Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2023

Bratislava
február 2024

Obsah

ČASŤ A
Výročná správa o činnosti organizácie za rok 2023

1. Základné údaje o organizácii
2. Vedecko-výskumná činnosť – projekty, výsledky
3. Medzinárodná vedecká spolupráca
4. Aplikácia výsledkov výskumu v praxi
5. Doktorandské štúdium a pedagogická činnosť
6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu
7. Vedecko-organizačné a popularizačné aktivity
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie
9. Aktivity v orgánoch SAV
10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv
11. Organizačné a právne zmeny v organizácii
12. Činnosť knižnično-informačného pracoviska organizácie
13. Nadácie a fondy pri organizácii
14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie
15. Iné významné činnosti organizácie SAV
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV
18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

PRÍLOHY K ČASTI A

A-1 Zoznam zamestnancov a doktorandov organizácie k 31.12.2023

A-2 Projekty riešené v organizácii

A-3 Publikačná činnosť organizácie

A-4 Údaje o pedagogickej činnosti organizácie

A-5 Medzinárodná mobilita organizácie

A-6 Vedecko-popularizačná činnosť pracovníkov organizácie

A-7 Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom

ČASŤ B
Výročná správa o hospodárení organizácie za rok 2023

19. Rámcové informácie o hospodárení organizácie
20. Ročná účtovná závierka
21. Výrok štatutárneho audítora k ročnej účtovnej závierke
22. Prehľad príjmov a výdavkov
23. Pohyb a konečný stav majetku
24. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
25. Ďalšie údaje o hospodárení organizácie

PRÍLOHY K ČASTI B

B-1 Správa štatutárneho audítora k ročnej účtovnej závierke

ČASŤ A

Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti organizácie za rok 2023

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav molekulárnej biológie SAV, v. v. i.
Riaditeľ: Ing. Eva Kutejová, DrSc.
1. zástupca riaditeľa: Ing. Daniela Krajčíková, CSc.
2. zástupca riaditeľa: Mgr. Pavol Pataky
Vedecký tajomník: RNDr. Lucia Bocánová, PhD.
Predseda vedeckej rady: Mgr. Ľuboš Kľučár, PhD.
Člen Snemu SAV: Mgr. Ľuboš Kľučár, PhD.
Adresa: Dúbravská cesta 21, 845 51 Bratislava 45

http://www.imb.savba.sk/

Tel.: 0259307411
E-mail: umbidir@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

Štruktúra zamestnancov	K	K		K do 35 rokov		F	P	T	O
		M	Ž	M	Ž				
Celkový počet zamestnancov	79	24	55	3	9	74	64.77	53.38	3
Vedeckí pracovníci	46	18	28	1	3	42	41.07	41.07	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	16	2	14	2	6	15	9.38	9.31	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	5	1	4	0	0	5	2.82	0	0

Odborní pracovníci ÚS	5	0	5	0	0	5	4.5	3	3
Ostatní pracovníci	7	3	4	0	0	7	7	0	0

[1] *odmeňovaní podľa 553/2003 Z.z., príloha č. 5*
[2] *odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4*

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2023 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
F – fyzický stav zamestnancov k 31.12.2023 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2023)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	6	12	1	0	6	9	3
Ženy	1	27	0	0	1	21	6

Tabuľka 1c Štruktúra pracovníkov podľa veku a rodu, ktorí sú riešiteľmi projektov

Veková štruktúra (roky)	**< 31**		**31-35**		**36-40**		**41-45**		**46-50**		**51-55**		**56-60**		**61-65**		**> 65**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Muži	3	2.0	0	0.0	3	2.1	3	3.0	0	0.0	3	3.0	2	2.0	5	5.0	0	0.0
Ženy	7	3.7	2	2.0	4	4.0	5	5.0	6	5.2	2	2.0	1	1.0	10	10.0	4	4.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2023

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	49.7	50.4	48.1
Ženy	48.3	48.3	48.3
Spolu	48.7	49.1	48.2

1.3. Iné dôležité informácie k základným údajom o organizácii a zmeny za posledné obdobie (v zameraní, v personálnej štruktúre a pod.)

Oddelenie „Biochémia a štruktúra proteínov“, vedúca Ing. Eva Kutejová, DrSc.

Oddelenie „Genomika a biotechnológie“, vedúci RNDr. Ján Kormanec, DrSc.
Oddelenie „Mikrobiálna genetika“, vedúci RNDr. Imrich Barák, DrSc.
Oddelenie „Mikrobiálna ekológia“, vedúci Dr. Domenico Pangallo, DrSc.

V rámci týchto oddelení vznikli dve nové pracovné skupiny. Dr. Jacob Bauer, PhD. a Mgr. Vladena Bauerová, PhD. požiadali o vytvorenie pracovnej skupiny „Proteínová kryštalografia a molekulová dynamika“, ktorá bude súčasťou oddelenia „Biochémia a štruktúra proteínov“. Vedúcim pracovnej skupiny sa stal Dr. Jacob Bauer PhD. Mgr. Ján Jamroškovič, PhD. požiadal o vytvorenie druhej pracovnej skupiny „Syntetická mikrobiológia“, ktorá bude súčasťou oddelenia „Mikrobiálna genetika“. Financovanie pracovnej skupiny Mgr. Jána Jamroškoviča, PhD. bude na obdobie piatich rokov (od 1.11.2023 do 31.10.2028) zabezpečené programom IMPULZ.

Vedecká rada Ústavu molekulárnej biológie SAV, v. v. i., (ďalej „VR“) pracovala v zložení: predseda Mgr. Ľuboš Kľučár, PhD., členovia RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST a prof. Ing. Štefan Janeček, DrSc., externými členmi boli Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD. a prof. RNDr. Ľubomír Tomáška, DrSc.

V roku 2023 VR zasadala prezenčne, resp. videokonferenčne, celkom desaťkrát a trikrát rozhodovala hlasovaním *per rollam*. VR zorganizovala pravidelné výročné stretnutie členov akademickej obce a jedno stretnutie s medzinárodným poradným organom, ktorého hlavným cieľom bolo zhodnotenie výsledkov akreditácie a príprava akčného plánu organizácie. Medzi hlavné témy, ktorými sa VR zaoberala na svojich stretnutiach patrili: personálne otázky (napr. vyjadrovanie sa k návrhom na predlžovanie pracovných zmlúv vedeckých a odborných zamestnancov), schvaľovanie návrhov na získanie vyššieho kvalifikačného stupňa, hodnotenie vedeckej výkonnosti pracovných skupín a jednotlivcov, príprava a schvaľovanie záverečnej/výročnej správy organizácie, pohovory s uchádzačmi o doktorandské štúdium, schvaľovanie návrhov na motivačné štipendiá, schvaľovanie návrhov na udeľovanie významných ocenení a vyjadrovanie sa k organizačným zmenám ÚMB SAV, v. v. i.

Správna rada Ústavu molekulárnej biológie SAV, v .v. i., (ďalej „SR“) pracovala v zložení: predsedníčka Ing. Eva Kutejová, DrSc., členovia RNDr. Gabriela Bukovská, CSc., RNDr. Vladimír Pevala, PhD., Ing. Daniela Krajčíková, CSc. a RNDr. Mária Bučková, PhD.

SR sa v priebehu roka 2023 zišla 13-krát, z toho 8-krát prezenčne a 5 krát hlasovala formou *per rollam,* kde schvaľovala hlavne žiadosti o presun finančných prostriedkov v rámci jednotlivých kategórii rozpočtu. Na zasadnutiach sa členovia SR vyjadrovali k finančnému zabezpečeniu ÚMB SAV, v. v. i, prerokovali viaceré možnosti šetrenia finančných výdavkov a zabezpečenie šetrenia energií v roku 2023 a v ďalších rokoch. Prioritou bola výmena starých plynových kotlov za nové úspornejšie, prerokovali pripravovaný projekt realizácie zateplenia budovy B, vyjadrovali sa k ďalším potenciálnym projektom ako napr. výmena rozvodov a stupačiek v budove A, výmena osvetlenie na chodbách za úspornejšie, ako aj prípadné zateplenie strechy budovy A. Výsledkom bol dokument, ktorý Správna rada začiatkom roka schválila „Obnova budov v rámci Plánu obnovy a odolnosti a prevádzkové opatrenia zameraných na úsporu energií a výdavkov na teplo a TÚV v rámci ÚMB SAV na roky 2023 a 2024“, a bol zaslaný na P SAV ako informácia o aktuálnom prehľade opatrení. SR prerokovala účtovnú závierku za rok 2022, vyjadrila sa k Výročnej správe o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022, prerokovala a schválila poplatky za patentové listiny pre udelené patenty s číslom žiadosti: PP 50015-2019 (Dr. Zámocký) a PP 50075-2020 (Dr. Bukovská) a ďalší postup a poplatky v spojení s medzinárodnou patentovou prihláškou PCT/SK2021/050016 (Dr. Bukovská). SR dala súhlas s nákupom hlboko mraziaceho zariadenia pre Dr. Jamroškoviča z projektu číslo: IM-2022-62 (IMPULZ) z položky Kapitálové prostriedky; dala súhlas so zriadením novej pracovnej skupiny J. Jamroškoviča a pracovnej skupiny J. Bauera. SR prerokovala hospodárenie s finančnými prostriedkami ústavu v roku 2023a schválila

zámer „Oprava havarijného stavu rozvodov studenej a teplej vody v budove 2 (B) na základe ponuky a objednávky.

Členmi Dozornej Ústavu molekulárnej biológie SAV, v .v. i., rady ústavu boli prof. RNDr. Ľubica Lacinová, DrSc., prof. RNDr. Anton Horváth, CSc. a Ing. Veronika Púčiková.
Dozorná rada sa v priebehu roka 2023 stretla raz prezenčne a dvakrát hlasovala *per rollam*. Na zasadnutí odsúhlasila predložený zámer na vydanie stavebného povolenia ÚMB SAV, v. v. i., vyjadrila súhlas s účtovnou uzávierkou ÚMB SAV, v. v. i. za rok 2022, prerokovala a jednomyseľne súhlasila s Výročnou správou za rok 2022 bez pripomienok.

Medzinárodný vedecký poradný zbor (International Scientific Advisory Board) pracoval v zložení: predseda prof. Antony J. Wilkinson, University of York, York, Spojené kráľovstvo a členovia prof. Erik Bongcam-Rudloff, Swedish University of Agricultural Sciences, Uppsala, Švédsko a prof. Karin Birte Svensson, Technical University of Denmark, Kodaň, Dánsko.

V roku 2023 nastala zmena vo vedení Ekonomického oddelenia, novým vedúcim Ekonomického oddelenia sa stal Mgr. Pavol Pataky. Okrem toho došlo aj k ďalším personálnym zmenám, k 31.12.2023 odišli do dôchodku RNDr. Peter Ferianc, CSc. a RNDr. Jarmila Farkašovská, CSc. Do pracovnej skupiny „Apidológia a apiterapia“ bola prijatá Mgr. Marcela Bučeková, PhD. V tomto roku získala Štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine RNDr. Tetiana Moskalets PhD. , ktorá sa zapojila do projektov pracovnej skupiny „Molekulárna imunológia“.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	13	1	120654	120654	8337	8337	5972	-
2. Projekty APVV	10	6	-	-	343751	266048	-	82186
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	2	1	-	-	55150	55150	-	183000
4. Projekty SASPRO, MoRePro, IMPULZ	1	0	31300	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	2000	2000	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2023

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2023	-	5	11
2. Projekty výziev EŠIF podané r. 2023	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2023

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
	A	B	Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organi-záciu	Spolu	Pre organi-záciu		
1. Projekty Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	3	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	3000	3000	-	-	-	-
7. Bilaterálne projekty ostatné	1	1	-	-	24996	24996	-	5000
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2023

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

	A	B
Počet podaných projektov Horizont Európa		1

A - organizácia je nositeľom projektu
B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

2.2.3. Zámery na čerpanie Európskych štrukturálnych a investičných fondov v ďalších výzvach

V roku 2024 sa Ústav molekulárnej biológie SAV, v. v. i. plánuje zapojiť do výzvy Horizont Creative Europe a Interreg Central Europe, prípadne do ďalších aktuálnych výziev.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023

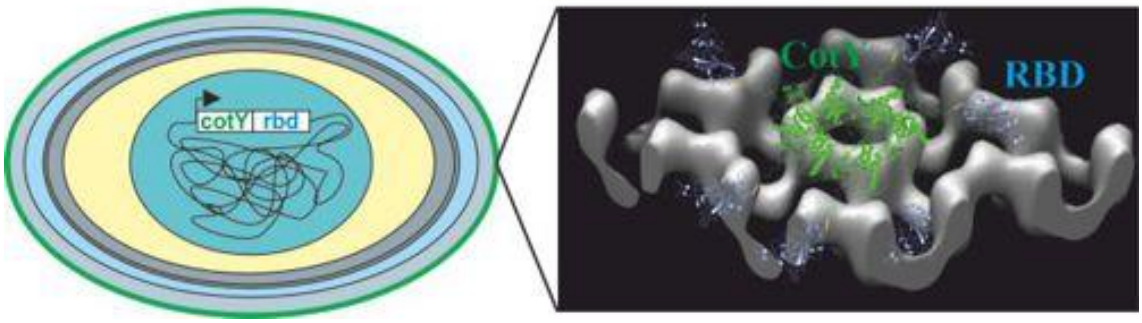
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

A. Geneticky upravené bakteriálne spóry ako potenciálne orálne vakcíny proti SARS-CoV-2 a iným patogénom

Autori (za ÚMB SAV): A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, I. Barák

Spóry *Bacillus subtilis* sa považujú za účinné a užitočné nástroje na povrchové naviazanie rôznych proteínov. V rámci štúdia, sa pripravili rekombinantné spóry s naviazanou doménou "spike" proteínu SARS-CoV-2 vo fúzii s obalovými proteínmi spór CotZ a CotY. Pri zvažovaní, či by takéto rekombinantné spóry *B. subtilis* boli vhodné na vývoj orálnej vakcíny, hovorí v ich prospech niekoľko faktorov. Po prvé, *B. subtilis* je považovaný za všeobecne bezpečný mikroorganizmus a používa sa aj ako probiotikum. Po druhé, spóry môžu prežiť drsné prostredie v gastrointestinálnom trakte spôsobené žalúdočnými kyselinami, a preto sú ideálnym prostriedkom na perorálne podávanie vakcín. Výsledky uvedené v práci naznačujú, že rekombinantné spóry s naviazanými proteínmi na obalové proteíny CotY a CotZ by mohli mať široké využitie pre vývoj nových perorálnych vakcín nielen proti SARS-CoV-2 vírusu ale aj proti ďalším novo objavujúcim sa život ohrozujúcim vírusom a baktériám.



Projekty

1. VEGA 2/0001/21 - Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis.
2. APVV-18-0104 - Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry

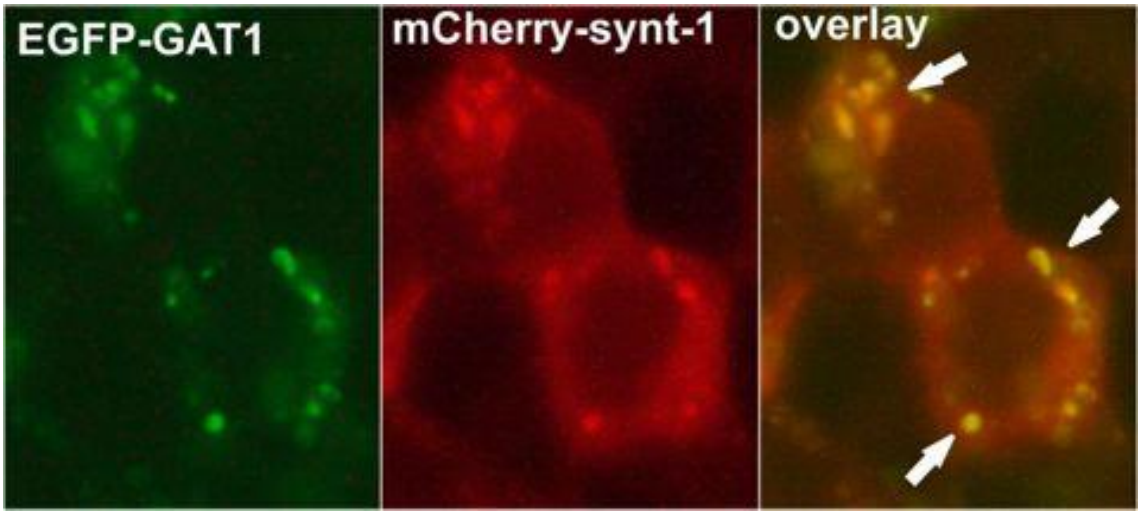
Výstupy

1. VETRÁKOVÁ, Andrea - KALIANKOVÁ-CHOVANOVÁ, Romana - RECHTORÍKOVÁ, Radoslava - KRAJČÍKOVÁ, Daniela - BARÁK, Imrich**. Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. In Computational and Structural Biotechnology Journal, 2023, vol. 20, pp. 1550-1556. (2022: 6 - IF, Q1 - JCR, 1.579 - SJR, Q1 - SJR). ISSN 2001-0370. Dostupné na: https://doi.org/10.1016/j.csbj.2023.02.007

B. Úloha PDZ interakcií v regulácii GABA transportéra GAT1 a proteínu E u vírusov SARS COV, SARS-COV2 a MERS-COV

Autori (za ÚMB SAV): M. Baliová, I. Jahodová, F. Jurský

PDZ interakcie sú dôležitým nástrojom regulácie bunkových signálnych dráh a zohrávajú tiež dôležitú úlohu v infekcii vírusov. V našej práci sme identifikovali PDZ interakciu C-terminálneho úseku GABA transportéra GAT1 s PDZ proteínom Syntenín 1. Interakciu sme potvrdili na úrovni rekombinantných proteínov, ako aj v neuroblastómových bunkách N2a. Interakcia pravdepodobne zohráva úlohu v regulácii aktivity GAT1 regulovaním expresie transportéra na povrchu neurónov. Zistili sme tiež veľký rozdiel v intenzite a promiskuite PDZ interakcií proteínu E vírusov SARS COV1,2 a MERS COV s multi PDZ proteínom MUPP1. Výrazne zvýšená PDZ interaktivita MERS-COV koreluje so signifikantne väčšou úmrtnosťou, čo znamená že PDZ interakcie proteínu E môžu prispievať k zvýšenej dezintegrácii niektorých bunkových signálnych dráh a vyššej letalite vírusu MERS-COV.



Projekty

1. VEGA 2/0127/21 - Regulácia interakčnej špecificity multi-PDZ proteínov.

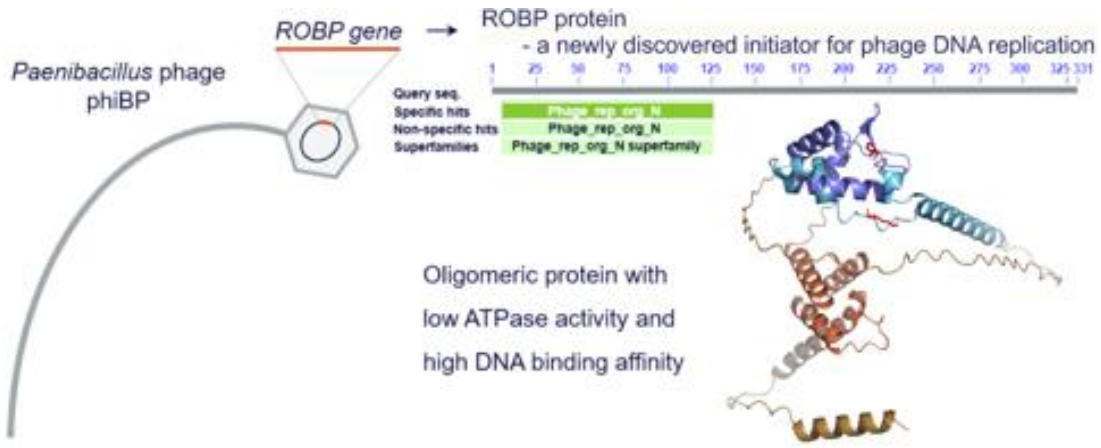
Výstupy

1. JAHODOVÁ, Iveta - BALIOVÁ, Martina** - JURSKÝ, František**. PDZ interaction of the GABA transporter GAT1 with the syntenin-1 in Neuro-2a cells. In Neurochemistry International, 2023, vol. 165, art. no. 105522. (2022: 4.2 - IF, Q2 - JCR, 0.958 - SJR, Q2 - SJR). ISSN 0197-0186. Dostupné na: https://doi.org/10.1016/j.neuint.2023.105522
2. BALIOVÁ, Martina - JAHODOVÁ, Iveta - JURSKÝ, František**. A Significant Difference in Core PDZ Interactivity of SARS?CoV, SARS?CoV2 and MERS?CoV Protein E Peptide PDZ Motifs In Vitro. In Protein Journal, 2023, vol. 42, no. 4, p. 253-262. (2022: 3 - IF, Q3 - JCR, 0.853 - SJR, Q1 - SJR). ISSN 1572-3887. Dostupné na: https://doi.org/10.1007/s10930-023-10103-x (Vega č. 2/0127/21 : Regulácia interakčnej špecificity multi-PDZ proteínov)

C. Charakterizácia novo identifikovaného pravdepodobného iniciátora DNA replikácie z bakteriofága phiBP

Autori (za ÚMB SAV): G. Bukovská, N. Halgašová, R. Javorová, L. Bocánová, D. Krajčíková, J.A. Bauer

Pre replikáciu fágovej DNA sú potrebné vlastné proteíny fága spolu s proteínmi bakteriálneho hostiteľa. Charakterizovali sme nový iniciačný replikačný proteín ROBP fága phiBP z kmeňa Paenibacillus polymyxa. Rekombinantný proteín divého typu gpRO-HC sa vyznačoval nízkou ATPázovou aktivitou bez ohľadu na prítomnosť DNA, ktorá sa významne zvýšila po zámene lyzínu v polohe 8 za alanín. Je možné, že dôsledkom mutácie bolo oslabenie fosfátovej vodíkovej väzby a zvýšenie disociačnej rýchlosti. Proteín gpRO-HC sa účinne viazal na rôzne jedno- a dvojvláknové DNA substráty a vytváral veľké oligomérne komplexy s približným počtom podjednotiek 12. Bioinformatickou analýzou sme zistili v nukleotidovej sekvencii génu ROBP priame a nepriame opakovania, ktoré sa často vyskytujú v mieste počiatku replikácie DNA. Prítomnosť replikačného počiatku v rámci génovej sekvencie iniciačného proteínu je typická pre fágy s théta mechanizmom replikácie, ktorý pravdepodobne používa aj fág phiBP.



Projekty

1. VEGA 2/0079/22 - Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál.

Výstupy

1. HALGAŠOVÁ, Nora - JAVOROVÁ, Rachel - BOCÁNOVÁ, Lucia - KRAJČÍKOVÁ, Daniela - BAUER, Jacob - BUKOVSKÁ, Gabriela**. Characterization of a newly discovered putative DNA replication initiator from Paenibacillus polymyxa phage phiBP. In Microbiological Research, 2023, vol. 274, art. no. 127437. (2022: 6.7 - IF, Q1 - JCR, 1.168 - SJR, Q1 - SJR). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2023.127437

2.3.2. Výsledky aplikačného typu

A. Stratégia molekulárnej a enzymatickej ochrany nášho kultúrneho dedičstva

Autori: Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Rusková, M., Kvalová, K., Kraková, L., Bučková, M., Pangallo, D.

Na zachovanie kultúrneho dedičstva pre budúce generácie je dôležité nájsť nové spôsoby ochrany historických a umeleckých objektov pred procesom biodeteriorácie. Využili sme molekulárne prístupy založené na sekvenovaní tretej generácie (MinION) a bioinformatické postupy na hlbšie porozumenie mikrobiálnej pigmentácie historických kníh a archívnych dokumentov. Sekvenovanie odhalilo zložité biologické vzťahy medzi hubami a baktériami prítomnými na objektoch a v okolitom vzduchu, čím sme rozšírili poznatky o prispievateľoch k pigmentácii a poškodzovaniu nášho písomného dedičstva. Ďalším dôležitým aspektom v súvislosti so zachovaním nášho kultúrneho dedičstva je vypracovanie stratégií pre obnovu poškodených položiek. Vyvinuli sme praktickú metódu s využitím extracelulárnej enzymatickej zmesi mikroorganizmov (EEM) na odstránenie pečiatok z kníh. Tento objav je zvlášť hodnotný pre konzervátorov v knižniciach, kde odstránenie inštitucionálnych pečiatok predstavuje prvý krok v procese reštaurovania.

Projekty

1. APVV-19-0059 - Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním.

Výstupy

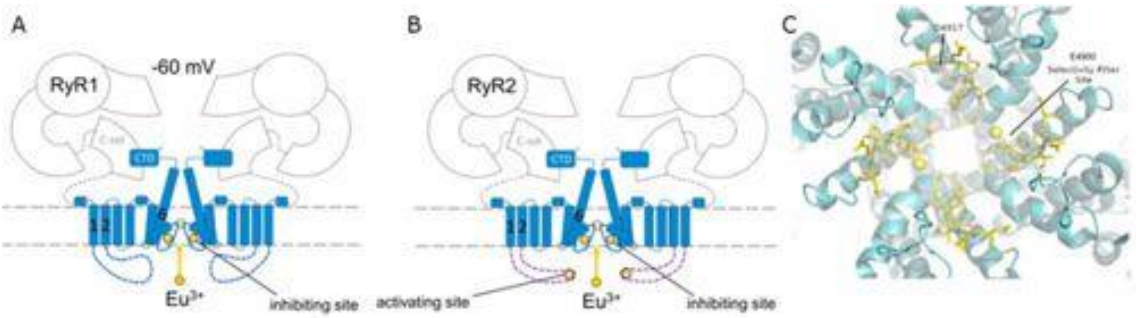
1. PAVLOVIĆ, Jelena - PUŠKÁROVÁ, Andrea - PLANÝ, Matej - FARKAS, Zuzana - RUSKOVÁ, Magdaléna - KVÁLOVÁ, Katarína - KRAKOVÁ, Lucia - BUČKOVÁ, Mária - PANGALLO, Domenico**. Colored stains: Microbial survey of cellulose-based and lignin rich papers. In International Journal of Biological Macromolecules, 2023, vol. 241, art. no. 124456. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124456
2. FARKAS, Zuzana - PUŠKÁROVÁ, Andrea - OPÁLKOVÁ ŠIŠKOVÁ, Alena - POLJOVKA, Andrej - ZÁMOCKÝ, Marcel - VADKERTI, Eva - URÍK, Martin - FARKAS, Bence - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Evaluation of enzymatic stamp removal startegies on handmade (cellulose-based) and machine-made (lignin-containing) papers. In International Journal of Biological Macromolecules, 2023, vol. 242, art. no. 124599. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124599

2.3.3. Výsledky na báze medzinárodnej spolupráce

A. Detekcia dvoch funkčne odlišných luminálnych Ca2+-väzbových miest u ryanodínových receptorov: objasnenie rozdielnej regulácie otvárania a zatvárania RyR1 a RyR2 kanála

Autori (za ÚMB SAV): V. Bauerová-Hlinková, J. Bauer

Ryanodínové receptory (RyR) sú vápnikové kanály, ktoré sú regulované väzbou Ca2+ na cytoplazmatickej a luminálnej strane (orientovanej do vnútra sarkoplazmatického retikula). Narušenie tejto regulácie spôsobuje zmenu funkcie RyR, čo podmieňuje viaceré ochorenia kostrového (malígna hypertermia, ochorenie centrálnych jadier) a srdcového svalu (arytmie). V tejto práci sme objasnili luminálnu reguláciu RyR1 a RyR2 izoforiem pomocou Eu3+ a navrhli lokalizáciu Ca2+ väzbových miest (obrázok). Výsledky ukazujú rozdielny spôsob luminálnej regulácie pri RyR1 a RyR2; pri vyššej koncentrácii Ca2+ (aj Eu3+) je RyR2 aktivovaný, kdežto RyR1 je inhibovaný. Štúdium RyR1 Y524S mutácie, ktorá je asociovaná s malígnou hypertermiou (MH), ukázalo rovnakú citlivosť luminálnej regulácie Ca2+ ako pri natívnom RyR1, čo naznačuje, že MH pri tejto mutácii nie je spôsobená zmenenou luminálnou reguláciou Ca2+. Tieto výsledky boli získané v rámci medzinárodnej spolupráce s Jánosom Almássym, Semmelweis University,



Budapešť, Maďarsko.

Projekty

1. VEGA 2/0131/20 - Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2.

Výstupy:

1. MAGYAR, Zsuzsanna E. - BAUER, Jacob - BAUEROVÁ-HLINKOVÁ, Vladena - JÓNA, István - GABURJÁKOVÁ, Jana - GABURJÁKOVÁ, Marta - ALMÁSSY, János**. Eu3+ detects two functionally distinct luminal Ca2+ binding sites in ryanodine receptors. In Biophysical Journal, 2023, vol. 122, no. 17, pp. 3516-3531. (2022: 3.4 - IF, Q2 - JCR, 1.216 - SJR, Q1 - SJR). ISSN 0006-3495. Dostupné na: https://doi.org/10.1016/j.bpj.2023.07.029

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2023/ doplnky z r. 2022
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**0 / 0**
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	**0 / 0**
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	**0 / 0**
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	**1 / 0**
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	**0 / 0**
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	**0 / 0**
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	**19 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**14 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**9 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**1**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

Evidujú sa len tie práce zamestnancov a doktorandov, v ktorých je uvedená afiliácia k organizácii

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2022 (zdroj JCR) *Počet článkov / doplnky*	17 / 0	11 / 0	1 / 0	2 / 0	31 / 0
Podľa SJR z r. 2022 (zdroj Scimago) *Počet článkov / doplnky*	28 / 0	2 / 0	2 / 0	1 / 0	33 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2022/ doplnky z r. 2021
Citácie vo WOS (1.1, 2.1)	1517 / 11
Citácie v SCOPUS (1.2, 2.2)	163 / 65
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	46
Prednášky a vývesky na národných vedeckých podujatiach	17

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Barak, I.: What we know about bacterial nanotubes?. *Seminar series of Department of Medical Biochemistry and Biophysics of Umea University*, Umea, Sweeden, 22-24 May 2023.
2. Bauerova-Hlinkova, V., Hromadkova, T., Kutejova, E., Bauer, J.: The effect of the central-helix mutations on the stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2. *12TH INTERNATIONAL CONFERENCE STRUCTURE & STABILITY OF BIOMACROMOLECULES*, Košice, Slovakia, 5-7 Sep 2023.
3. Bauerova-Hlinkova, V., Kutejova, E., Bauer, J.: Differences in stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2 induced by central helix mutations. *The 8th International Scientific Conference Applied Natural Sciences 2023*, Donovaly, Slovakia, 18-20 Sep 2023.
4. Leksa, V.: Lactoferrin - the alarmin which knows when is a time to kill and a time to heal. *13TH C1-INHIBITOR DEFICIENCY & ANGIOEDEMA WORKSHOP*, Budapest, Hungary, 4-7 May 2023.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2023

2.7.1. Vynálezy, na ktoré bol v roku 2023 udelený patent

a) na Slovensku

Názov vynálezu: Spôsob produkcie rekombinantnej hypertermofilnej katalázy-peroxidázy v bunkách Escherichia coli
Číslo patentu: P289111
Dátum priority: 11.8.2019
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie Slovenskej akadémie vied, verejná výskumná inštitúcia, Bratislava, SK; Univerzita Komenského v Bratislave, Bratislava, SK
Pôvodcovia vynálezu: Zámocký Marcel, Stuchlík Stanislav, Struhárňanská Eva, Levarski Zdenko, Turňa Ján,

Názov vynálezu: Antimikrobiálny proteín, antimikrobiálny rekombinantný proteín s lytickými vlastnosťami, expresný vektor, spôsob ich prípravy a použitie
Číslo patentu: P289101
Dátum priority: 17.12.2020
Majiteľ / spolumajiteľ: Ústav molekulárnej biológie Slovenskej akadémie vied, verejná výskumná inštitúcia, Bratislava, SK; Univerzita Komenského v Bratislave, Bratislava, SK;
Pôvodcovia vynálezu: Bukovská Gabriela, Bocánová Lucia, Halgašová Nora, Kajsiková Mária, Drahovská Hana

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2023

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT
Názov vynálezu: Antimicrobial protein, antimicrobial recombinant protein with lytic properties, expression vector, method of their preparation and use
Číslo patentu:
Dátum priority: 17.12.2020
Majiteľ / spolumajiteľ: Institute of Molecular Biology SAS/ Comenius University in Bratislava
Pôvodcovia vynálezu: Bukovská Gabriela, Bocánová Lucia, Halgašová Nora, Kajsiková Mária, Drahovská Hana

d) EP

e) v iných krajinách v rámci tzv. národnej fázy po PCT, resp. po validácii EP

Názov vynálezu: New systems for producing recombinant proteins. International patent.
Krajina: Európska únia
Číslo prihlášky: Patent application WO/2023/285135
Dátum priority: 17.1.2023
Majiteľ / spolumajiteľ: Nemysis Ltd, Ireland
Pôvodcovia vynálezu: Kormanec Ján, Homerová Dagmar, Cavaletti Linda, Carenzi Giacomo

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2023

b) udelené v roku 2023

2.7.4. Realizované vynálezy

a) predané patenty resp. prihlášky vynálezov (v prípade úplnej zmeny majiteľa patentu)

b) predané licencie (v prípade že majiteľom ostáva organizácia SAV)

Finančný prínos pre organizáciu SAV v roku 2023 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Účasť expertov na hodnotení národných projektov (APVV, VEGA a iných)

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Zámocký Marcel	APVV/Slovensko-Izrael RD 2023	1
	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

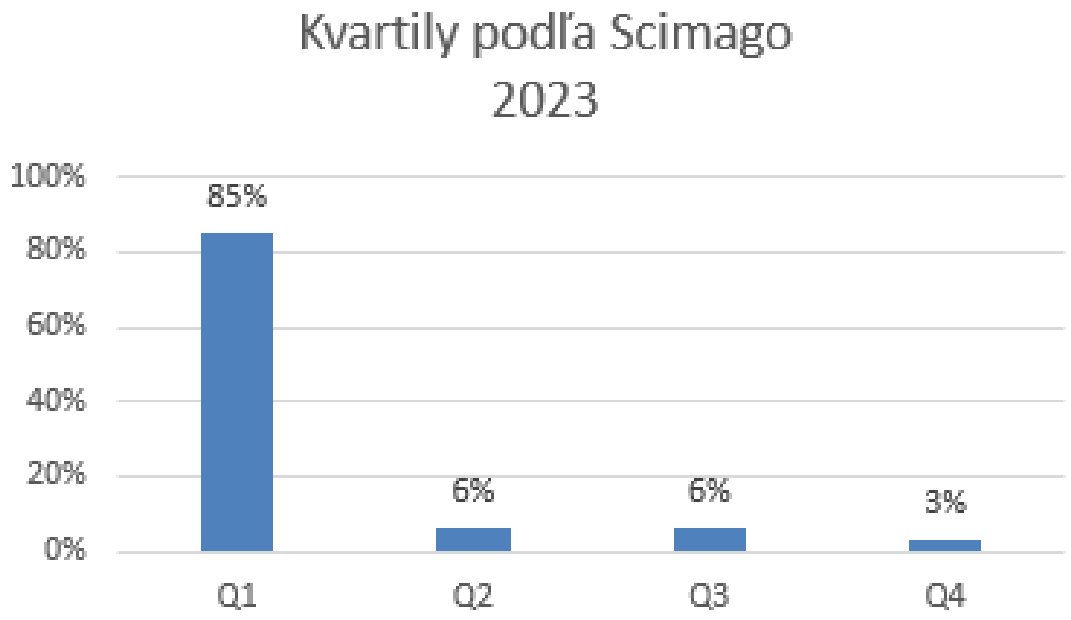
Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Barák Imrich	0	0	5	0	0	0	0
Janeček Štefan	0	0	20	0	0	0	0
Kľučár Ľuboš	0	0	4	0	0	0	0
Majtán Juraj	0	0	35	0	0	0	0
Urbániková Ľubica	0	0	1	0	0	0	0
Zámocký Marcel	0	0	7	0	0	0	0
Spolu	**0**	**0**	**72**	**0**	**0**	**0**	**0**

2.11. Iné informácie k vedecko-výskumnej činnosti.

Na ÚMB SAV, v. v. i., sa dlhodobo orientujeme na výskum, ktorý vedie k publikáciám v kvalitných zahraničných periodikách s vyšším IF a so zameraním na lepšiu citovanosť, čo sa premieta do veľmi dobrého medzinárodného postavenia ústavu a do kvalitnej medzinárodnej spolupráce. V roku 2023 vedeckí pracovníci ústavu publikovali celkovo 33 impaktovaných vedeckých publikácií. Zaradenie časopisov podľa kvartilov potvrdzuje vysokú kvalitu našich publikácií. V 1. a 2. kvartile

Scimago je 91 % našich publikácií (85 % z nich spadá do 1. kvartilu a 6 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2022 (vykazované v roku 2023) sme dosiahli 1528 ohlasov (WOS a SCOPUS).



ÚMB SAV, v. v. i., sa aj v roku 2023 podieľal na vedeckých aktivitách súvisiacich s bojom proti pandémii COVID-19. Pracovná skupina RNDr. Imricha Baráka, DrSc., začlenená do špecifickej celosvetovej výzvy European XFEL s názvom „*New structures to fight COVID-19 solved by liquid jet SFX at the European XFEL*“, pokračovala aj v roku 2023 na riešení projektu zameraného na prípravu a analýzu kokryštálov proteáz SARS-Cov-2 s potenciálnymi inhibítormi. Okrem toho spóry *Bacillus subtilus* boli použité ako možné orálne vakcíny umiestnením RBD domény spike proteínu Sars-CoV-2 na povrch spór. Skupina RNDr. Vladimíra Leksu, PhD. v spolupráci so skupinou Dr. Anna Ohradanova-Repic na Lekárskej fakulte vo Viedni pracujú na vývoji liečiva na COVID-19. Tejto pracovnej skupine sa podarilo získať doktorandský štipendijný projekt „Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu“ z Plánu obnovy EÚ. Pracovná skupina Dr. Domenica Pangalla, DrSc. pracovala na optimalizácii citlivej metódy OSN-qRT-PCR určenej na detekciu SARS-CoV-2 v odpadových vodách.
ÚMB SAV, v. v. i., pokračuje vo svojich medzinárodných vedeckých aktivitách. Je zapojený do projektu Európskeho XFEL-u (X-ray Free Electron Laser) v Hamburgu, ktorý by mal revolucionizovať štrukturálnu biológiu nielen na Slovensku, ale aj vo svete. Pracovníci ústavu pracujú v orgánoch SFX/SPB a XBI konzorcií, alebo ako vedeckí pracovníci XFEL-u. Zúčastnili sa aj na meraniach v rámci projektu, kde hlavným riešiteľom bol RNDr. Imrich Barák, DrSc. a týkal sa 2D kryštálov spórových obalových proteínov.
ÚMB SAV, v. v. i., bol v roku 2023 zapojený do riešenia troch COST projektov. V roku 2023 sa ukončilo riešenie projektu ML4Microbiome (CA18131 – „Statistical and machine learning techniques in human microbiome studies“), do ktorej bol zapojený Mgr. Ľuboš Kľučár, PhD. z bioinformatickej pracovnej skupiny. Naša organizácia sa zapojila do dvoch nových projektov: „BeSafeBeeHoney (CA22105 - BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY)“ a „NETSKINMODELS (CA21108 - European Network for Skin Engineering and Modeling)“ - obidva v rámci spolupráce skupiny „Apidológie a apiterapie“ Ing. Juraja Majtána, DrSc., MBA, FIFST.

Naša organizácia je medzinárodne etablovaná aj vďaka vedeckým databázam vytvoreným a spravovaným Oddelením genomiky a biotechnológií ÚMB SAV, v. v. i. Užitočnosť týchto databáz sa neprejavuje počtom citácií, ale počtom webových prístupov. Naše databázy zaznamenali vysoký počet unikátnych webových návštevníkov, z nich najvyšší dosiahla pravidelne aktualizovaná databáza viruSITE (www.virusite.org) - vyše 1800 unikátnych návštevníkov za rok 2023.
Jasným zviditeľnením medzinárodného postavenia ÚMB SAV, v. v. i., je aj skutočnosť, že mnohí naši vedeckí pracovníci sú oslovovaní editormi z renomovaných zahraničných vedeckých časopisov a v roku 2023 recenzovali 72 publikácií (WOS, Scopus). Ako experti sa zúčastňujú aj hodnotenia medzinárodných projektov.
ÚMB SAV, v. v. i., bol na národnej úrovni zapojený do projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom“. Projekt sa v roku 2023 ukončil a jeho partnermi boli GENETON s. r. o., Chemický ústav SAV, v. v. i., MEDIREX GROUP ACADEMY, n. o., POWERTEC, s. r. o., Slovgen, s. r. o., a Univerzitná nemocnica s poliklinikou Milosrdní bratia. Projekt sa venoval výskumu a vývoju v oblasti problematiky dedičných nádorov spôsobených Lynchovým syndrómom a predpokladaného genetického pozadia vyššieho výskytu vybraných typov nádorov v slovenskej populácii. Náš ústav participoval na štúdiu črevného mikrobiómu pacientov s kolorektálnym karcinómom a ľudí s Lynchovým syndrómom.
Pokračovalo sa v poskytovaní služieb v kryštalizačnom laboratóriu vybudovanom v rámci medzinárodného projektu Interreg SK-AT „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“.
Skupina „Apidológie a apiterapie“ pod vedením Ing. Juraja Majtána, DrSc., MBA, FIFST pokračovala v projekte Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a v tomto roku zaznamenala zvyšujúci sa záujem, hlavne drobných včelárov. Aktivity projektu „Medové laboratórium“ sa dostávajú aj do európskeho, či medzinárodného priestoru, čo viedlo k podpisu memoranda o spolupráci s talianskou organizáciou ASSOciazione Apistica Naturale Italiana s cieľom podpory výskumu medu a prípravy nového medu medicínskej kvality. Spolupráca na analýze vzoriek medu s centrom pre včelárenie ADECAL TECHNOPOLE na Novej Kaledónii v roku 2023 bola zavŕšená publikovaním spoločného vedeckého článku v časopise Plos One. Spolupráca vo výskume medu a jeho aplikácii bude pokračovať aj v nasledujúcom období.
Mgr. Naďa Labajová, PhD. z Oddelenia „Mikrobiálnej genetiky“ získala *Fulbright Visiting Scholar fellowship* a absolvovala od júla do decembra 2023 stáž v skupine prof. Williama Shiha na The Wyss Institute for Biologically Inspired Engineering, Harvard University, Boston, USA. Nadviazala tiež spoluprácu s laboratóriom prof. Mahmouda L. Nasra, Brigham and Women's Hospital, Harvard Medical School, Boston, USA

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2023 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2024 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Bauerová Vladena	0	1	0
Spolu	0	1	0

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch SR

Mgr. Vladena Bauerová, PhD.

Česká a Slovenská kryštalografická spoločnosť (funkcia: člen)
Česká společnost pro strukturní biologii (funkcia: člen)

Mgr. Gábor Beke, PhD.

International Society for Computational Biology (ISCB) (funkcia: člen)

RNDr. Lucia Bocánová, PhD.

The European Society of Clinical Microbiology and Infectious Diseases (ESCMID) (funkcia: člen)

RNDr. Gabriela Bukovská, CSc.

European Federation of Biotechnology (funkcia: člen)
International Society for Viruses of Microorganisms (funkcia: člen)

Mgr. Milan Hučko

International Society for Computational Biology (ISCB) (funkcia: člen)

Mgr. Ľuboš Kľučár, PhD.

EMBnet (funkcia: manažér Národného uzla)

Mgr. Vladimír Leksa, PhD.

Rakúska spoločnosť pre alergológiu a imunológiu - OEGAI (funkcia: člen)

Ing. Juraj Majtán, DrSc., MBA, FIFST

International Honey Commission (funkcia: člen)

RNDr. Ľubica Urbániková, CSc.

Česká a slovenská kryštalografická spoločnosť (funkcia: člen vedeckej rady)

RNDr. Marcel Zámocký, DrSc.

RedoxiBase (funkcia: administrátor)

3.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Barák Imrich	Polish NCN/Preludium Bis call	7
Bukovská Gabriela	Ministerstvo zdravotnictví ČR - Biomedicínske technológie	1
Kutejová Eva	The French National Research Agency (ANR)	1

3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

Pracovná skupina „Fylogenomickej ekológie“ pod vedením RNDr. Marcela Zámockého, DrSc. rozbehla spolupráce s ústavom CSIC v Madride – zodpovedná osoba Dr. Romero Guzmán, nosnou témou sú hémové peroxygenázy. Pripravili projekt, ktorý bol v rámci MVTS schválený v decembri 2023 pod referenciou BILAT23032.

Pracovná skupina „Bioinformatika“ sa v roku 2022 zapojila do medzinárodného COST programu ML4Microbiome (CA18131) „Statistical and machine learning techniques in human microbiome studies“, v rámci ktorého sa Mgr. Ľuboš Kľučár, PhD. stal národným koordinátorom tohto projektu. Spolupráca bola zameraná na perspektívne pokročilé výpočtové metódy strojového učenia pre potreby analýz širokého spektra dát ľudského mikrobiómu. Výstupom spolupráce je publikacia v časopise Frontiers in Microbiology (2023).

Pracovná skupina „Environmentálna a potravinová mikrobiológia“ pod vedením Dr. Domenica Pangalla, DrSc. sa zapojila do projektu MOST 108-2221-E-006 -160 -MY3, „Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémii“. Vo svojej práci sa členovia skupiny pokúsili zvýšiť citlivosť qRT-PCR vyvinutím jednokrokového vnoreného testu qRT-PCR s jednou skúmavkou (OSN-qRT-PCR). Vyvinuli dva varianty testov, orientované na gén nukleokapsidového fosfoproteínu (N) a gén spike proteínu (S). V rámci projektu sa porovnala výkonnosť konvenčných testov PCR s reverznou transkripciou v reálnom čase (qRT-PCR) orientovaných na tieto gény s dvoma novými testami OSN-qRT-PCR. Dokončili sa analýzy vysokovýkonným sekvenovaním na báze MinION na identifikáciu mikrobioty a rezistómu vo vzorkách odpadových vôd. Mgr. Andrea Puškárová, PhD. z tejto pracovej skupiny je koordinátorkou bilaterálneho projektu SAS-CNR

“Vysokovýkonné sekvenovanie mikrobiómu listovej zeleniny pripravenej priamo na konzumáciu: optimalizácia protokolov dlhého čítania a bioinformatických výpočtových procesov“.
Z pracovnej skupiny „Mikrobiálnej genetiky“ pod vedením RNDr. Imricha Baráka, DrSc získala Fulbright Visiting Scholar fellowship Mgr. Naďa Labajová, PhD. a absolvovala od 1.7.2023 - 30.11.2023 stáž na pracovisku The Wyss Institute for Biologically Inspired Engineering at Harvard University, Boston, USA v skupine Prof. Williama Shih. Nadviazala tiež spoluprácu s laboratóriom Prof. Mahmouda L. Nasr, Brigham and Women's Hospital, Harvard Medical School, Boston, USA.
Pracovná kupina „Apidológie a apiterapie“ pod vedením Ing. Juraja Majtána, DrSc., MBA, FIFST úspešne pokračovala v projekte Medové laboratórium. Pracovné aktivity projektu sa dostávajú aj do európskeho, či medzinárodného priestoru, čo viedlo k podpisu memoranda o spolupráci s talianskou organizáciou ASSOciazione Apistica Naturale Italiana s cieľom podpory výskumu medu a príprave nového medu medicínskej kvality. Spolupráca na analýze vzoriek medu s centrom pre včelárenie ADECAL TECHNOPOLE na Novej Kaledónii v roku 2023 bola zavŕšená publikovaním spoločného vedeckého článku v časopise Plos One. Spolupráca vo výskume medu a jeho aplikácii bude pokračovať aj v nasledujúcom období. Získali dva COST projekty: „BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY“ (zodpovedný riešiteľ Ing. Juraja Majtána, DrSc., MBA, FIFST) a „NETSKINMODELS (CA21108 - European Network for Skin Engineering and Modeling)“. Vrámci zahraničnej spolupráce sa zapojili do podania projektu HORIZONT HORIZON-MSCA-2023-DN-01 (MSCA Doctoral Networks 2023) Topic: HORIZON-MSCA-2023-DN-01-01 Type of Action: HORIZON-TMA-MSCA-DN Proposal number: 101169084 Proposal acronym: BEE HEALTHY.
Pracovná skupina „Molekulárna imunológia“ pod vedením RNDr. Vladimíra Leksu, PhD. sa zapojila do riešenia projektov Plánu obnovy EÚ. Získali 2 projekty. Prvý, štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine (09I03-03-V01-00113), kde zodpovedný riešiteľ je RNDr. Tetiana Moskalets PhD. Druhý, „Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu“ (09I03-03-V02-00047), kde bol prijatý doktorand Mgr. Patrik Babulic.
Skupina „Laboratórium evolúcie proteínov“ (http://imb.savba.sk/~janecek/) vedená prof. Ing. Štefanom Janečkom, DrSc. patrí k popredným svetovým pracoviskám zapojeným do štúdia amylolytických enzýmov so špecializáciou na *in silico* prístupy. Spomedzi širokej medzinárodnej spolupráce je jednou z najvýznamnejších viac ako 25-ročná spolupráca s prof. Birte Svenssonovou (Danish Technical University, Kgs. Lyngby, Denmark), ktorá sa v roku 2023 prejavila aj v ďalšej spoločnej publikácii venovanej účinku škrob-viažúcej domény na aktivitu enzýmu 4-alfa-glukanotransferáza (doi: 10.3390/molecules28031320).
Pracovná skupina „Biochémia a štruktúra proteínov“ pod vedením Ing. Evy Kutejovej, DrSc. spolupracovala v roku 2022 s Dr. Jiřím Nováčkom CF CryoEM CEITEC, Masarykova univerzita v Brne na štúdiu štruktúry modifikovaných foriem ľudskej LON proteázy. Výsledky sú súčasťou APVV projektu a pripravovanej publikácie.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.
Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

Výsledok výskumu: V spolupráci so Štátnym veterinárnym a potravinovým ústavom v Bratislave sme akreditovali vyvinutú a optimalizovanú metodiku stanovenia antibakteriálneho potenciálu medu, komerčne dostupnú v rámci Európskej únie.
Kto využíva výsledok: hobby včelári, včelie farmy, spotrebitelia
Rok využívania od: 2022
Rok využívania do: trvá
Projekt: Medové laboratórium
Rok vytvorenia výsledku: 2020
Autori výsledku: Juraj Majtán, Marcela Bučeková, Jana Godočíková

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. pokračuje v poskytovaní komerčnej služby pre včelárov v rámci projektu "Medové laboratórium", ako aj v bezplatnej konzultácii pre včelárov. Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. sa podieľa aj na ďalších komerčných aktivitách a to vykonávaním vedeckých analýz prírodných produktov ako sú napr. extrakty húb pre súkromné tuzemské a zahraničné subjekty. V súvislosti s virtuálnym projektom "Medové laboratórium" a jeho ďalším rozvojom do medzinárodného priestoru, si ÚMB SAV, v. v. i., podal prihlášku o registrácii ochrannej známky " Honey laboratory", ktorú aj získal v priebehu roka. Dátum registrácie 12.05.2023, dátum ukončenia 23.01.2033, pod značkou EUIPO 018826777.
Link: https://euipo.europa.eu/eSearch/#details/trademarks/018826777

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2023

Forma	Počet k 31.12.2023				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2023					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	4	10	1	2	2	7	1	1	0	2	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	1	0	0	0	2	0	1	0	0	0	0
Spolu	5	11	1	2	2	9	1	2	0	2	0	0
Z toho zahraničných	0	1	0	0	1	0	1	0	0	0	0	0
Súhrn	16		3		11		3		2		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“.V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2023 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

Pôvodná forma	Denná z prostriedkov SAV	Denná z prostriedkov SAV	Denná z iných zdrojov	Denná z iných zdrojov	Externá	Externá
Nová forma	**Denná z iných zdrojov**	**Externá**	**Denná z prostriedkov SAV**	**Externá**	**Denná z prostriedkov SAV**	**Denná z iných zdrojov**
Počet	0	0	0	0	0	0

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2023 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť
Mgr. Veronika Bugárová	externé štúdium	10 / 2018	2 / 2023	1536 biológia	Ing. Juraj Majtán DrSc., MBA, FIFST, Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Andrej Poljovka	interné štúdium hradené z prostriedkov SAV	9 / 2019	8 / 2023	1536 biológia	RNDr. Marcel Zámocký DrSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Magdaléna Rusková	interné štúdium hradené z prostriedkov SAV	9 / 2019	7 / 2023	1536 biológia	Mgr. Andrea Puškárová PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK

5.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2023 úspešnou obhajobou v nadštandardnej dĺžke štúdia

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnosť

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2023 (obhajoba leto 2023)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
2	0	0	2	0

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	ITA/1, SRB/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

5.7. Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením VŠ

Tabuľka 5g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
chémia	1420	biochémia	Prírodovedecká fakulta UK
biológia	1536	molekulárna biológia	Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnosť alebo vyšší kvalifikačný stupeň
RNDr. Imrich Barák, DrSc. (mikrobiológia)	prof. Ing. Štefan Janeček, DrSc. (Fakulta prírodných vied UCM)	Mgr. Gábor Beke, PhD. (IIa)
RNDr. Gabriela Bukovská, CSc. (mikrobiológia)	Ing. Juraj Majtán, DrSc., MBA, FIFST (Slovenská zdravotnícka univerzita v Bratislave)	Mgr. Ján Jamroškovič, PhD. (IIa)
prof. Ing. Štefan Janeček, DrSc. (molekulárna biológia)		RNDr. Mária Kajsiková, PhD. (IIa)
RNDr. Ján Kormanec, DrSc. (biochémia)		Mgr. Nina Kunová, PhD. (IIa)
RNDr. Ján Kormanec, DrSc. (molekulárna biológia)		Mgr. Naďa Labajová, PhD. (IIa)
Ing. Eva Kutejová, DrSc. (chémia)		
RNDr. Vladimír Pevala, PhD. (genetika)		
Mgr. Andrea Puškárová, PhD. (mikrobiológia)		
RNDr. Ľubica Urbániková,		

CSc. (biochémia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2023

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	10	0	11	0
Celkový počet hodín v r. 2023	222	0	297	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	19
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	27
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	11
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	16
5.	**Počet oponovaných dizertačných a habilitačných prác**	13
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	8
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	0
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	4
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	0

5.9. Iné dôležité informácie k pedagogickej činnosti

Pri doktorandskom štúdiu sa na Ústave molekulárnej biológie SAV, v. v. i. kladie dôraz na výber školiteľov, pri ktorých je nevyhnutnou podmienkou zabezpečiť krytie doktorandskej témy kvalitnými projektami a predpoklad solídnej publikačnej činnosti.
Dôsledne uplatňujeme „Vnútorný systém zabezpečenia kvality doktorandského štúdia“ pri prijímaní nových doktorandov, ktorý bol prijatý v roku 2020.
V roku 2023 sa v našej organizácii uskutočňovalo doktorandské štúdium v štyroch študijných programoch: molekulárna biológia, mikrobiológia a genetika v odbore Biológia a biochémia v odbore Chémia, všetky v spolupráci s Prírodovedeckou fakultou UK Bratislava.
V priebehu roka 2023 sa u nás školilo v internej forme štúdia 14 doktorandov financovaných z prostriedkov SAV, v externej forme štúdia dvaja doktorandi. Začiatkom roka 2023 doktorandské štúdium predčasne ukončili dve doktorandky, Mgr. Monika Zámocká a Mgr. Romana Praženicová. V priebehu 2023 doktorandské štúdium ukončili úspešnou obhajobou a získali titul PhD. Mgr. Veronika Bugárová, Mgr. Andrej Poljovka a Mgr. Magdaléna Rusková.
V roku 2023 naši vedeckí pracovníci vypísali 7 tém na doktorandské štúdium v štyroch študijných programoch Prírodovedeckej fakulty UK v Bratislave, a to Molekulárna biológia, Mikrobiológia a Genetika v odbore Biológia a Biochémia v odbore Chémia. Následne v septembri 2023 nastúpili na internú formu doktorandského štúdia traja noví doktorandi, Mgr. Patrik Babulic v študijnom

programe Genetika, Mgr. Dominika Galová v študijnom programe Molekulárna Biológia a Mgr. Andrea Vetráková v študijnom programe Genetika, pričom pre doktorandské štúdium Mgr. Patrika Babulica bola získaná podpora z plánu obnovy SR.
Boli schválení siedmi noví školitelia doktorandského štúdia Mgr. Marcela Bučeková, PhD., Mgr. Gábor Beke, Phd., Mgr. Zuzana Chromíková, PhD., Mgr. Ján Jamroškovič, PhD., RNDr. Mária Kajsiková, PhD., Mgr. Nina Kunová, PhD., Mgr. Naďa Labajová, PhD. v študijných programoch biochémia, genetika, mikrobiológia a molekulárna biológia.
Naši doktorandi sa aktívne zapájajú do vedeckého a spoločenského života ÚMB SAV, v. v. i. Mnohí z nich viedli v roku 2023 semináre a cvičenia na príslušných katedrách Prírodovedeckej fakulty UK, oponovali bakalárske práce a niektorí sa aktívne zúčastnili výuky na strednej škole a pod.
Do programu grantov pre doktorandov SAV (DoktoGrant) sa v roku 2023 zapojili piati naši doktorandi, Mgr. Milan Hučko, Mgr. Bohuš Kubala, Mgr. Nikola Klištincová, Mgr. Silvia Žarnovičanová, a Mgr. Adam Poláček. DoktoGrant získali Mgr. Silvia Žarnovičanová a Mgr. Adam Poláček. Okrem toho tento rok, sa naši študenti prvýkrát zapojili do programu pre Motivačné štipendiá SAV, kde bolo úspešných sedem doktorandov.
Aby sa odborná verejnosť našej inštitúcie oboznámila s aktuálnymi vedeckými poznatkami, inovatívnymi metódami a novými prebiehajúcimi projektami, poriadame prezenčne každý týždeň ústavné semináre. V rámci pravidelných ústavných seminárov je prezentovaný aj progres prípravy dizertačných prác našich doktorandov.
Aby sme zabezpečili kariérny rast vedeckých pracovníkov, naďalej maximálne podporujeme krátkodobé i dlhodobejšie pobyty na zahraničných pracoviskách, workshopoch a kurzoch, ktoré by pomohli priniesť na ústav nové vedomosti a praktické skúsenosti, ale aj nadšenie a inšpiráciu.
Okrem doktorandského štúdia sa viacerí pracovníci ústavu aktívne podieľali na pedagogickom procese na viacerých slovenských (Prírodovedecká fakulta UK v Bratislave, Fakulta prírodných vied UCM v Trnave) a zahraničných univerzitách (Ultrecht University, Holandsko), vedením bakalárskych aj diplomových prác a preddiplomovej praxe študentov, ako aj vedením seminárov, praktických cvičení a prednášok. Na našom pracovisku dlhodobo školíme poslucháčov bakalárskeho a magisterského stupňa Prírodovedeckej fakulty UK, najmä z Katedry molekulárnej biológie, Katedry mikrobiológie a virológie, Katedry biochémie a Katedry genetiky, ako aj z Fakulty prírodných vied UCM v Trnave. Okrem toho sa naši vedeckí pracovníci venujú aj študentom stredných škôl, ktorí majú každoročne možnosť zúčastniť sa našich prednášok v rámci akcie „Deň otvorených dverí“, v roku 2023 realizovaných už prezenčnou formou. V prípade záujmu majú stredoškolskí študenti možnosť získavať skúsenosti pri práci v laboratóriu, prípadne sa so svojimi výsledkami zúčastňovať aj súťaže SVOČ.
V roku 2023 prejavil záujem o spoluprácu s našou inštitúciou študent z Gymnázia Grösslingová v Bratislave za účelom vypracovania príspevku na Biologickú olympiádu pod vedením RNDr. Lucie Bocánovej, PhD. V rámci európskeho výmenného programu ERASMUS+ absolvovali výmenný pobyt na našej inštitúcii celkovo traja zahraniční študenti:

- na oddelení „Mikrobiálnej genetiky“ pod vedením RNDr. Imricha Baráka, DrSc., študentka Univerzity Novi Sad, Srbsko, Theodora Dakovic od 26.06.2023 do 15.09.2023;
- na oddelení „Mikrobiálnej ekológie“ pod vedením Dr. Domenca Pangalla, DrSc., študenti Maria Teresa Rodinó z University of Reggio Calabria, Taliansko, po dobu 3 mesiacov (október - december 2023) a Alesssio Fontanot z University of Florence, Taliansko, po dobu 3 mesiacov (január – marec 2023). Výmenný pobyt po dobu 9 mesiacov (marec – december 2023) založený na dohode s Univerzitou v Chieti, Taliansko, absolvoval aj študent Pierluca Nuccetelli, tiež na oddelení “Mikrobiálnej ekológie“, pod vedením Dr. Domenica Pangalla, DrSc

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Universität Wien, Rakúsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2009
Zhodnotenie: Max Perutz Labs: kryštalizácia a X-ray analýza bielkovín Medical University: Charakterizácia proteínov zodpovedných za kontrolu proteolýzy na povrchu bunky.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

Názov inštitúcie: Future Farming s.r.o. Brno
Oblasť spolupráce: výskum rôznych antioxidantov z prírodných zdrojov
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2022
Zhodnotenie: V tomto roku sa spolupráca rozbehla a dosiahnuté výsledky v oblasti výskumu enzýmových antioxidantov boli prezentované formou prednášky na konferencii Green for Good VI v Olomouci, Česká republika.

Názov inštitúcie: Slovenský zväz včelárov
Oblasť spolupráce: Spolupráca v oblasti výskumu medu
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2021
Zhodnotenie: spolupráca ÚMB SAV, v. v. i. so Slovenským zväzom včelárov na základe memoranda o vzájomnej spolupráci. Memorandum za účelom dosiahnutia spolupráce v oblasti výskumu medu, a to charakterizovaním nových kvalitatívnych parametrov medu, ako aj optimalizáciou technologických spôsobov spracovania medu so zameraním na zvyšovanie kvality medu a zachovania jeho zdraviu prospešných vlastností.

Pozn.: uvádzajte len tie spolupráce, na ktoré má organizácia zmluvu resp. memorandum o zriadení spoločného pracoviska, resp. o vzájomnej spolupráci v konkrétnej oblasti výskumu

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Pozn.: uviesť konkrétne spoločné aj bilaterálne projekty na základe platnej zmluvy o spolupráci

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Názov univerzity/vysokej školy a fakulty: University of Natural Resources and Life Sciences vo Viedni. Oblasť spolupráce: základný výskum. Zhodnotenie: Dlhodobá spolupráca s univerzitovu na projekte "Molecular Evolution of Heme Peroxidases from Cephalochordata" (s označením P 31707-B32), ktorý viedol k trom spoločným publikáciám.

Názov univerzity/vysokej školy a fakulty: Cardiff University, Wales, UK. Oblasť spolupráce: základný výskum. Sídlo spoločného pracoviska (ak je vytvorené): Začiatok spolupráce: 2009 – trvá. Zhodnotenie: Spolupráca je zameraná na charakterizáciu rekombinantne pripravených domén ľudského ryanodínového receptora 2, exprimovaného predovšetkým v srdcovom svale. V rámci spolupráce bolo publikovaných niekoľko publikácií v zahraničných karentovaných časopisoch.

Názov univerzity/vysokej školy a fakulty: Ecole Polytechnique Federale de Lausanne, Švajčiarsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: Přírodovědná fakulta ‚Masarykova Universita Brno, CEITEC Brno, Česká republika. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2011- trvá. Zhodnotenie: Elektrónová mikroskopia mutantov ľudskej mitochondriálnej LON proteázy a MS analýzy modifikovaných proteínov.

Názov univerzity/vysokej školy a fakulty: Technical University of Denmark, Kgs. Lyngby, Dánsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu amylolytických enzýmov a ich škrob-viažucich domén in silico prístupmi so zameraním na ich sekvencie, štruktúry, funkcie a evolúciu.

Názov univerzity/vysokej školy a fakulty: University of Groningen, Groningen, Holandsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2016 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu štruktúry, funkcie a evolúcie amylolytických enzýmov so zameraním na unikátne črty v ich sekvenciách.

Názov univerzity/vysokej školy a fakulty: University of Novi Sad, Srbsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: University of York, Veľká Británia. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: V rámci tejto spolupráce bolo niekoľko spoločných grantových projektov a to konkrétne 3 x z The Wellcome Trust a 1 x z The Royal Society. Spolupráca sa dlhodobo týka štúdia základných bunkových procesov u Bacillus subtilis na molekulovej úrovni.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2011 - trvá. Zhodnotenie: Štúdium bakteriofágov a fágových lytických proteínov.

Názov univerzity/vysokej školy a fakulty: Univerzita Komenského v Bratislave. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2010 - trvá. Zhodnotenie: Štúdium mitochondriálnych proteínov.

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	2	tlač	8	TV	5
rozhlas	3	internet	12	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov

7.3. Účasť na výstavách

Názov výstavy: Týždeň vedy a techniky 2023
Miesto konania: Deň otvorených dverí ÚMB SAV v. v. i. , Bratislava
Dátum: 7.11.2023
Zhodnotenie účasti: V rámci Týždňa vedy a techniky na Slovensku 2023, usporiadalo naše pracovisko Deň otvorených dverí, ktorého súčasťou boli dve prednášky (RNDr. Ľubica Urbaníková, CSc., „Za každým kryštálom hľadaj štruktúru!“, a Mgr. Silvia Žarnovičanová, Mgr. Andrea Vetráková, „Bakteriálny svet okolo nás" Podujatia sa zúčastnili žiaci gymnázia na Metodovej ulici v Bratislave a verejnosť. Po prednáškach nasledovala praktická prezentácia: „Nenahraditeľné mikróby“. Celý deň sa niesol v duchu spoznávania mikróbov a ich prírodných produktovs využitím v bežnom živote a úlohy proteínov pre fungovanie živých organizmov.Na praktických príkladoch sme účastníkom vysvetľovali význam poznania štruktúry proteínov a nevyhnutnosť prípravy proteínových kryštálov. Potom nasledovala prehliadka laboratórií. Študentom sa páčili 3D modely baktérií, obrázky maľované pôdnymi baktériami a ukážky kryštalizácie. Najväčší úspech mala prehliadka Kryštalizačného laboratória - jediného svojho druhu na Slovensku.

Názov výstavy: COINTT 2023
Miesto konania: Hoteli Saffron, Bratislava
Dátum: 24.10.2023
Zhodnotenie účasti: V rámci EXPO stánku SAV sa pracovná skupina Genomika zúčastnila a prezentovala video-prezentáciou "Antimikrobiálny rekombinantný proteín s lytickými vlastnosťami voči patogénnym baktériám". Zároveň bola zverejnená ponuka expertíznej činnosti expertov z ÚMB SAV, v. v. i.

Názov výstavy: online Vianočná dražba – „Modrá hliadka“
Miesto konania: https://www.modrahliadka.sk/vianocnadrazba/
Dátum: 1.12.2023
Zhodnotenie účasti: Koncom roka sa náš ústav zapojil do online vianočnej dražby – „Modrá hliadka“ (1.-24.12.2023), ktorej výťažok sa použije výhradne na činnosť občianskeho združenia Modrá hliadka, ktoré šíri povedomie o autizme, neurodiverzite a inklúzii s cenou – „Exkurzia na Ústave molekulárnej biológie“. Táto exkurzia kolektívu výhercov priblíži vedecké laboratóriá a

bližšie spoznávanie mikróbov a ich prírodných produktov s využitím v bežnom živote.

Názov výstavy: Víkend s SAV
Miesto konania: Námestie M.R.Štefánika – Eurovea, Bratislava
Dátum: 23.6.2023
Zhodnotenie účasti: Naše pracovisko sa zapojilo do popularizačného podujatia Víkend s SAV prezentáciou vo forme stánku s názvom "Nenahraditeľné mikróby". Táto téma zahŕňala prácu väčšinyskupín na našom ústave. Bola rozdelená do štyroch častí (I. Mikróby v priemysle a medicíne, II. Antimikrobiálne látky a pigmenty, III. Mikróby a potraviny, IV. Kvíz o mikróboch – „Koleso šťastia“ a súťaž pre návštevníkov – „Kreslenie pôdnymi baktériami“). Na podujatí sa zúčastnilo 15 našich zamestnancov zo všetkých oddelení a táto aktivita sa stretla s výrazne pozitívnym ohlasom. Viac ako 45 návštevníkov sa zapojilo do súťaže „Kreslenie pôdnymi baktériami“, obrázky zo súťaže boli priebežne zverejňované na našich sociálnych sieťach. Traja výhercovia získali hlavnú cenu – „Exkurziu na Ústave molekulárnej biológie“. Ostatní výhercovia boli ocenení balíčkom „Mladý mikrobiológ“.

Názov výstavy: Európska Noc výskumníkov 2023
Miesto konania: Stará tržnica, Bratislava
Dátum: 29.9.2023
Zhodnotenie účasti: Naše pracovisko sa na festivale vedy Európska Noc výskumníkov 2023 prezentovalo so stánkom "Nenahraditeľné mikróby". Téma bola zameraná na využitie mikróbov v priemysle, medicíne a potravinárstve, ako aj antimikrobiálnym látkam a pigmentom, ktoré tieto mikroorganizmy produkujú. Prezentácia bola obohatená množstvom pokusov pre malých aj veľkých návštevníkov. Na podujatí sa zúčastnilo 16 našich zamestnancov zo všetkých oddelení ústavu, táto aktivita sa stretla s výrazne pozitívnym ohlasom.

Názov výstavy: Letná škola mladých vedcov (all4science) 2023
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 17.7.2023
Zhodnotenie účasti: Oddelenie genomiky a biotechnológie nášho ústavu sa tento rok zapojilo do Letnej školy mladých vedcov (all4science) organizovanej pre žiakov vo veku od 12 do 17 rokov, ktorí strávili týždeň v prostredí Slovenskej akadémie vied, kde zažili vedu, pokusy a stretnutia s vedcami. Štyria vybraní žiaci si mali môžnosť týždeň na našom ústave vyskúšať rôzne experimenty a vypočuť prednášky v rámci riešenej témy „Skrytý potenciál mikróbov a vírusov“, pod vedením RNDr. L. Bocánovej, PhD., Mgr. R. Novákovej, CSc., RNDr. M.Kajsikovej, PhD., RNDr. R. Javorovej a Mgr. K. Pápayovej a Mgr. Vladeny Bauerovej, PhD. Záverom pobytu bolo vyhodnotenie a fotodokumentácia výsledkov prezentovaná posterovou prezentáciou „Skrytý potenciál mikróbov a vírusov“ spojenej s diskusiou k získaným výsledkom na spoločnej záverečnej akcií všetkých účastníkov Letnej školy mladých vedcov.

Názov výstavy: Malá projektová schéma SAV 2023
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.5.2023
Zhodnotenie účasti: Náš ústav sa zapojil do výzvy na predkladanie žiadosti o podporu projektov v Malej projektovej schéme SAV 2023, na podporu popularizácie vedy a jej prezentáciu smerom k širokej verejnosti. Do tejto výzvy sme sa zapojili projektom Mgr. R. Novákovej, CSc. a kol. s názvom "Nenahraditeľné mikróby", ktorého cieľom bola edukácia a motivácia širokej verejnosti a študentov základných a stredných škôl prostredníctvom zážitkového a experimentálneho učenia sa. Projekt sa zameriaval na rozvíjanie vzťahov k obklopujúcemu prírodnému prostrediu. Získanú dotáciu na projekt, sme použili na výrobu pomôcok (3D modelov mikroorganizmov, štruktúr proteínov a pod.) a výrobu sklenených nádob na maľovanie pôdnymi baktériami. Tieto pomôcky boli celý rok využívané na vedecko-popularizačných podujatiach pre verejnosť (Víkend so SAV,

Letná škola mladých vedcov, Noc výskumníkov, Deň otvorených dverí a pod.) ako aj prednáškach, exkurziách a riešených SOČ. Do riešeného projektu boli zapojené všetky oddelenia ústavu.

Názov výstavy: Vedecká podpora projektu - Inovačný projekt FLL 2023/24 - YIL
Miesto konania: ÚMB SAV v. v. i., Bratislava
Dátum: 1.12.2023
Zhodnotenie účasti: Tím mladých inovátorov z rôznych škôl, ktorých spája záujem o LEGO, programovanie, experimentovanie a vedu sa zapojili do súťaže FLL (First Lego League) inovačným projektom "Kreslenie baktériami". Témou projektu bolo využitie technológie a umenia na upútanie ostatných alebo zvýšenie účasti na tom čo radi robíte. Časťou projektu, ktorý propaguje vedu bola aj návšteva laboratória oddelenia Genomiky a biotechnológie na našom ústave a kreslenie pôdnymi baktériami pod vedením Mgr. R. Novákovej, CSc. a RNDr. L.Bocánovej, PhD., ktorá bola spojená s odborným výkladom a diskusiou: „Na čo všetko sa vo výskume používajú pôdne a iné baktérie". Výstupy z projektu boli propagované na sociálnych sieťach nášho ústavu ako aj na web stránke mladých inovátorov https://www.yil.sk/domov

Názov výstavy: Európska Noc výskumníkov 2023 – Navštív svoju školu – Spoznaj svojho vedca
Miesto konania: ZŠ Morovnianska cesta, Handlová
Dátum: 2.10.2023
Zhodnotenie účasti: Naše pracovisko sa v rámci festivalu vedy Európska Noc výskumníkov 2023 zapojilo do programu Navštív svoju školu – Spoznaj svojho vedca. RNDr. Ráchel Javorová prezentovala tému Streptomycéty – užitočné baktérie, ktorej sa venujeme na Oddelení genomiky a biotechnológií na našom ústave, študentom deviateho ročníka Základnej školy na Morovnianskej ceste v Handlovej. Prezentácia bola obohatená o názorné ukážky pôdnych baktérií streptomycét (významných producentov väčšiny pigmentov a antibiotík), extrakciu modrého pigmentu indigoidínu a kreslenie na Petriho misky s tuhým živným médiom pôdnymi baktériami. Podujatie sa stretlo s pozitívnym ohlasom zo strany študentov aj učiteľov.

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

RNDr. Imrich Barák, DrSc.

Frontiers in Microbiology (funkcia: Associate Editor)

RNDr. Gabriela Bukovská, CSc.

Acta Virologica (funkcia: člen Editorial Board - Reviewer)

prof. Ing. Štefan Janeček, DrSc.

3Biotech (funkcia: Associate Editor)
Biologia (funkcia: Managing Editor, section Cellular and Molecular Biology)
Enzyme and Microbial Technology (funkcia: Editorial Board member)
Journal of Applied Glycoscience (funkcia: Editorial Board member)
Molecules, section Bioorganic Chemistry (funkcia: Editorial Board member)
Nova Biotechnologica et Chimica (funkcia: Editorial Board member)

RNDr. František Jurský, CSc.

Frontiers in Molecular Neuroscience (funkcia: Review editor)

Mgr. Ľuboš Kľučár, PhD.

Embnet.journal (funkcia: člen Executive Editorial Board)

RNDr. Ján Kormanec, DrSc.

Frontiers in Microbiology (funkcia: člen edičnej rady)
International Journal of Molecular Sciences (funkcia: member of Editorial board)

Mgr. Naďa Labajová, PhD.

Frontiers in Microbiology (funkcia: Review editor)

Ing. Juraj Majtán, DrSc., MBA, FIFST

Asian Pacific Journal of Tropical Biomedicine (funkcia: člen edičnej rady)
Evidence-Based Complementary and Alternative Medicine (funkcia: člen edičnej rady)
Frontiers in Microbiology (section: Food Microbiology) (funkcia: člen edičnej rady)
Heliyon (funkcia: člen edičnej rady)
Molecules (funkcia: člen edičnej rady)
Scientific Reports (funkcia: člen edičnej rady)
Včelár (funkcia: člen redakčnej rady)

RNDr. Marcel Zámocký, DrSc.

Antioxidants Basel (MDPI) (funkcia: topic editor)
Biology Basel (MDPI) (funkcia: guest editor)
Frontiers in Molecular Biosciences (funkcia: guest editor)
The Open Biochemistry Journal (funkcia: člen)

7.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Ján Kormanec, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen výboru)

Ing. Juraj Majtán, DrSc., MBA, FIFST

Slovenská apiterapeutická spoločnosť (funkcia: člen výboru spoločnosti)

7.7. Iné dôležité informácie o vedecko-organizačných a popularizačných aktivitách

V roku 2023 boli na Ústave molekulárnej biológie SAV, v. v. i. založené sociálne siete (Facebook, Instagram, Twitter, LinkedIn, YouTube), ktoré slúžia na aktívnu komunikáciu s verejnosťou.

8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie

8.1. Členstvo v poradných zboroch vlády SR, Národnej rady SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Tabuľka 8a Členstvo v poradných zboroch Národnej rady SR, vlády SR, ministerstiev SR, orgánoch EÚ, EP, NATO a pod.

Meno pracovníka	Názov orgánu	Funkcia
RNDr. Imrich Barák, DrSc.	Komisia pre koordináciu aktivít SR v projektoch ESFRI orientovaných na materiály, fyzikálne vedy, s aplikačným potenciálom v biologických a medicínskych vedách, v chemických vedách a IT	člen
	SFX Management Board at European XFEL (X-ray Free Electron Laser) in Hamburg, Germany	člen
	XBI "Management Board at European XFEL (X-ray Free Electron Laser)" v Hamburgu, Nemecko	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore biochémia	člen
	Komisia pri Monitorovacom výbore pre Program Slovensko 2021 – 2027	pozorovateľ
	Koordinačná platformy RVVTI	člen
RNDr. Peter Ferianc, CSc.	Zbor expertov pre biologickú bezpečnosť Ministerstva životného prostredia SR	člen
prof. Ing. Štefan Janeček, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	predseda
RNDr. Ján Kormanec, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	predseda
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore virológia	člen
Ing. Juraj Majtán, DrSc., MBA, FIFST	Odborná pracovná skupina pre farmakoekonomiku, klinické výstupy a hodnotenie zdravotníckych technológií MZ SR	člen
RNDr. Vladimír Pevala,	Komisia pre biologickú bezpečnosť	člen

PhD.		

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
RNDr. Imrich Barák, DrSc.	Predsedníctvo APVV	člen
RNDr. Ján Kormanec, DrSc.	Rada APVV pre prírodné vedy	člen
Ing. Juraj Majtán, DrSc., MBA, FIFST	Rada APVV pre prírodné vedy	člen

8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

Mgr. Ľuboš Kľučár, PhD.

- člen
- predseda
- predseda II. komory

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

RNDr. Imrich Barák, DrSc.

- Akreditačná komisia SAV (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

Mgr. Ľuboš Kľučár, PhD.

- Akreditačná komisia SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre zahraničné styky (člen)

RNDr. Ján Kormanec, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

RNDr. Katarína Muchová, CSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (tajomníčka)

Mgr. Renáta Nováková, CSc.

- Etická komisia SAV (člen)

9.4. Členstvo v orgánoch VEGA

RNDr. Imrich Barák, DrSc.

- Komisia VEGA č. 4 pre biologické vedy (predseda)

Ing. Juraj Majtán, DrSc., MBA, FIFST

- Komisia VEGA č. 4 (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Ústav molekulárnej biológie, v. v. i. sa pripojil k Plánu rodovej rovnosti Slovenskej akadémie vied (PRR, Gender Equality Plan), ktorý bol na našom ústave prijatý ku dňu 2.1.2023.
Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Výskumní pracovníci našej oragnizácie sú prijímaní a zapojení do projektov na základe svojich odborných znalostí a skúseností v oblasti molekulárnej biológie, biochémie, bunkovej biológie, mikrobiológie, medicíny, proteomiky, transkriptomiky a štrukturálnej biológie bez ohľadu na ich pohlavie, národnosť a vierovyznanie. Prijímame všetky zapojené pincípy z Plánu rodovej rovnosti, ktorý je dostupný na webovom sídle našej inštitúcie.
V zmysle našich spoločných projektov všetky pracovné oddelenia plne akceptujú princípy otvorenej vedy, ktorá zahŕňa výskumný proces založený na spolupráci, zdieľaní a otvorenom šírení poznatkov prostredníctvom optimálneho využívania digitálnych technológií a uplatňovania princípov otvorenosti v každom aspekte výskumného cyklu.

Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV.

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov
Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	13	8	5	1	0	1
2. Projekty APVV	10	8	2	6	6	0
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	2	1	1	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	1	1	0	0	0	0

5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	1	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	**Organizácia SAV je nositeľom projektu**			**Organizácia SAV je zmluvným partnerom**		
	Počet	**Hlavný riešiteľ**		**Počet**	**Hlavný riešiteľ za organizáciu**	
		Muž	**Žena**		**Muž**	**Žena**
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	3	2	1
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	0	0	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1	0	0	0
7. Bilaterálne projekty ostatné	1	1	0	1	1	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	0	0	0	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	1	1	0

10.2.2. Výskum zameraný na rodovú problematiku

Naša organizácia zatiaľ nie je zapojená do projektov orientovaných na rodovú problematiku.
Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Na ústave pracuje Základná odborová organizácia Odborového zväzu SAV (ZO OZ SAV). Odborový zväz SAV je členom KOZ, Konfederácie odborových zväzov SR, ktorá zastrešuje vyše 20 odborových organizácií. V Kolektívnej zmluve (KZ), ktorú každoročne uzatvára ZO OZ SAV s vedením ústavu, sú dohodnuté lepšie podmienky, ako ustanovuje Zákonník práce a Kolektívna zmluva vyššieho stupňa. Ide najmä o zvýšenie odchodného nad rozsah ustanovený v Zákonníku práce o jeden, resp. dva mesačné zárobky (ak zamestnanec odpracoval v organizácii najmenej 15 rokov) a predĺženie základnej výmery dovolenky nevedeckých pracovníkov o jeden týždeň na celkových 6, resp.7 týždňov.
V KZ je dohodnutá voľná pracovná doba, výplatný termín, včasné oznámenie nepredĺženia pracovnej zmluvy a sú špecifikované aj ďalšie ustanovenia nad rámec Zákonníka práce, ktorými zamestnávateľ vychádza v ústrety zamestnancom. K už tradičným benefitom (mesačne jeden deň náhradného voľna pre rodičov maloletých detí, mesačne jeden deň náhradného voľna zo zdravotných dôvodov, možnosť práce z domu po dohode s vedúcim) v tomto roku pribudlo predĺženie termínovaných pracovných zmlúv zamestnancom na materskej alebo rodičovskej dovolenke až do jej ukončenia.
Tvorba sociálneho fondu bola na rok 2023 dohodnutá vo výške 1,25% zo súhrnu hrubých platov zúčtovaných zamestnancom na výplatu za kalendárny rok, ale z finančných dôvodov bola od 1.9.2023 znížená na 1.05%. Sociálny fond je primárne určený na realizáciu sociálnej politiky zamestnávateľa. Umožňuje zamestnancom, ktorí sa ocitnú v zložitých sociálnych situáciách požiadať o finančnú podporu, ale v praxi sa čerpá hlavne na dodatočný príspevok na stravovanie zamestnancov (0,85 € na každý "stravný lístok" nad povinný príspevok zamestnávateľa).
Ústav sa snaží v rámci finančných možností zlepšovať pracovné prostredie. V tomto roku prebehla oprava stúpačiek v hlavnej budove a rozvodov vody vo vedľajšej budove (zlepšila sa tým okrem iného kvalita vody), vymenili sa žalúzie a sieťky proti hmyzu na oknách a obnovili sa svietidlá v celom ústave. Na ústave bola tiež urobená kompletná rekonštrukcia kotolne (výmena 5 kotlov za dva, zateplenie rozvodov, výmena komína a nastavenie regulácie kúrenia a dodávky teplej vody).
K dobrej a priateľskej atmosfére prispievajú spoločenské akcie organizované na našom pracovisku.
V tomto roku sa konalo pečenie fašiangových šišiek, varenie gulášu (organizovali doktorandi), vianočný večierok. Obnovili sme spoločné kávové prestávky, k čomu prispel ústav zriadením kuchynky a kávového kútika v priestoroch konferenčnej miestnosti.

Uveďte stručné, základné informácie k problematike.

11. Organizačné a právne zmeny v organizácii

11.1. Informácie o vnútorných organizačných zmenách

V priebehu roka 2023 nenastali v ÚMB SAV, v. v. i., žiadne organizačné zmeny.
Uveďte stručné, základné informácie k problematike.

11.2. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

V priebehu roka 2023 prijali Snem SAV a Predsedníctvo SAV zmeny v niekoľkých vnútorných predpisoch:

- Pravidlá odmeňovania riaditeľa verejnej výskumnej inštitúcie založenej Slovenskou akadémiou vied
- Pravidlá odmeňovania vedúceho organizačnej zložky verejnej výskumnej inštitúcie založenej Slovenskou akadémiou vied

Tieto pravidlá nadobudli účinnosť 28.6.2023.

- Pravidlá výberového konania na obsadzovanie miesta riaditeľa verejnej výskumnej inštitúcie
- Pravidlá výberového konania na obsadzovanie miesta vedúceho organizačnej zložky verejnej výskumnej inštitúcie

Tieto pravidlá nadobudli účinnosť 27.11.2023.
Uveďte stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		4577
z toho	knihy a zviazané periodiká	4577
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

*Výraz **„v tom“** označuje úplné (vyčerpávajúce) údaje, ktorých súčet sa musí rovnať údaju v riadku „spolu“, čiže nadradenému riadku.*
*Výraz **„z toho“** označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.*

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

12.4. Iné údaje

Tabuľka 12d Iné údaje

On-line katalóg knižnice na internete (1=áno, 0=nie)	
Náklady na nákup knižničného fondu v €	

12.5. Iné informácie o knižničnej činnosti

Od roku 2009 je výpožičná služba knižnice pozastavená.

13. Nadácie a fondy pri organizácii

nemáme

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Pravidelné hodnotenie vedeckých organizácií SAV za obdobie 2016 - 2021 zaradilo ÚMB SAV, v. v. i., do kategórie „B“ s charakteristikou:

Výskum je viditeľný na európskej úrovni. Organizácia prispieva hodnotnými výsledkami k rozvoju vednej oblasti v Európe.

Celkové posúdenie akreditačnou komisiou

Ústav je založený na solídnom výskumnom a ľudskom potenciáli, ktorý by sa mal naplno rozvinúť v nasledujúcom hodnotiacom období.

Pripomienky a odporúčania pre budúce zlepšovanie organizácie

· Je potrebné vyvinúť úsilie smerom k ďalšiemu zvyšovaniu medzinárodnej spolupráce, ktoré by umožnilo podávanie žiadostí v konkurenčnom medzinárodnom financovaní;

• následne by sa malo všetko úsilie vynaložiť na zvýšenie vedeckej viditeľnosti organizácie prostredníctvom vyššieho publikačného profilu, s väčším počtom článkov v špičkových časopisoch;

• organizácia by mali byť proaktívnejšia v získavaní nových doktorandov, najmä z medzinárodného prostredia;

• organizácia by mala zintenzívniť svoje aktivity zamerané na verejnosť;

• pozornosť by sa mala venovať správe duševného vlastníctva a jeho výhodnejšiemu inštitucionálnemu využitiu; malo by sa zvážiť rozšírenie komerčných činností s cieľom vytvoriť dodatočné finančné príjmy pre výskum.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Vzhľadom na časovú zaneprázdnenosť členov nášho medzinárodného poradného výboru (MPV), sa nám podarilo zorganizovať osobne stretnutie jeho členov s naším vedením, vedeckou radou a celou akademickou obcou až koncom novembra 2023. Vzhľadom na to sa príprava akčného plánu na nasledujúce roky, obsah ktorého bude do značnej miery založený aj na výsledkoch tohto stretnutia, oneskorila a akčný plán bude finalizovaný až začiatkom roku 2024.

Medzi základné odporúčania nášho MPV patrí potreba aktívneho zapájania sa do väčších medzinárodných spoluprác, kde veľmi výhodným a jednoduchým spôsobom je väčšia aktivita v COST projektoch, ktoré okrem spoločných stretnutí a konferencií poskytujú aj možnosti pre krátkodobé vedecké pobyty na zahraničných pracoviskách, ako aj prijímanie zahraničných pracovníkov na krátkodobé pobyty u nás. Vedúci pracovných skupín by mali zvážiť aj účasť na doktorandských sieťach EÚ programov Marie-Sklodowska-Curie, ktoré predstavujú ďalšiu príležitosť na nadviazanie novej spolupráce s európskymi kolegami a malými a strednými podnikmi (SME). Spolupráca s Viedenskou univerzitou, ktorá viedla k vybudovaniu unikátneho kryštalografického laboratória z európskych fondov, je výborným príkladom nadviazania nových a potrebných medzinárodných spoluprác. Vzhľadom na vyššie uvedené, sme už v roku 2023 zvýšili svoju účasť na COST projektoch a ako participujúci člen konzorcia “Bee Health“ sme podali projekt v rámci výzvy HORIZON-MSCA-2023-DN-01 pre získanie špičkových zahraničných študentov doktorandského štúdia na ÚMB SAV, v. v. i.

Podobne, väčšie zapojenie sa do výmenných programov ERASMUS môže organizáciu zviditeľniť aj medzi mladou vedeckou komunitou a pritiahnuť nových zahraničných kandidátov na doktorandské štúdium. Taktiež pedagogické aktivity na univerzitách zviditeľňujú organizáciu a prinášajú mnohé ďalšie benefity. Je potrebné uchádzať sa v čo najväčšej miere aj o grantové schémy SAV, podobne ako tomu bolo v prípade úspešného získania finančnej podpory z programu IMPULZ pre nových perspektívnych vedúcich pracovných skupín. Zároveň je dôležité a potrebné zvážiť uchádzanie sa perspektívnych pracovníkov o ERC grant, v rámci čoho je potrebné a nutné využiť všetku dostupnú podporu pre prípravu žiadosti tak na národnej úrovni, ako aj od samotného

ERC. Významné je aj zapájanie sa do výziev Plánu obnovy, v rámci ktorého podala naša organizácia už niekoľko žiadostí. V prípade ich akceptovania sa vytvoria veľmi solídne podmienky na podporu mladých vedeckých pracovníkov, ako aj na nákup prístrojovej infraštruktúry.
Vzhľadom na obmedzené finančné zdroje je nevyhnutne transformovať existujúce, ako aj nové aplikačné aktivity smerom k výraznejším finančným ziskom. Je užitočné naučiť sa využívať aj nové prístupy vedeckého bádania, medzi ktoré patrí napríklad aj finančne nenáročné spracovanie a porovnanie vlastných výsledkov s inými verejne dostupnými údajmi.

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

V roku 2023 prebiehala príprava aktuálneho akčného plánu zameraného na skvalitnenie a zefektívnenie vedeckej činnosti organizácie po poslednom pravidelnom hodnotení organizácií SAV.

15. Iné významné činnosti organizácie SAV

ÚMB SAV, v. v. i. je majiteľom sekcie Cellular and Molecular Biology medzinárodného časopisu Biologia evidovaného v Current Contens a Web of Science s IF 2022: 1,5. Časopis je od roku 2018 pod vydavateľstvom Springer. Manažérskym editorom tejto sekcie je prof. Ing. Štefan Janeček, DrSc.
ÚMB SAV, v. v. i. vykonáva od roku 1999 s mandátom MŠVVaŠ SR funkciu Národného uzla organizácie EMBnet (The Global Bioinformatics Network). Táto organizácia vznikla v roku 1988 za účelom spojiť jednotlivé európske pracoviská, ktoré sa zaoberajú využitím bioinformatiky a *in silico* analýzy. Hlavnou náplňou činnosti Národného uzla je administrácia rozsiahleho biologického výpočtového systému, školenia a kurzy zamerané na ich využitie, ako aj spolupráca s inými vedeckými projektmi v oblasti bioinformatiky. Národný uzol je jediným slovenským centrom, ktoré udržiava a poskytuje analyzačné balíky Galaxy a Chipster určené na analýzu high-throughput dát (DNA čipy, NGS) pre potreby národnej vedeckej komunity. Naše pracovisko sa priamo podieľa aj na tvorbe medzinárodného peer-review časopisu EMBnet.journal (journal.embnet.org), zameraného hlavne na praktickú bioinformatiku.

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

V roku 2023 nebola prijatá žiadna žiadosť o prístup k informáciám.

Uveďte informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV

Podobne ako v predchádzajúcom období chceme upozorniť na problémy, ktoré majú dlhodobejší charakter:
Podpora marketingových aktivít zo strany Predsedníctva SAV (P SAV) v komercializácii vedeckých výsledkov:
Orientácia na aplikovaný výskum a predovšetkým komercializácia vedeckých výstupov v rámci ústavov SAV predstavuje dôležitý krok k získavaniu ďalších finančných prostriedkov. Odporúčania meta-panelu v ostatnom akreditačnom hodnotení ústavov SAV jasne poukazujú na nedostatok komercializácie výsledkov. Pre komerčné použitie získaných výsledkov je potrebné o nich informovať širokú verejnosť, resp. podniknúť ďalšie nevyhnutné marketingové kroky. Keďže naštartovanie marketingových aktivít, ako sú napr. založenie webových stránok a registrácia ochranných známok je finančne náročnejšie, uvítali by sme v tomto smere aktivity P SAV napr. formou podpory najlepších komerčných projektov, ktoré by boli hodnotené novo-vymenovanou komisiou P SAV a ktoré majú najväčší komerčný potenciál. Mohlo by sa jednať o tzv. „štartovací balíček“ v celkovej hodnote rádovo 5000 eur na pokrytie základných marketingových potrieb.
ÚMB SAV, v. v. i. navrhuje, aby P SAV spolu s vedením jednotlivých ústavov hľadalo riešenie pre efektívnejšie využívanie špičkových prístrojov, ktoré ústavy či centrá získali zo štrukturálnych a iných verejných zdrojov a ktoré by mali záujem využívať aj iní pracovníci. Všeobecná dostupnosť a prípadne odborný servis tu neexistuje. Údaje, ktoré sa dajú získať z webovej stránky SAV (Výskumná infraštruktúra SAV) sú nevyhovujúce, často neúplné, bez potrebných detailov. Koordinácia využívania vysoko sofistikovaných špičkových prístrojov by určite viedla k zlepšeniu spolupráce medzi jednotlivými pracoviskami, ich vedeckých výstupov a hodnotenia SAV ako vedeckej inštitúcie.
Privítali by sme väčšiu finančnú podporu Fondu Štefana Schwarza tak, aby v prípade výskytu viacerých vysoko kvalitných projektov ich bolo možné financovať. Je veľmi dôležité, aby nám talentovaní mladí vedeckí pracovníci neodchádzali do zahraničia alebo do komerčnej sféry.
P SAV by malo uvažovať o krátkom workshope zameranom na pravidlá čerpania finančných prostriedkov z projektov SASPRO a Impulz. Jeho nositelia ako zahraniční vedci alebo slovenskí vedci dlhodobejšie pracujúci v zahraničí by sa potrebovali oboznámiť zo zásadami a zákonmi, ktoré platia pri financovaní projektov na Slovensku a SAV.
Uveďte informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

Vedecká rada ÚMB SAV, v. v. i., na svojom zasadnutí dňa 6. 2. 2024 prerokovala a schválila hodnotenie výsledkov výskumnej činnosti ÚMB SAV, v. v. i., a konštatovala, že ÚMB SAV, v. v. i., je aj naďalej spôsobilý vykonávať výskumnú činnosť.
V roku 2023 naši vedeckí pracovníci publikovali celkovo 31 impaktovaných vedeckých publikácií, pričom drvivá väčšina z nich, až 94 %, patrí do 1. a 2. kvartilu Scimago (z toho až 87 % v 1. kvartile). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác, ktoré majú z dlhodobého hľadiska stúpajúci trend. Za rok 2022 (vykazované v roku 2023) sme celkovo získali 1 676 WoS a Scopus ohlasov na naše práce. Komplexný prehľad dosiahnutých vedeckých výsledkov uvádza kapitola 2 tejto správy.
Medzi naše najlepšie vedecké výsledky dosiahnuté v roku 2023 patrí podľa vedeckej rady v oblasti základného výskumu problematika geneticky upravených bakteriálnych spór ako potenciálnych orálnych vakcín proti SARS-CoV-2 a iným patogénom (pracovná skupina RNDr. Imricha Baráka, CSc.), úloha PDZ interakcií v regulácii GABA transportéra GAT1 a proteínu E u vírusov SARS COV, SARS-COV2 a MERS-COV (pracovná skupina RNDr. Františka Jurského, CSc.) a charakterizácia novo identifikovaného pravdepodobného iniciátora DNA replikácie z bakteriofága phiBP (pracovná skupina RNDr. Gabriely Bukovskej, CSc.). V oblasti aplikačného výskumu je to stratégia molekulárnej a enzymatickej ochrany nášho kultúrneho dedičstva (pracovná skupina Dr. Domenica Pangalla) a v oblasti medzinárodnej spolupráce výskum zameraný na detekciu dvoch funkčne odlišných luminálnych Ca^{2+}-väzbových miest u ryanodínových receptorov: objasnenie rozdielnej regulácie otvárania a zatvárania RyR1 a RyR2 kanála (pracovná skupina Ing. Evy Kutejovej, DrSc.).

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 6.2.2024

Mgr. Ľuboš Kľučár, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2023 vypracoval(i):

RNDr. Lucia Bocánová, PhD., 02 5930 7440

Bratislava, 12.6.2024

Ing. Eva Kutejová, DrSc.
riaditeľka organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2023

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Imrich Barák, DrSc.	100	1.00
2.	prof. Ing. Štefan Janeček, DrSc.	100	1.00
3.	RNDr. Ján Kormanec, DrSc.	100	1.00
4.	Ing. Eva Kutejová, DrSc.	100	1.00
5.	Ing. Juraj Majtán, DrSc., MBA, FIFST	100	1.00
6.	Dr. Domenico Pangallo, DrSc.	100	1.00
7.	RNDr. Marcel Zámocký, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Martina Baliová, PhD.	100	1.00
2.	Jacob Bauer, PhD.	100	1.00
3.	Mgr. Vladena Bauerová, PhD.	100	1.00
4.	Mgr. Gábor Beke, PhD.	100	1.00
5.	Mgr. Marcela Bučeková, PhD.	100	1.00
6.	RNDr. Mária Bučková, PhD.	100	1.00
7.	RNDr. Gabriela Bukovská, CSc.	100	1.00
8.	RNDr. Jarmila Farkašovská, CSc.	100	1.00
9.	RNDr. Marian Farkašovský, CSc.	100	1.00
10.	RNDr. Peter Ferianc, CSc.	100	1.00
11.	RNDr. Nora Halgašová, PhD.	100	1.00
12.	RNDr. Katarína Chovanová, PhD.	100	1.00
13.	Mgr. Zuzana Chromiková, PhD.	100	1.00
14.	Mgr. Ján Jamroškovič, PhD.	100	0.17
15.	RNDr. Jana Júdová, PhD.	100	0.17
16.	RNDr. František Jurský, CSc.	100	1.00
17.	RNDr. Mária Kajsiková, PhD.	100	1.00
18.	Mgr. Ľuboš Kľučár, PhD.	100	1.00
19.	Ing. Daniela Krajčíková, CSc.	100	1.00

20.	Mgr. Lucia Kraková, PhD.	100	1.00
21.	Mgr. Nina Kunová, PhD.	100	1.00
22.	Mgr. Naďa Labajová, PhD.	100	1.00
23.	Mgr. Vladimír Leksa, PhD.	100	1.00
24.	RNDr. Tetiana Moskalets, PhD.	100	1.00
25.	RNDr. Katarína Muchová, CSc.	100	1.00
26.	Mgr. Renáta Nováková, CSc.	100	1.00
27.	Ing. Gabriela Ondrovičová, PhD.	100	1.00
28.	RNDr. Vladimír Pevala, PhD.	100	1.00
29.	Mgr. Andrea Puškárová, PhD.	100	1.00
30.	RNDr. Ľubica Urbániková, CSc.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Lucia Bocánová, PhD.	100	1.00
2.	Mgr. Zuzana Farkas, PhD.	100	0.75
3.	Mgr. Marek Gabriško, PhD.	100	0.88
4.	RNDr. Romana Kalianková Chovanová, PhD.	100	0.00
5.	Mgr. Filip Mareček, PhD.	100	1.00
6.	MSc. Jelena Pavlović, PhD.	100	1.00
7.	Mgr. Matej Stano, PhD.	10	0.10
8.	Mgr. Barbora Stojkovičová, PhD.	100	0.00
9.	MUDr. Magda Suchánková, PhD.	15	0.75
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Veronika Bellová	100	0.00
2.	RNDr. Ľubomíra Fecková	100	1.00
3.	Ing. Jana Godočíková	100	1.00
4.	Ing. Janka Harichová	100	1.00
5.	Mgr. Henrieta Havalová	8	0.08
6.	Mgr. Diana Hubertová	100	1.00
7.	Mgr. Milan Hučko	5	0.04
8.	Dipl.-Ing. Polina Marchenko	100	0.08
9.	Mgr. Lucia Martináková	100	1.00
10.	MSc. Lucia Nemčovičová	100	0.08
11.	Mgr. Filip Opaterný	100	1.00
12.	Ing. Bronislava Řežuchová	100	1.00
13.	Mgr. Michaela Schorschová	50	0.25

14.	RNDr. Beatrica Ševčíková	100	1.00
15.	Mgr. Andrea Vetráková	8	0.77
16.	Mgr. Silvia Žarnovičanová	8	0.01
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alžbeta Janečková	50	0.50
2.	Ing. Eva Okoličányiová	50	0.00
3.	Mgr. Pavol Pataky	100	0.96
4.	Ing. Dana Rybárová	100	1.00
5.	Mgr. Svitlana Shterenberg	100	0.08
Odborní pracovníci ÚSV			
1.	Renáta Knirschová	100	1.00
2.	Katarína Kválová	100	1.00
3.	Erika Poleková	100	1.00
4.	Katarína Semešová Pírová	100	1.00
5.	Kristína Zvarová	50	0.50
Ostatní pracovníci			
1.	Miroslav Buran	70	0.70
2.	Valéria Csonková	100	1.00
3.	Andrea Dávidová	100	1.00
4.	Martin Goliaš	130	1.30
5.	Marieta Hronská	100	1.00
6.	Dáša Jašková	100	1.00
7.	Karol Ondrovič	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	RNDr. Jarmila Farkašovská, CSc.	31.12.2023	1.00
2.	RNDr. Peter Ferianc, CSc.	31.12.2023	1.00
Vedeckí pracovníci			
1.	Mgr. Matej Planý, PhD.	30.6.2023	0.25
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Romana Praženicová	28.2.2023	0.07
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Anna Varcholová	31.5.2023	0.28

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Patrik Babulic	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Dominika Csölleiová	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Dominika Galová	Prírodovedecká fakulta UK	1536 biológia
4.	Mgr. Henrieta Havalová	Prírodovedecká fakulta UK	1420 chémia
5.	Mgr. Milan Hučko	Prírodovedecká fakulta UK	1536 biológia
6.	Mgr. Iveta Jahodová	Prírodovedecká fakulta UK	1420 chémia
7.	Mgr. Ráchel Javorová	Prírodovedecká fakulta UK	1536 biológia
8.	Mgr. Nikola Klištincová	Prírodovedecká fakulta UK	1536 biológia
9.	Mgr. Bohuš Kubala	Prírodovedecká fakulta UK	1536 biológia
10.	Dr. Francesca Maisto	Prírodovedecká fakulta UK	1536 biológia
11.	Mgr. Kristina Pápayová	Prírodovedecká fakulta UK	1536 biológia
12.	Mgr. Adam Poláček	Prírodovedecká fakulta UK	1420 chémia
13.	Mgr. Andrea Vetráková	Prírodovedecká fakulta UK	1536 biológia
14.	Mgr. Silvia Žarnovičanová	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Ing. Evelína Kalocsaiová	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Filip Opaterný	Prírodovedecká fakulta UK	1536 biológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) European Network for Skin Engineering and Modeling *(European Network for Skin Engineering and Modeling)*

Zodpovedný riešiteľ:	Marcela Bučeková
Trvanie projektu:	15.9.2022 / 14.9.2026
Evidenčné číslo projektu:	CA21108
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Medical University Innsbruck
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
Absolvovanie zahraničného 6-mesačného študijného pobytu pracovníčky Dr. Marcely Bučekovej na oddelení dermatológii Lekárskej univerzity vo Viedni otvorilo nové možnosti výskumu medu na molekulárnej úrovni v dermatológii. Dr. Marcela Bučeková sa v roku 2023 pripojila do prebiehajúceho COST projektu CA21108 so zameraním na vývoj a validáciu nových kožných modelov pre in vitro testovanie.

2.) Štatistické techniky a techniky strojového učenia v štúdiách ľudských mikrobiómov *(Statistical and machine learning techniques in human microbiome studies)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	22.2.2019 / 21.8.2023
Evidenčné číslo projektu:	COST Action CA18131
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University College Cork
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
V júni 2023 sa Ľ. Kľučár zúčastnil záverečnej konferencie a MC stretnutia tohto projektu, na ktorom sa rekapitulovali dosiahnuté výsledky a finalizovala sa jedna zo spoločných záverečných vedeckých publikácií (2023, Front Microbiol 14: 1257002). Súčasťou podujatia bola aj jednodňová konferencia tematicky zameraná na aplikáciu pokročilých metód strojového učenia na analýzu mikrobiómu. Do budúcnosti ostala otvorená možnosť podania žiadosti o nasledovnícky COST projekt.

3.) BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY *(BEekeeping products valorization and biomonitoring for the SAFEty of BEEs and HONEY (BeSafeBeeHoney))*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	26.9.2023 / 25.9.2027
Evidenčné číslo projektu:	CA22105
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Instituto Nacional de Investigaç?o Agrária e Veterinária (INIAV)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Európsky mobililtný COST projekt zahájil svoju realizáciu na prvom organizačnom stretnutí v Bruseli (Belgicko) v 10/2023, kde sa stretli nominovaní delegáti z participujúcich krajín. Za Slovensko bol delegátom Dr. Juraj Majtán. Na projekte participuje aj Dr. Marcela Bučeková.

Programy: Bilaterálne - iné

4.) Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémií *(Water/Wastewater epidemiology: Development of robust and reliable molecular detection systems for surveillance of disease outbreaks)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	MOST 108-2221-E-006 -160 -MY3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Taiwan: 2
Čerpané financie:	SAS-MOST Joint Research Projects: 24996 €

Dosiahnuté výsledky:
Pokúsili sme sa zvýšiť citlivosť qRT-PCR vyvinutím jednokrokového vnoreného testu qRT-PCR s použitím jednej skúmavky (OSN-qRT-PCR). Boli vyvinuté dva varianty, ktoré boli orientované na gén nukleokapsidového fosfoproteínu (N) a na gén spike proteínu (S). Porovnala sa výkonnosť konvenčných testov PCR s reverznou transkripciou v reálnom čase (qRT-PCR) orientovaných na tieto gény s dvoma novými testami OSN-qRT-PCR. Dokončili sa analýzy vysokovýkonným sekvenovaním na báze MinION na identifikáciu mikrobioty a rezistomu vo vzorkách odpadových vôd.

Rusková, M., Bučková, M., Puškárová, A., Cíchová, M., Janská, V., Achs, A., Šubr, Z., Kuchta, T. and Pangallo, D., 2023. Comparison of ordinary reverse transcription real-time polymerase chain reaction (qRT-PCR) with a newly developed one-step single-tube nested real-time RT-PCR (OSN-qRT-PCR) for sensitive detection of SARS-CoV-2 in wastewater. Environmental Science and Pollution Research, 30(42), pp.95579-95589.

5.) Trvalo udržateľná regenerácia vody založená na filtrácii keramickými membránami *(Sustainable Water Reclamation Based on Ceramic Membrane Filtration)*

Zodpovedný riešiteľ:	Domenico Pangallo

Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	EIG_JC2019-058
Organizácia je koordinátorom projektu:	nie
Koordinátor:	TUBITAK, Marmara Research Center (TUBITAK MRC)
Počet spoluriešiteľských inštitúcií:	6 - Japonsko: 2, Slovensko: 2, Turecko: 2
Čerpané financie:	EIG Concert Japan: 5000 €

Dosiahnuté výsledky:
Vyvinutá jednokroková jednoskúmavková vnorená real-time RT-PCR (OSN-qRT-PCR) na detekciu SARS-CoV-2 v odpadových vodách bola aplikovaná na monitorovanie prítomnosti vírusu v 4 čističkách odpadových vôd na Slovensku (Bardejov, Kysucké Nové Mesto, Komárno, Poprad).

Rusková, M., Bučková, M., Puškárová, A., Cíchová, M., Janská, V., Achs, A., Šubr, Z., Kuchta, T. and Pangallo, D., 2023. Comparison of ordinary reverse transcription real-time polymerase chain reaction (qRT-PCR) with a newly developed one-step single-tube nested real-time RT-PCR (OSN-qRT-PCR) for sensitive detection of SARS-CoV-2 in wastewater. Environmental Science and Pollution Research, 30(42), pp.95579-95589.

Programy: Iné

6.) Použitie včiel, medu a ostatných včelích produktov na biomonitorovanie nízko rádioaktívneho fosfosadrovcového odpadu *(Use of honeybees, honey and other apiary products for biomonitoring of low-level radioactive phosphogypsum stacks)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.5.2023 / 30.4.2025
Evidenčné číslo projektu:	Bridge2Era-Project Grant No. 100579052
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Institute of Chemical Technology
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Participujúci pracovníci ÚMB SAV, v. v. i.: Dr. Juraj Majtán a Dr. Marcela Bučeková mali niekoľko on-line stretnutí projektového koznorcia ohľadne plánovaných pilotných experimentov a analýze vzoriek včelích produktov.

Programy: Mobility

7.) Vysokovýkonné sekvenovanie mikrobiómu listovej zeleniny pripravenej priamo na konzumáciu: optimalizácia protokolov dlhého čítania a bioinformatických výpočtových procesov *(High-throughput sequencing of ready-to-eat (RTE) leafy vegetables microbiome: optimisation of long reads protocols and computational processes)*

Zodpovedný riešiteľ:	Andrea Puškárová
Trvanie projektu:	1.1.2023 / 31.12.2024
Evidenčné číslo projektu:	CNR-SAS-2022-08
Organizácia je	áno

koordinátorom projektu:	
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	5 - Taliansko: 5
Čerpané financie:	SAV: 3000 €

Dosiahnuté výsledky:
Huby a baktérie boli izolované z rôznych hotových šalátov určených na priamu konzumáciu, ktoré boli dopestované tradične konvenčným a tiež ekologickým poľnohospodárstvom. Získané izoláty boli identifikované pomocou PCR testov orientovaných na bakteriálny gén 16S rRNA a fungálny interný transkribovaný medzerník (ITS), následne boli amplikóny sekvenované.

Domáce projekty

Programy: VEGA

1.) Regulácia interakčnej špecificity multi-PDZ proteínov

Zodpovedný riešiteľ:	Martina Baliová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0127/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3850 €

Dosiahnuté výsledky:
PDZ interakcie sú dôležitým nástrojom regulácie bunkových signálnych dráh a zohrávajú tiež dôležitú úlohu v infekcii vírusov. V našej práci sme identifikovali PDZ interakciu C-terminálneho úseku GABA transportéra GAT1 s PDZ proteínom Syntenín 1. Interakciu sme potvrdili na úrovni rekomabinatných proteínov, ako aj v neuroblastómových bunkách N2a. Interakcia pravdepodobne zohráva úlohu v regulácii aktivity GAT1 regulovaním expresie transportéra na povrchu neurónov. Zistili sme tiež veľký rozdiel v intenzite a promiskuite PDZ interakcií proteínu E vírusov SARS COV1,2 a MERS COV s multi PDZ proteínom MUPP1. Výrazne zvýšená PDZ interaktivita MERS-COV koreluje s jeho signifikantne väčšou úmrtnosťou, čo znamená že PDZ interakcie proteínu E môžu prispievať k zvýšenej dezintegrácii niektorých bunkových signálnych dráh a vyššej letalite vírusu MERS-COV.

Výstupy
1. Jahodová, I., Baliova, M., Jursky, F.:PDZ interaction of the GABA transporter GAT1 with the syntenin-1 in Neuro-2a cells. Neurochem. Int. 165 (2023) 105522.

2. Baliova, M., Jahodová, I., Jursky, F.:A Significant Difference in Core PDZ Interactivity of SARS-CoV, SARS-CoV2 and MERS-CoV Protein E Peptide PDZ Motifs In Vitro. Protein J. 42 (2023) 253-262.

2.) Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. *(How the cell finds the asymetric site of septation during sporulation of Bacillus subtilis)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0001/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13747 €

Dosiahnuté výsledky:
Publikácia:
A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, and I. Barák (2023) Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. Computational and Structural Biotechnology Journal 18, 1474-1486 (doi: 10.1016/j.csbj.2020.06.005) (IF = 7.27) (Q1 JCR2022; Q1 SJR2022)

3.) Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2 *(Study of the effect of cardiac arrhythmia-associated mutations on the structure and function of the human ryanodine receptor 2)*

Zodpovedný riešiteľ:	Vladena Bauerová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0131/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 8826 €

Dosiahnuté výsledky:
Vo štvrtom roku riešenia projektu sme sa zamerali na štúdium dvoch mutácií N-terminálnej domény ľudského ryanodínového receptora 2 (hRyR2 NTD), konkrétne M81L a L433P, ktoré sú asociované s CPVT1 a ARVC/D2. Obidve mutácie sme rekombinantne exprimovali v bakteriálnom systéme E. coli a purifikovali. Vysokú expresiu sme získali pri fragmente hRyR2 NTD1-606M81L, ktorý sme vypurifikovali vo vysokej čistote. CD-spektroskopia vypurifikovaného fragmentu potvrdila natívne zbalenie tejto mutovanej formy. Meranie termálnej stability, ktoré sme robili metódou nanoDSF ako aj CD-spektroskopiou pri viacedrých teplotách naznačujú, že uvedená mutácia mierne zvyšuje stabilitu N-terminálnej domény hRyR2. Fragment hRyR2 NTD1-606M81L sme taktiež kryštalizovali. Fragment hRyR2 NTD1-606L433P mala oveľa nižšiu hladinu expresie v porovnaní s „wild-type“ hRyR2 NTD a hRyR2 NTD1-606M81L. Analýza fragmentu hRyR2 NTD1-606L433P molekulovou dynamikou poukázala na lokálnu zmenu štruktúry v oblasti mutácie L433P, a to rozvinutie koncovej časti centrálneho ?-helixu (zvyšky 410-436).

V rámci novovzniknutej spolupráce s Dr. Jánosom Almássym (Budapešť, Maďarsko) sme sa zamerali na mapovanie Ca2+/Eu3+-väzbového miesta na luminálnej strane RyR1 a RyR2 využitím viacerých „in silico“ bioinformatických a biofyzikálnych metód. Väzba Ca2+ a Eu3+ na luminálnu stranu RyR1 a RyR2 ako aj odlišná regulácia RyR1 a RyR2 pomocou Ca2+ a Eu3+ bola potvrdená experimentálne.

Publikácie:
Zsuzsanna É. Magyar, Jacob Bauer, Vladena Bauerová-Hlinková, István Jóna, Jana Gaburjakova, Marta Gaburjakova, János Almássy. Eu3+ detects two functionally distinct luminal Ca2+ binding sites in the cardiac- and skeletal muscle ryanodine receptor. August 2023 Biophysical Journal 122 (17). DOI: 10.1016/j.bpj.2023.07.029

Plenárne prednášky na medzinárodných podujatiach:
1.12TH INTERNATIONAL CONFERENCE STRUCTURE & STABILITY OF BIOMACROMOLECULES (SSB 2023). 5-7. 09. 2023, Košice. Prednáška s názvom: „The effect of the central-helix mutations on the stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2“ (PL13). Autori: V. BAUEROVÁ-HLINKOVÁ, T. HROMÁDKOVÁ, E. KUTEJOVÁ, J. A. BAUER. Abstrakt publikovaný v „Book of Contributions“, str. 36-37. ISBN: 978-80-89656-26-4.

2.The 8th International Scientific Conference Applied Natural Sciences 2023 (ANS 2023). 18-20. 09. 2023. Donovaly. Prednáška s názvom: Differences in stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2 induced by central helix mutations“. Autori prednášky: Vladena Bauerová-Hlinková, Eva Kutejová, Jacob A. Bauer. Abstrakt publikovaný v „Book of Abstracts“, str. 32. ISBN: 978-80-572-0357-5.

4.) Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál. *(Preparation of mutant lytic and replication proteins of bacteriophages and their antibacterial potential)*

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0079/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9211 €

Dosiahnuté výsledky:
Projekt je zameraný na štúdium bakteriofágov a ich lytických a replikačných proteínov. V rámci riešenia projektu sme pokračovali v stanovení lytickej aktivity endolyzínu EN572_5. Lytické spektrum endolyzínu vykazuje v priemere 83% lytickú aktivitu voči GBS, 74 % lytickú aktivitu voči iným Streptococcus spp. (okrem S. mutans a S. thermophilus) a 16–20 % lytickú aktivitu voči kmeňom UPEC; na testovaných prospešných kmeňoch Lactobacillus spp. však nevykazoval lytickú aktivitu. Pomocou in vitro modelu UTI (spôsobeného GBS) sme stanovili lytickú aktivitu streptokokového endolyzínu v ľudskom moči. Endolyzín EN572-5 ukázal bakteriolytický účinok proti UPSA a bakteriostatický účinok proti ABSA v ľudskom moči. Pokračovali sme v charakterizácii endolyzínu EN534-C (Patent 289101 B6). Lytickú aktivitu sme stanovili pomocou kvapkového testu na 43 bunkových substrátoch bakteriálnych kmeňov: klinické kmene GBS, Streptococcus dysgalactiae, Staphylococcus aureus, Escherichia coli a zbierkové kmene: S. agalactiae a S. aureus. Z 32 klinických humánnych kmeňov GBS (s rôznym serotypom a sekvenačným typom) sme vybrali 11 kmeňov a testovali sme ich citlivosť na 11 najčastejšie používaných antibiotík. Tri kmene GBS vykazovali multirezistenciu na antibiotiká (klindamycín, erytromycín a tetracyklín) a jeden na penicilín. Pokračovali sme v štúdiu tvorby biofilmov klinických kmeňov GBS (serotyp III, V a VII) a S. aureus. Potvrdili sme tvorbu silných biofilmov u GBS serotyp III a V a S. aureus, stredne silnú u GBS Ia, VII a len slabú schopnosť tvorby biofilmu

u S. agalactiae CCM 6187. Sledovali sme vplyv endolyzínu EN534-C na tvorbu a eradikáciu biofilmov a dokázali sme, že endolyzín EN534-C je schopný eradikácie biofilmov u S. agalactiae a S. aureus.
Pripravili sme viaceré chimerické proteíny endolyzínov kombináciou ich katalytických a väzbových domén. Z pôvodného konštruktu pET28-EN572-5 sme pripravili dva expresné plazmidy pre izoláciu nových chimerických endolyzínov: EN572-5_deltaGlu (amidáza_5 a 2 domény Cpl-7; 28,46 kDa) a EN572-5_deltaGlu_SLT05 (amidáza_5, dve domény Cpl-7 a SLT05 z gp15 BFK20; 44,54 kDa). Zistili sme, že EN572-5_deltaGlu vykazoval vyššiu lytickú aktivitu voči klinickému izolátu GBS, ale nižšiu na zbierkovom kmeni GBS ako pôvodný EN572-5. Z pôvodného endolyzínu EN534-C sme pripravili tri chimerické endolyzíny kombináciou rôznych katalytických domén (GH25, SLT, amidáza_2, amidáza_3, CHAP) a väzbovej domény LysM. Chimerické proteíny sme charakterizovali a testovali ich lytickú aktivitu. Ďalší chimerický endolyzín je proteín gp24-SLT05. Obsahuje amidázu_2 z endolyzínu gp24 bakteriofága BFK20, linker a lytickú SLT doménu z gp15 BFK20. Ďalej sme charakterizovali štruktúrno-fyziologické vlastnosti SLT proteínov SLT02 a SLT05, ktoré sa líšia 25 aminokyselinami v C-terminálnej oblasti proteínu. Analyzovali sme: termálnu stabilitu v rozličných podmienkach (pH, koncentrácia NaCl, prítomnosť kofaktorov), natívnu konformáciu a folding (natívna PAGE, CD spektroskopia), homogenitu a schopnosť proteínov viazať ióny Ca2+ a Mg2+ (gélová filtrácia). Po zistení optimálnych podmienok, sme zmerali lyzozýmovú aktivitu proteínov SLT02 a SLT05 pomocou Lysozyme Activity Assay kitu (abcam). Bolo preukázané, že prídavok Mg2+ iónov mal pozitívny vplyv na zvýšenie lyzozýmovej aktivity SLT05.
Pokračovali sme v charakterizácii génu a proteínu ROBP (iniciačný replikačný proteín - organizátor fágového replizómu) bakteriofága phiBP. Bioinformatickou analýzou génovej sekvencie sme identifikovali oblasti typické pre replikačný počiatok fágov replikujúcich sa tzv. „theta-type“ mechanizmom. Pokračovali sme v analýze rekombinantného proteínu gpRO-HC a jeho bodového mutanta gpRO-HCK8A. Testovali sme oligomérny stav oboch proteínov pomocou DLS analýzy. Pre proteín gpRO-HC sme potvrdili výsledky z gélovej filtrácie, proteín tvorí oligomérny komplex s počtom podjednotiek približne 12. Hodnoty namerané pre mutant gpRO-HCK8A tiež naznačovali tvorbu oligomérneho komplexu. Testovali sme aj väzbu mutanta gpRO-HCK8A na rôzne DNA substráty a zistili sme, že v porovnaní s gpRO-HC sa tento proteín viaže na DNA slabšie.
Pokračovali sme v charakterizácii 5 bodových mutantov proteínu gp41 - helikázy z rodiny SF2 fága BFK20 s mutáciami v krajnej C-koncovej oblasti. Doplnili sme merania ATPázovej aktivity a testovali sme väzbu jednotlivých rekombinantných proteínov na rôzne DNA substráty. Pripravili sme ďalšie dva bodové mutanty, gp41A160E a gp41F243A a testovali sme ich expresiu v E. coli BL21(DE3).
Výstupy:
1.Halgasova, N., Javorova, R., Bocanova, L., Krajcikova, D., Bauer, J., Bukovska, G. Characterization of a newly discovered putative DNA replication initiator from Paenibacillus polymyxa phage phiBP. (2023) Microbiol. Res. 274: 127 437 (1-13). [IF2022 6.700] doi: 10.1016/j.micres.2023.127437
2.Kajsikova, M., Kajsik, M., Bocanova, L., Papayova, K., Drahovska, H., Bukovska, G. Endolysin EN572-5 as an alternative to treat urinary tract infection caused by Streptococcus agalactiae. (2024) Appl. Microbiol. Biotechnol. 108(1): 1-14
3.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Štruktúrna a funkčná charakteristika SLT domény bakteriofága. In Abstract book of Študentská vedecká konferencia PriF UK 2023, Bratislava, Slovakia, 2023, pp. 445 - 450. (ISBN 978-80-223-5608-4) poster
4.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: The SLT domain of the gp15 protein of phage BFK20 has the ability to degrade peptidoglycan. In Abstract book of 10th FEMS Congress of European Microbiologists, Hamburg, Germany, 2023, pp. 563.
5.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Charakteristika štruktúrnych vlastností SLT domény bakteriofága BFK20. In Abstract book of Preveda 2023 Interaktívna konferencia mladých vedcov 2023, Bratislava, Slovakia, 2023. (ISBN 978-80-974608-0-8) poster

6.Papayova, K., Bocanova, L., Kajsikova, M., Bukovska, G.: Characterization of proteins with SLT domains and their properties. Workshop: Conventional and alternative approaches combating antimicrobial resistance, Štrbské pleso, Vysoké Tatry, Slovakia, 28 Jun - 1 Jul 2023. (prednáška)

5.) Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov

Zodpovedný riešiteľ:	Monika Hofbauerová
Zodpovedný riešiteľ v organizácii SAV:	Mária Bučková
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0082/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 5972 €

Dosiahnuté výsledky:
V projekte sme hodnotili in vitro antibakteriálne vlastnosti (Escherichia coli, Staphylococcus aureus) fototermicky aktívnych nanočastíc, tymolu a karvakrolu a ich zmesí. Aplikovali sme tenkú vrstvu nanočastíc v kombinácii s rôznymi koncentráciami tymolu a karvakrolu na povrch smrekového a dubového dreva. Hodnotili sa antibakteriálne a ochranné vlastnosti týchto nanočastíc v kombinácií s tymolom a karvakrolom. Parameter Rr (pomer odrazivosti) bol určený na identifikáciu farebných zmien substrátov. Digitálna mikroskopia bola použitá na meranie oblasti kolonizácie bakterií a tiež ich prieniku do analyzovaných materiálov.

Hofbauerová, M., Rusková, M., Puškárová, A., Bučková, M., Annušová, A., Majková, E., Šiffalovič, P., Granata, G., Napoli, E., Geraci, C. and Pangallo, D., 2023. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly (?-caprolactone) Nanocapsules. Molecules, 28(3), p.1018.

6.) Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...? *(Amylolytic enzymes – thousands of sequences, hundreds of structures, dozens of specificities – and what about evolution...?)*

Zodpovedný riešiteľ:	Štefan Janeček
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0146/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 12077 €

Dosiahnuté výsledky:
(1)
Na základe in silico analýzy enzýmov z alfa-amylázovej rodiny GH119 bola detailne popísaná jej príbuznosť s rodinou GH57.

Polacek A. & Janecek S.: Sequence-structural features and evolution of the alpha-amylase family GH119 revealed by the in silico analysis of its relatedness to the family GH57. Biologia 2023, 78: 1847-1860. https://doi.org/10.1007/s11756-023-01349-y

(2)
V rámci dlhoročnej medzinárodnej spolupráce s prof. Birte Svenssonovou (Danish Technical University, Kgs. Lyngby, Denmark) bola publikovaná štúdia o úlohe škrob-viažucej domény z rodiny CBM20 v 4-alfa-glukanotransferázach z rodiny GH77.

Wang Y., Wu Y., Christensen S.J., Janecek S., Bai Y., Moeller M.S. & Svensson B.: Impact of starch binding domain fusion on activities and starch product structure of 4-alpha-glucanotransferase. Molecules 2023, 28: 1320. https://doi.org/10.3390/molecules28031320

7.) Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmiterov.

Zodpovedný riešiteľ:	František Jurský
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0126/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3682 €

Dosiahnuté výsledky:
Transportéry neurotramsmiterov obsahujú relatívne krátke, sekvenčne nehomologické N-terminálne úseky. Naša bioinformatická analýza, CD spektrá a rezistencia k tepelnej denaturácii indikujú ich neštruktúrovaný charakter. Táto vlastnosť sa odzrkadľuje aj transformácii klasickej 465-595 nm metachromázie na metachromáziu do blízskej infračervenej oblasti počas ich interakcie s Bradfordovým činidlom. V súčasnosti nieje známe či sa zo sekvenčne nehomologických N-terminálnych úsekov dá extrahovať informácia o spôsobe ich odpovede na špecifické versus spoločné signálne stimuly. Pomocou kombinácie prekrytia hydrofobnych profilov s pozíciami kalpainových štiepnych miest a spekrálnej analýzy sa nám podarilo definovať mikroštrukturálnu podobnosť N-terminálnych úsekov niektorých transportérov napriek minimálnej aminokyselinovej podobnosti.

8.) Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces *(Signal cascades of regulation of sigma factors of RNA polymerase in response to stress, cell and physiological differentiation in soil bacteria of the genus Streptomyces)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0026/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: VEGA SAV: 15885 €

Dosiahnuté výsledky:

V svojom prirodzenom prostredí sú baktérie vystavené rôznym stresom, pričom odozva na tieto stresy je regulovaná najmä sigma faktormi RNA polymerázy, ktoré riadia expresiu génov potrebných na prekonanie týchto nepriaznivých podmienok. V bakteriálnom modeli jednobunkoveh Gram-pozitívnej baktérie Bacilus subtilis je to stresový sigma faktor SigB, ktorý je regulovaný fosforylačným mechanizmom prostredníctvom anti-sigma faktora RsbW, anti-anti-sigma faktora RsbV, a dvoch PP2C fosfatáz, RsbP a RsbU. SigB je v nepritomnost stresu blokovaný s komplexe s RsbW. Po strese je táto väzba uvoľnená defosforylonaným anti-anti-sigma faktorom RsbV, prostredníctvom fosfatáz RsbP/RsbU, ktoré defosforulujú RsbV-P. Po odozneni stresu, je RsbV opäť fosforylovaný kinázovou HATPase_c doménou RsbW a dochádza opäž k interakcii a inhibícii SigB s RsbW.

Gram-pozitívne myceliálne pôdne baktérie rodu Streptomyces podliehajú výnimočnému procesu morfologickej diferenciácie sprevádzanej produkciou mnohých antibiotík. Na rozdiel od B. subtilis, modelový organizmus, Streptomyces coelicolor obsahuje až 9 homológov tohto stresového sigma faktora SigB z B.subtilis, 45 homológov anti-sigma faktora RsbW, 17 homológov anti-anti-sigma faktora RsbV a 44 homológov aktivačných PP2C fosfatáz RsbU/RsbP. Tieto homológy (SigB, SigF, SigG, SigH, SigI, SigK, SigL, SigM, SigN) hrajú dominantnú úlohu najmä v kontrole morfologickej diferenciácie a v odozve na osmotický stres.

V predchádzajúcej správe sme charakterizovali sigma faktor SigH, ktorý má dvojitú úlohu pri regulácii reakcie na osmotický stres a morfologickej diferenciácii. Jeho aktivita je negatívne regulovaná jeho špecifickým anti-sigma faktorom UshX a anti-anti-sigma faktor BldG sa podieľa na aktivácii SigH pri osmotickom strese. UshX však nemá doménu HATPase_c a nie je schopný fosforylovať BldG. Táto negatívna spätná fosforylácia sa uskutočňuje SigF-špecifickým anti-sigma faktorom RsfA. Regulácia je zložitejšia, pretože 13 ďalších RsbW homológnych anti-sigma faktorov interaguje s BldG a sedem z nich špecificky fosforyluje BldG. Ukázalo sa, že jeden z nich, SCO7328, interaguje s tromi sigma faktormi, SigG, SigK a SigM. Tieto údaje naznačujú, že BldG aktivuje niekoľko homológov SigB v S. coelicolor.

Kritický signál pre aktiváciu homológov SigB je transdukovaný aktiváciou špecifickej, v súčasnosti neznámej PP2C fosfatázy. V B. subtilis hrajú RsbU a RsbP kľúčovú úlohu pri aktivácii SigB. Avšak S. coelicolor A3(2) obsahuje najmenej 44 homológov RsbU/RsbP a mnohé z nich obsahujú veľké množstvo iných domén zapojených do signálnych transdukčných dráh (PAS, PAC, GAF) a transmembránových domén. To naznačuje komplexnú súhru rôznych signálov pri aktivácii špecifických anti-anti-sigma faktorov. Žiadny z týchto homológov RsbU/RsbP však nebol študovaný v S. coelicolor A3(2). Za účelom charakterizácie týchto homológov RsbU/RsbP v aktivácii kľúčového anti-anti-sigma faktora BldG sme sa pokúsili pripraviť a optimalizovať systém pre charakterizáciu špecifickej defosforylácie BldG-P. Pre otestovanie takéhoto systému sme použili známu kaskádu aktivácie SigB u B. subtilis. Jednotlivé regulačné proteíny (RsbV, RsbW, RsbU, RsbP) sme nadprodukovali a izolovali. Optimalizovali sme systém detekcie fosforylovaného a defosforylovaného RsbV pomocou natívnej PAGE a dokázali sme špecifickú fosforyláciu RsbV kinázou RsbW a nasledne defosforyláciu RsbV-P pomocou oboch fosfatáz RsbP a RsbU. Tento optimalizovaný systém sme aplikovali pre identifikáciu a charakterizáciu špecifických PP2C fosfatáz defosforylujúcich fosforylovaný kľúčový anti-anti-sigma faktor BldG. Bioinformatickou analýzou 44 homológov RsbU/RsbP sme vybrali 5 zástupcov (SCO0451, SCO3691, SCO3723, SCO4695, SCO7320), ktoré obsahovali jedinú PP2C doménu a neobsahovali membránové domény a iné regulačné domény. Uvedené proteíny sme nadprodukovali a po ich izolácii testovali na špecificitu defosforylácie BldG-P. Iba jediná fosfatáza SCO3691 špecifický defosforylovala BldG-P. Rozrušili sme gén SCO3691 v chromozóme S. coelicolor M145, avšak delécia tohto génu nemala žiaden fenotyp v diferenciáciia a pri stresových podmienkach. Imunoblotovou analýzou pomocou protilátok voči BldG, sme in vivo v priebehu diferenciácie charakterizovali fosforyláciu BldG v divom type S. coelicolor M145 a v mutantoch pre anti-sigma faktory rsfA a SCO7328 a v

mutante pre identifikovanú špecifickú PP2C fosfatázu SCO3691. Na natívnej PAGE sme v divom type detegovali obidve formy, defosforylovanú BldG, ako aj fosforylovanú BldG-P, pričom hladina BldG-P narastala v priebehu diferenciácie. V mutante rsfA chýbala fosforylovaná forma BldG-P, čo potvrdilo špecificitu kinázy RsfA pre BldG aj in vivo. Avšak v oboch mutantoch pre SCO7328 a SCO3691, nedochádzalo k zmene oboch foriem v porovnaní s divým typom, čo naznačuje existenciu ďalších špecifických PP2C fosfatáz pre BldG.
Použitím E. coli dvojplazmidového systému sme v predchádzajúcej časť riešenia projektu identifikovali promótory rozpoznávané homológmi SigB. Takmer všetky promótory boli rozpoznané viacerými homológmi SigB. Neboli však nájdené žiadne špecifické sekvencie týchto promótorov. Na preskúmanie tohto krížového rozpoznávania in vivo sme vybrali jeden z týchto promótorov, ktorý riadi expresiu génu ssgB špecifického pre sporuláciu. Pomocou luciferázového reportéra sme detegovali aktivitu promótora ssgBp v priebehu diferenciácie na tuhom médiu v divom type a v mutantoch pre všetkých deväť homológov sigB. Analýza ukázala, že ssgBp je závislý od troch sigma faktorov, SigH, SigN a SigI. Aby sme identifikovali nukleotidy v oblasti ? 10, ktoré sú zodpovedné za výber špecifického homológa SigB, testovali sme mutantné promótory so zmenenými poslednými tromi nukleotidmi v tejto oblasti v dvojplazmidovom systéme. Niektoré mutantné promótory boli špecificky rozpoznané odlišnou sadou homológov SigB. Analýza týchto mutantných promótorov in vivo ukázala úlohu týchto nukleotidov. Konzervovaný nukleotid A v polohe 5 bol nevyhnutný pre aktivitu promótora a dva variabilné nukleotidy v polohách 4 a 6 boli zodpovedné za čiastočnú selektivitu rozpoznávania promótora homológmi SigB.

Publikácie

1, Hamed M.B, Busche T, Simoens K, Carpentier S, Kormanec J, Van Mellaert L, Anné J, Kalinowski J, Bernaerts K, Karamanou S, Economou A: Enhanced protein secretion in reduced genome strains of Streptomyces lividans. Microbial Cell Factories (2023) in press.

2, Sevcikova B, Rezuchova B, Novakova R, Opaterny F, Javorova R, Csolleiova D, Feckova L, Kormanec J: Cross-recognition of the ssgBp promoter, which controls the expression of the sporulation–specific cell division gene ssgB, by nine SigB homologues in Streptomyces coelicolor A3(2). Preprints (2023) 2023090591; https://doi.org/10.20944/preprints202309.0591.v1
3, Rebets Y, Kormanec J, Lutzhetskyy A, Bernaerts K, Anné J: Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In: Streit WR, Daniel R. (eds.) Metagenomics. Methods in Molecular Biology, vol. 2555, Humana New York, NY, 2023, pp. 213-260. doi: 10.1007/978-1-0716-2795-2_16, ISBN: 978-1-0716-2794-5.

Účasť na domácich konferenciách

1, Kormanec J, Opaterny F, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R: Differential in vivo recognition of promoters recognized by nine SigB homologues present in Streptomyces coelicolor A3(2). Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 160. ISBN 978-80-8240-047-5.

2, Sevcikova B, Rezuchova B, Novakova R, Feckova L, Kormanec J.: The pleiotropic anti-anti-sigma factor BldG is specifically dephosphorylated by the phosphatase SCO3691 to activate SigH and SigF pathway in Streptomyces coelicolor A3(2). Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology

with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 188. ISBN 978-80-8240-047-

9.) Úloha mitochondriálnej proteázy Lon a fosforylácie proteínov mitochondriálneho nukleoidu v homeostáze a udržiavaní mtDNA 2/0069/23

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	2/0069/23
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10907 €

Dosiahnuté výsledky:
V rámci projektu sme venovali pozornosť charakterizácii úlohy LON proteázy pri stabilite a funkcii dýchacieho reťazca v kvasinke S. cerevisiae, konkrétne analýzy expresie významných mt proteínov zahrnutých v udržiavaní stability mtDNA a to stanovením množstva RNA pomocou qRT-PCR v štandardnom kmeni S. cerevisiae a kmeni s disrupciou LON proteázy.
Študovali sme tiež vplyv väzby polyfosfátov na aktivitu hLON. Ukázali sme, že táto väzba vedie k výraznému zníženiu aktivít hLON (proteázovej, peptidázovej a ATPázovej) a destabilizácii samotnej hexamérnej štruktúry hLON.

10.) Štúdium a charakterizácia Min proteínov z Clostridioides difficile. *(Study and characterization of Clostridioides difficile Min proteins.)*

Zodpovedný riešiteľ:	Naďa Labajová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0033/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 7499 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme pokračovali v lepšej charakterizácii interakcie DivIVA proteínu s membránou. Proteín DivIVA sa zúčastňuje bunkového delenia a je zodpovedný za špecifickú lokalizáciu Min komplexu, ktorý je negatívnym regulátorom delenia. Pomocou AFM, TEM a Cryo-EM, v spolupráci s laboratóriami Nanobiotechnológií a Kryo-elektronovej mikroskopie a tomografie CEITEC, Brno, ČR sme získali cenné informácie o štruktúrach, ktoré DivIVA vytvára na membráne. Predpokladáme, že získané výsledky v tomto roku opublikujeme. Začali sme tiež s identifikáciou nových proteínových partnerov DivIVA. Predbežné výsledky naznačujú, že je protein DivIVA v kontakte s kardiolipín-syntázou, enzýmom zapojeným do syntézy negatívneho fosfolipidu kardiolipínu.

11.) Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie *(Lactoferrin and lactoferricin as natural plasmin inhibitors: From the structure resolution to therapeutic applications)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0152/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 8337 €

Dosiahnuté výsledky:
Opublikovali sme veľký prehľadový článok "Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense" v časopise PHARMACEUTICS (15,4, DOI10.3390/pharmaceutics15041056). Vedúci výskumu Vladimír Leksa bol pozvaný prezentovať naše výsledky na 13TH C1-INHIBITOR DEFICIENCY AND ANGIOEDEMA WORKSHOP (4-7-máj, 2023). V súčasnosti pracujeme na dokončení dvoch manuskriptov týkajúcich sa dvoch hlavných cieľov projektu - štúdia funkcií laktoferínu a diagnostiky pľúcnej fibrózy.

12.) Vývoj nových metodických prístupov na hodnotenie kvality medu *(The development of new methods for assessing honey quality)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0022/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10675 €

Dosiahnuté výsledky:
Publikácie:
BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - KOHÚTOVÁ, Lenka - DANCHENKO, Maksym - BARÁTH, Peter - MAJTÁN, Juraj**. Antibacterial activity and bee-derived protein content of honey as important and suitable complementary tools for the assessment of honey quality. In Journal of Food Composition and Analysis, 2023, vol. 123, art. no. 105610. (2022: 4.3 - IF, Q2 - JCR, 0.651 - SJR, Q1 - SJR). ISSN 0889-1575.

BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - GUEYTE, Romain - CHAMBREY, Céline - MAJTÁN, Juraj**. Characterisation of physicochemical parameters and antibacterial properties of New Caledonian honeys. In PLoS ONE, 2023, vol. 18, iss. 10, art. no. e0293730. (2022: 3.7 - IF, Q2 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1932-6203.

13.) Bio-čistenie farebných škvŕn na historických dokumentoch: mikrobiálne, enzymatické a chemické prístupy *(Bio-cleaning of colored stains on historical documents: microbial, enzymatic, and chemical approaches)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0099/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10922 €

Dosiahnuté výsledky:
Pokúsili sa odstrániť niekoľko typov plesňových škvŕn pomocou rôznych enzymatických stratégií z modelových papierov. Bohužiaľ, doteraz sme nenašli úspešnú stratégiu odstraňovania tohto druhu škvŕn. Máme však ešte rok na to, aby sme vyskúšali iné postupy.

Sanmartín, P., Bosch-Roig, P., Pangallo, D., Kraková, L. and Serrano, M., 2023. Unraveling disparate roles of organisms, from plants to bacteria, and viruses on built cultural heritage. Applied Microbiology and Biotechnology, 107(7-8), pp.2027-2037.

14.) Dešifrovanie ancestrálnych sekvencií hémových kataláz pre rekonštrukciu ich evolúcie najmä v patogénoch a výber jedinečných kandidátov pre syntetickú biológiu. *(Deciphering ancestral sequences of heme catalases for inferring their evolution mainly in emerging pathogens and selecting unique candidates for synthetic biology.)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	VEGA-2-0012-22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 13373 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme sa zamerali na podrobný fylogenomický výskum hémových kataláz. Z predošlých publikácií bolo známe, že túto génovú rodinu je možné rozdeliť do 3 hlavných evolučných vetiev. Najmä vo vetve prokaryotických kataláz vedúcich k ancestrálnym sekvenciám však bolo potrebné vykonať podrobnejšie analýzy a zahrnúť novo osekvenované gény ktoré poukazujú na pôvod tejto rodiny antioxidačných enzýmov. Celkový počet úplných proteínových sekvencií sme navýšili až na 279 pričom sú v ňom zahrnuté aj unikátne génové fúzie kataláz s lipoxygenázami. Optimalizovali sme parametre pre evolučnú rekonštrukciu metódou maximum likelihood za použitie matrice Le-Gascuel.
V publikácii, ktorá vyšla v časopise Antioxidants (2023) 12:1382 sme porovnávali enzýmovú reaktivitu a proteínovú stabilitu bifunkčných kataláz-peroxidáz izolovaných z termofilnej a mezofilnej askomycéty. Pritom sme objavili pomocou hmotnostnej spektroskopie prítomnosť post-translačnej modifikácie v aktívnom centre študovaných enzýmov a pripravili aj 2 bodové mutácie v ktorých táto modifikácia nebola prítomná. Termofilná varianta našla konkrétnu aplikáciu v odstraňovaní farebných pečiatok na starých listinách, čo bolo publikované v článku, ktorý vyšiel v časopise Int. J. Biol. Macromol. (2023) 242:124599.

Programy: APVV

15.) Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine *(Tree and country - influence of trees on diversity of soil microorganisms in agricultural land)*

Zodpovedný riešiteľ:	Slavomír Adamčík
Zodpovedný riešiteľ v organizácii SAV:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0257
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Botanický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6199 €

Dosiahnuté výsledky:
Pre štúdium špecifickej biodiverzity poľnohospodárskej krajiny bola zvolené mangánová peroxidáza ako typický marker oxidoreduktáz v mikrobióme. Kvantifikovali sme natívnu expresiu mangánových peroxidáz v početných pôdnych vzorkách získaných v rôznej vzdialenosti of rastúcich solitérnych dubov ako bola požiadavka projektu. Táto enzýmová aktivita ktorá sa meria spektrofotometricky vypovedá o prítomnosti najmä vláknitých húb a čiastočne aj niektorých baktérií. Tieto aktivity je možné odlíšiť od seba inými metódami ale fungálne peroxidázy sú jednoznačne extracelulárne enzýmy takže ich aktivitu je možné stanoviť priamo v pôdnych vzorkách bez potreby homogenizácie buniek. Takto sme to aj realizovali a kvantifikovali.

16.) Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry *(Asymmetric cell division during bacterial endospore formation)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 23810 €

Dosiahnuté výsledky:
Za posledný polrok riešenia projektu sa dokončili posledné naplánované experimenty a hlavne sa postúpilo v nových experimentoch, ktoré vyplynuli z predchádzajúcich výsledkov a ktoré neboli pôvodne plánované. Prvým cieľom projektu bolo študovať úlohu špecifických proteínov Bacilus subtilis počas sporulácie na určenie presnej lokalizácie asymetrického septa. Na základe jednotlivý cieľov sme v roku 2023 uskutočnili posledné plánované experimenty.

Publikácia:
A. Vetráková, R. Kalianková Chovanová, R. Rechtoríková, D. Krajčíková, and I. Barák (2023) Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. Computational and Structural Biotechnology Journal 18, 1474-1486 (doi: 10.1016/j.csbj.2020.06.005) (IF = 7.27)

(Q1 JCR2022; Q1 SJR2022)

17.) Molekulárny mechanizmus meracieho zariadenia na nájdenie správneho miesta bakteriálneho asymetrického bunkového delenia *(Molecular mechanism of measuring device for finding the proper site of bacterial asymmetric cell division)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2023 / 30.6.2027
Evidenčné číslo projektu:	APVV-22-0303
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 21800 €

Dosiahnuté výsledky:
V rámci tohto nového projekty, riešeného od polovice roka, sa pripravili nové plazmidy s fúznymi génmi a geneticky modifikované kmene Bacillus subtilis.

18.) Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním *(Colored stains on historical papers: biological and chemical characterization coupled with removal solutions)*

Zodpovedný riešiteľ:	Mária Bučková
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0059
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 12500 €

Dosiahnuté výsledky:
Výsledky UV-VIS meraní a HPLC analýz pigmentov fungálnych a bakteriálnych kmeňov potvrdili trendy z predchádzajúceho obdobia v zmysle prítomnosti určitých typov monomérnych a polymérnych zlúčenín v rámci širokej skupiny polyfenolických zlúčenín. Použité nešpecifické chemické metódy umožnili kvantifikovať určité skupiny týchto farebných zlúčenín, najmä chlorofyly, karotenoidy a antokyány, ako aj flavonoidy a bezfarebné katechíny, ktoré okrem iných zlúčenín tvorili profil metabolitov v extraktoch skúmaných kmeňov. Tento profil sa pravdepodobne môže meniť v súvislosti s rôznorodosťou podmienok pri odbere kmeňov (lokalita, klimatické podmienky a pod.), ktoré môžu ovplyvniť kondíciu kmeňa a schopnosť produkcie určitých typov metabolitov. Uvedené sme zistili porovnaním profilácie tých istých kmeňov odobraných v roku 2022.

Farkas, Z., Puškárová, A., Šišková, A.O., Poljovka, A., Zámocký, M., Vadkerti, E., Urík, M., Farkas, B., Bučková, M., Kraková, L. and Pangallo, D., 2023. Evaluation of enzymatic stamp removal strategies on handmade (cellulose-based) and machine-made (lignin-containing) papers. International Journal of Biological Macromolecules, 242, p.124599.

Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Rusková, M., Kvalová, K., Kraková, L.,

Bučková, M. and Pangallo, D., 2023. Colored stains: Microbial survey of cellulose-based and lignin rich papers. International Journal of Biological Macromolecules, 241, p.124456.

19.) Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov *(Harnessing the immunological mechanisms in various subtypes of B cell lymphoma)*

Zodpovedný riešiteľ:	Dana Cholujová
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0212
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7431 €

Dosiahnuté výsledky:
Dáta hmotnostnej cytometrie sme analyzovali pomocou programovacieho jazyka R a doplnkovej knižnice SPADE. Na základe SPADE výsledkov sme identifikovali rôzne vývojové štádia B-bunkového vývojového radu. Rozdiely medzi jednotlivými vývojovými štádiami sme zobrazili na SANKEY diagramoch pomocou R knižníc ggsankey a ggalluvial. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

20.) Nádorové imunoeditovanie v mnohopočetnom myelóme: imunitné kontrolné body a klinický význam *(Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)*

Zodpovedný riešiteľ:	Jana Jakubíková
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0183
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 6556 €

Dosiahnuté výsledky:
Dáta hmotnostnej cytometrie od pacientov s mnohopočetným myelómom sme analyzovali SPADE algoritmom v programovacom jazyku R. Na základe klinických dát sme rozdelili pacientov do skupín. SPADE výsledky z rôznych pacientských skupín sme následne porovnali štatistickým testom (Mann-Whitney-U test). Výsledky štatistického porovnania sme zobrazili na volcano plot-och pomocou R knižnice ggplot2. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

21.) Identification of new treatment options in refractory testicular germ cell tumors *(Identification of new treatment options in refractory testicular germ cell tumors)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0158
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4618 €

Dosiahnuté výsledky:
Pracovali sme na analýze RNA-seq dát získaných zo vzoriek pacientov s nádormi semenníkov. Podstatou analýzy bolo odlíšiť pacientov rezistentných voči podávaným chemoterapeutikám (najmä cisplatine) od zdravých jedincov na základe zmien v génovej expresii 2 549 analyzovaných génov spájaných s nádorovými ochoreniami. Analýza pozostávala z využitia štatistických nástrojov ako DESeq a prístupu strojového učenia v programovacích jazykoch R a Python. Identifikovali sme desiatky génov so signifikantne zmenenou expresiou, teda génov potenciálne ovplyvňujúcich senzitivitu na cisplatinu. Výsledky práce boli prezentované formou posteru na medzinárodnej konferencii ISMB/ECCB 2023 v Lyone.

22.) Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie *(Preparation of new antibiotics and antitumor agents by manipulations of secondary metabolite genes and synthetic biology methods)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 37610 €

Dosiahnuté výsledky:
V predchádzajúcej etape projektu sme pripravili viaceré konštrukty pre integráciou silného promótora kasOp* spolu s reverzne orientovaným génom rezistenie na apramycin a silným obojstranný terminatorom T5 pred viaceré biosyntetické alebo regulačné gény viacerých silentných biosyntetických génových klastrov (BGC) v genóme nášho modelového kmeňa S. lavendulae subsp. lavendulae CCM 3239. Homologickou rekombináciou sme úspešne integrovali túto kazetu do divého kmeňa S. lavendulae subsp. lavendulae CCM 3239, ako aj do mutanta S. lavendulae ?aur1 s deletovaným BGC pre auricín a vo viacerých prípadoch sme dostali integranty so správne integrovanou kazetou pred viaceré gény v silentných BGC, čo sme verifikovali Southern blot hybridizáciou a genomickým sekvenovaním. Bioinformatická analýza genómu S. lavendulae subsp. lavendulae CCM 3239 odhalila 30 silentných BGC, ktoré kódujú viaceré predpokladané biosyntetické gény pre predpokladané biologicky aktívne produkty viacerých tried. Sedem z týchto BGC kódujú gény pre potenciálne polyketidy, z nich jeden (BGC2) predstavuje predpokladaný BGC pre polyketid syntetázu (PKS) typu I. PKS typu I sú veľké modulárne multifunkčné proteíny, ktoré syntetizujú polyketidový reťazec neopakujúcim spôsobom v jednom kondenzačnom cykle pre každú doménu. Každý modul obsahuje súbor odlišných acyltransferázových, ketosyntázových a acylových nosičových proteínových katalytických domén, ktoré spolupracujú pri vytváraní ?-ketoesterového medziproduktu. Iné moduly ako ketoreduktáza, dehydratáza a enoylreduktáza sú

zodpovedné za modifikáciu ketoskupiny. V procese tvorby polyketidu sa rastúci polyketidový reťazec prenáša z jedného modulu do druhého, kým sa celá molekula neuvoľní z posledného modulu tioesterázou. PKS typu I sú zodpovedné za produkciu redukovaných polyketidov, ako sú makrolidy, polyétery a polyény. Podarilo sa nám úspešne integrovať promótor kasOp* pred gén SLAV_02840 kódujúci transkripčný aktivátor rodiny LAL a gén SLAV_02776 kódujúci biosyntetický enzým PSK typu I v tomto klastri. Fenotypová analýza (TLC s následnou biochromatografiou a HPLC) mutantných kmeňov S. lavendulae, kasOp::2840 v porovnaní s divým kmeňom odhalila dramatickú nadprodukciu žltej zlúčeniny neaktívnej voči baktériam, ale inhibujúcej rast kvasiniek. HPLC analýza a HR MS hmotnostná analýza dokázala, že sa jedná o polyén Strevertén A. Zaujímavé však bolo, že mutantné kmene S. lavendulae, kasOp::2776 nadprodukovali podobnú žltú zlúčeninu inhibujúcu rast kvasiniek, ktorá sa líšila od Streverténu A. Štruktúrna analýza dokázala, že sa jedná o modifikovaný a dekarboxylovaný nový streverten, ktorý mal vyššiu biologickú aktivitu.
Osem z týchto bioinformaticky charakterizovaných BGC kóduje potenciálne neribozomálne-syntetizované peptidové syntetázy (NRPS). Na overenie stratégie aktivácie sme vybrali BGC11 pre predpokladanú NRPS, ktorá obsahuje štyri biosyntetické gény kódujúce dimodulárne NRPS umiestnené v operóne. Podarilo sa nám úspešne integrovať promótor kasOp* pred gén SLAV_09235 kódujúci prvú NRPS v operóne. Podobná fenotypová analýza mutantného kmeňa S. lavendulae, kasOp::9235 v porovnaní s WT odhalila dramatickú nadprodukciu antibakteriálnej zlúčeniny inhibujúcej rast gram-pozitívnej baktérie Bacillus subtilis. Tieto výsledky potvrdili účinnú aktiváciu silentného BGC2 pre PKS typu I ako aj BGC11 pre NRPS pomocou tohto optimalizovaného systému.
Pomocou metódy REDIRECT sme deletovali viaceré potenciálne biosyntetické gény auricínového klastra v genóme S. lavendulae subsp. lavendulae CCM 3239. Všetky pripravené mutanty sme verifikovali Southern blot hybridizáciou. Pomocou TLC, biochromatografiou a HPLC sme postupne analyzovali produkciu sekundárnych metabolitov u pripravených mutantov. U niektorých mutantov nebola postihnutá biosyntéza auricínu, takže uvedené gény nie sú esenciálne pre biosyntézu auricínu. U ďalších došlo k výraznému poklesu produkcie auricínu, takže tieto gény sú dôležité pri biosyntéze auricínu, ale daný krok je sprostredkovaný aj ďalším homologickým génom. V prípade mutantov v gene sa48, sa10, sa11, sa12, a sa13 nedochádzalo k produkcii auricínu, ale iného sekundárneho metabolitu, pravdepodobne medziproduktu auricínu.
V predchádzajúcej etape sme charakterizovali medziprodukt auricínu SA48A vytvorený po delecii génu sa48, kódujúcom homológ polyketid cyklázy/dehydratázy. Tento bol však nestabilný a podliehal spontannej laktonizácii na stabilný product SA48B. Po štruktúrnej analýze SA48B sme zistili sme, že sa jedná o aglykón auricínu (so stratou cukornej zložky D-forozamín), ktorý bol oveľa stabilnejší ako aj aktívnejší voči Gram-pozitívnym baktériám ako aj proti štyrom vybraným nádorovým bunkovým líniam (Human ovarian carcinoma cell lines A2780, cisplatin resistant cells A2780/CP a breast cancer cell lines MDA-MB-231 and MCF-7) ako auricín. V súčasnej etape sme ďalej charakteizovali tento sĺubný biologicky aktívny produkt. Naši partneri na UEO SAV zhodnotili protinádorový účinok SA48B na mnohopočetný myelóm (MM) analýzou cytotoxickej aktivity na 13 bunkových línií MM (MM.1S, OPM-1, OPM-2, RPMI-S, RPMI-LR5, RPMI-DOX40, RPMI -MR20, KMS-11, OCI-My5, OCI-My7, JJN-3, U266 a L-363 bunky), ako aj na bunkovej línii ľudskej myeloidnej leukémie K-562 a línii ľudských stromálnych buniek HS-5. Celkovo SA48B vykazoval protinádorový cytotoxický potenciál s výraznou anti-MM aktivitou. Na vyhodnotenie, či znížené prežívanie MM bunkových línií po ovplyvnení SA48B súvisí s indukciou apoptózy, boli MM bunky vystavené rôznym koncentráciam SA48B počas 24, 48 a 72 hodín. Transmembránová externalizácia fosfatidylserínu, ktorú sme detegovali prietokovou cytometriou pomocou farbenia annexínom V, predstavuje jeden z prvých znakov apoptózy. Okrem toho sme na rozlíšenie medzi včasnou apoptózou (Annexin V+ a PI-), neskorou apoptózou (Annexin V+ a PI+/-) a nekrózou (Annexin V+ a PI+) použili farbenie spolu s jadrovým interkalátorom propidium jodid (PI), ktorý vstupuje len do buniek s poškodenou plazmatickou membránou. Stredná indukcia apoptózy bola pozorovaná pri ovplyvnení SA48B v koncentrácii 100 ng/ml, čo sa prejavilo

nárastom včasnej apoptotickej populácie buniek a následne zvýšeným percentom neskorej apoptotickej a nekrotickej populácie pri koncentrácii 300 a 600 ng/ml u väčšiny MM bunkových línií. Na stanovenie inhibície bunkovej proliferácie sme vyhodnotili distribúciu buniek v rôznych fázach bunkového cyklu analýzou prietokovou cytometriou v MM bunkách po ovplyvnení rôznymi koncentráciami SA48B počas 24, 48 a 72 hodín. Analýza bunkového cyklu ukázala akumuláciu buniek v G2/M fáze pri vyšších koncentráciách SA48B (300 a 600 ng/ml) v bunkách po 24 hod ovplyvnení, sprevádzanú poklesom v G0/G1 alebo S fáze. Podobne sme po aplikácii SA48B zaznamenali aj mierny nárast buniek v G2/M fáze bunkového cyklu. Po dlhšom 72 hod pôsobení SA48B došlo k upregulácii v G2/M fáze bunkového cyklu. Tieto výsledky naznačujú, že anti-MM účinky SA48B boli sprevádzané blokom v G2/M fáze bunkového cyklu.
Pripravili sme integračný vektor na báze fága PhiC31, v ktorom sme dali pod kontrolu promótora kasOp* operon aur1PO kódujúci auricín-špecifický aktivátor Aur1P a jeho koaktivátor Aur1O (pPhiC31-aur1PO) a integrovali sme ho do divého typu S. lavendulae subsp. lavendulae CCM 3239. HPLC a TLC analýza ukázala predpokladaný 1,5-násobný nárast auricínu. Avšak prekvapujúco v rekombinantnom kmeni došlo aj k 11-násobnému nárastu produkcie žltej látky s aktivitou oproti kvasinkám, ktorú sme na základe spektra, Rt hodnoty a hmoty definovali ako Streverténe A. Z výsledkov vyplýva, že dochádza ku prepojeniu regulácie Streverténu A regulátormi z auricínového klastra Aur1PO.
V predchádzajúcej časti projektu sme pripravili a optimalizovali sme nový systém syntetickej biológie založený na monocistronických jednotkách (kasOp*-RBS-gén-terminátor), umožňujúcom ich postupné pripájanie do dlhých monocistronických syntetických génových klastrov. Tento systém sme verifikovali postupným klonovaním a pripájaním biosyntetických génov pre aromatické polyketidové antibiotikum landomycín (lanA, lanB, lanC, lanF, lanD, lanL, lane, lanM, lanN), kde po integrácii výsledných konštruktov do chromozómu heterologického hostiteľského kmeňa S. coelicolor M1146 dochádzalo k produkcii jednotlivých medziproduktov landomycínového aglykónu, a to rabelomycínu, dehydrorabelomycínu a tetrangulolu. V ďalšej časti sme tento systém obdobne použili na postupné pripájanie časti operónu biosyntetických génov z BGC pre polyketidovú protinádorovú látku mitramycín (mtmP, mtmK, mtmS, mtmQ, mtmY, mtmL, mtmX, mtmTI, mtmTII, mtmOII), kde po integrácii výsledného konštruktu v integračnom vektore na báze fágu PhiC31 pOri6-mtmPKSTIOIYQLOIIOIITIIXop do chromozómu S. coelicolor M1146 dochádzalo k produkcii medziproduktu mitramycínu, 4?demetylpremitramycinonu (4-DMPC). Podobne sme tento systém testovali pre dva ďalšie mitramycínové biosyntetické gény, lanMI a lanMII, kódujúce O-metyltansferázu a C-metyltransferázu, ktoré by mali katalyzovať prenos metylu do polohy 4-OH alebo C-2 mitramycínového aglykónu 4-DMPC. Oba gény boli podobne amplifikované a klonované za tvorby nezávislým monocistronických jednotiek kasOp* - mtmMI - T8 a kasOp* - mtmMII - T10, ktoré boli postupne klonované a kombinované v kompatibilnom integračnom vektore pOri12, za vzniku pOri12-mtmMI a pOri12-mtmMIMII, ktoré boli integrované do chromozómu S. coelicolor M1146 obsahujúceho integrovaný kompatibilný vektor pOri6-mtmPKSTIOIYQLOIIOIIITIIXop. HPLC analýza s v prípade pOri12-mtmMI ukázala, že pík pre 4-DMPC sa redukoval a vznikol nový pík s odlišnou Rt hodnotou. Je spektrálne vlastnosti a hmotnosť stanovená pomocou HR ESI MS dokázala, že sa jedná o správne metylovaný premitramycinón (PMC). Avšak v prípade pOri12-mtmMIMII dochádzalo iba k tvorbe tej istej látky ako v prípade pOri12-mtmMI. Preto druhá C-metyltransferáza MtmMII pravdepodobne nie je aktívna na tento neglykozylovaný produkt, a pre danú metyláciu pozície C2 je potrebný čiastočne glykozylovaný medziprodukt.
Týmto ďalším experimentom sme overili tento nový systém syntetickej biológie založenom na monocitronických transkripčných jednotkách, čo umožňuje jeho použitie pri biosyntéze nových a modifikovaných sekundárnych metabolitov s potenciálne novými biologickými vlastnoťami.

Publikácie

1, Csolleiova D, Javorova R, Novakova R, Feckova L, Matulova M, Opaterny F, Rezuchova D, Sevcikova B, Kormanec J: Investigating the initial steps of auricin biosynthesis using synthetic biology. AMB Express 13 (2023) 83.

Kapitola v knihe
1, Rebets Y, Kormanec J, Lutzhetskyy A, Bernaerts K, Anné J: Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In: Streit WR, Daniel R. (eds.) Metagenomics. Methods in Molecular Biology, vol. 2555, Humana New York, NY, 2023, pp. 213-260. doi: 10.1007/978-1-0716-2795-2_16, ISBN: 978-1-0716-2794-5.

Účasť na domácich konferenciách

1, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R, Opaterny F, Kormanec J,: Overproduction of the auricin-specific activator Aur1P induced type I polyketide synthase product strevertene A. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 129. ISBN 978-80-8240-047-5.

2, Javorova R, Opaterny F, Feckova L, Rezuchova B, Csolleiova D, Novakova R, Kormanec J.: Activation of a silent biosynthetic gene cluster for a type I polyketide synthase secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 155. ISBN 978-80-8240-047-5.

3, Novakova R, Feckova L, Uhliarikova I, Matulova M, Patoprsty V, Opaterny F, Javorova R, Jakubikova J, Sedlak J, Rezuchova B, Csolleiova D, Kormanec J.: Characterization of the late step of auricin biosynthesis in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 170. ISBN 978-80-8240-047-5.

4, Opaterny F, Feckova L, Javorova R, Rezuchova B, Csolleiova D, Novakova R, Kormanec J.: Activation of a silent biosynthetic gene cluster for an unknown NRPS secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 175. ISBN 978-80-8240-047-5.

5, Rezuchova B, Opaterny F, Feckova L, Javorova R, Csolleiova D, Novakova R, Kormanec J.: A new synthetic biology system for investigating the biosynthesis of aromatic polyketide antibiotics. Abstract book, XXVII. Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies, High Tatras, SR, 10.9-13.9 2023, p. 185. ISBN 978-80-8240-047-5.

23.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. APVV-19-0298 *(Interaction between proteases, chaperones and kinases in*

stress condition cause by pathological conditions.)

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0298
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:
Pripravili sme fosforylované formy proteínu TRAP1 a ko-šaperónov mortalínu GrpE1, Hep1 a charakterizovali sme tvorbu a vlastnosti komplexu mortalínu s GrpE1 pomocou elektrónovej mikroskopie. Študovali sme zmenu šaperónovej aktivity v pripravených fosforylovaných proteínoch a zaviedli sme novú, citlivejšiu metódu merania šaperónovej aktivity pomocou luciferázy.

24.) Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19 *(The double-edged sword of the plasminogen system: From homeostasis maintenance to COVID-19)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0513
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 33806 €

Dosiahnuté výsledky:
Opublikovali sme veľký prehľadový článok "Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense" v časopise PHARMACEUTICS (15,4, DOI10.3390/pharmaceutics15041056). Vedúci výskumu Vladimír Leksa bol pozvaný prezentovať naše výsledky na 13TH C1-INHIBITOR DEFICIENCY AND ANGIOEDEMA WORKSHOP (4-7-máj, 2023). V súčasnosti pracujeme na dokončení dvoch manuskriptov týkajúcich sa dvoch hlavných cieľov projektu - štúdia funkcií laktoferínu a diagnostiky pľúcnej fibrózy.

25.) Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu *(New insight into biochemical and functional properties of the major antibacterial components of honey)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0262
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských	0

inštitúcií:	
Čerpané financie:	APVV: 35406 €

Dosiahnuté výsledky:
Publikácia:
BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - GUEYTE, Romain - CHAMBREY, Céline - MAJTÁN, Juraj**. Characterisation of physicochemical parameters and antibacterial properties of New Caledonian honeys. In PLoS ONE, 2023, vol. 18, iss. 10, art. no. e0293730. (2022: 3.7 - IF, Q2 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1932-6203.

26.) Mikrobiálne kontaminanty v tradičných slovenských syroch: ich eliminácia vedeckými nástrojmi založenými na kvantitatívnej analýze a matematickom modelovaní *(Microbial contaminants in traditional Slovakian cheeses: their elimination by scientific tools based on quantitative analysis and mathematical modelling)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0031
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave Fakulta chemickej a potravinárskej technológie
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 10000 €

Dosiahnuté výsledky:
Bola dokončená analýza na určenie rastových charakteristík a dynamiky Mucor circinelloides. Rast húb na Skim Milk agare pri rôznych teplotách (6, 8, 12, 15, 18, 21, 33, 37 °C) a koncentrácii NaCl (0, 1, 2 %). Prebieha spracovanie údajov.

27.) Štartovacie a prídavné kultúry na výrobu slovenskej bryndze s tradičnými organoleptickými vlastnosťami. *(Microbial starters and adjunct cultures for production of Slovakian bryndza cheese with traditional organoleptic properties)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0001
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národné poľnohospodárske a potravinárske centrum; Výskumný ústav potravinársky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 22000 €

Dosiahnuté výsledky:
Vzorky zo vzduchu, povrchov a srvátky sme odobrali v ďalších 4 rôznych mliekarňach po celom Slovensku [Farma Bukovina, Farma Vtáčnik, Farma Liptovská Teplička, Farma Zlatý Hýľ (Nováčany) a Farma Oľga Apoleníková (Pružina)]. Vzorky sa použili na skúmanie mikrobioty

prístupmi závislými od kultúry (tradičné mikrobiologické metódy) a nezávislými od kultúry (vysokovýkonné sekvenovanie, platforma MinION). V súčasnosti prebieha bioinformatická analýza.

Conference: Preveda Interaktívna Konferencia Mladých Vedcov 2023; 22. máj - 30. jún, 2023. Metagenomická analýza mikrobiómu srvátky využitím Oxford Nanopore sekvenovania. Nikola Klištincová, Francesca Maisto, Mária Bučková, Domenico Pangallo, Janka Koreňová, Tomáš Kuchta.
Conference: Študentská vedecká konferencia PriF UK 2023; 26. apríl 2023, Bratislava. Metagenomická analýza environmentálych vzoriek vzduchu odobraných z výrobne bryndze. Nikola Klištincová, Francesca Maisto, Mária Bučková, Domenico Pangallo

28.) Interakcia proteínu Mmi1/TCTP s mitochondriami *(Interaction of Mmi1/TCTP protein with mitochondria)*

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD-21-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:
Počas druhého roku riešenia projektu sme pripravili expresné konštrukty na expresiu TCTP proteínu v E. coli a to wt verzie a siedmych fosforylovaných verzií proteínu pomocou ortogonálneho translačného systému pre inkorporáciu fosfo-serínu a pCMF (nehydrolyzovateľného analógu fosfotyrozínu). Pripravili sme postup na izoláciu TCTP a Mmi1 proteínu, optimalizovali roztok pre proteín pomocou nanoDSF a kryštalizovali wt verzie proteínov. Exprimovali a izolovali sme fosforylované verzie Mmi1 a TCTP proteínu pre in-vitro charakterizáciu a väzbu na mitochondrie. Naizolovali sme kvasinkové mitochondrie z delta Mmi1 kmeňa pre pulldown a interakciu s Mmi1 proteínom.

29.) Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modely diabetu. *(Gut microbiota and diabetic peripheral neuropathy: effect of cemtirestat in rat models of diabetes.)*

Zodpovedný riešiteľ:	Milan Štefek
Zodpovedný riešiteľ v organizácii SAV:	Domenico Pangallo
Trvanie projektu:	1.8.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0411
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 30000 €

Dosiahnuté výsledky:

Bioinformatická analýza črevného mikrobiómu 16 potkanov preukázala, že liek (Cemtirestat) nemá významný vplyv na zloženie mikrobiálnej komunity v ošetrených vzorkách, pretože nevykazovali jasné oddelenie od neošetrených vzoriek. Skôr sa zdá, že každý potkan má podobnosti a rozdiely v porovnaní s ostatnými, čo naznačuje, že každý potkan má jedinečný mikrobióm, ktorý je určený faktormi, ako je genetické pozadie, pohlavie a fyzické faktory.

Conference: Power of Microbes in Industry and Environment; May 15-18, 2023; Poreč, Croatia. Poster: Screening of Mutual Interactions of Intestinal Microbiota and Cemtirestat in Rat Models of Diabetes. Zuzana Farkas, Jelena Pavlović, Magdaléna Rusková, Marek Lepáček, Nikola Klištincová, Francesca Maisto, Mária Bučková, Andrea Puškárová, Marta Šoltésová Prnová, Milan Štefek, Domenico Pangallo.

Conference: 12TH PROBIOTICS, PREBIOTICS & NEW FOODS, NUTRACEUTICALS, BOTANICALS & PHYTOCHEMICALS FOR NUTRITION & HUMAN, ANIMAL AND MICROBIOTA HEALTH, THE INFLUENCE OF CEMTIRESTAT ON INTESTINAL MICROBIOTA IN RAT MODELS OF DIABETES; ROME, SEPTEMBER 16 - 19, 2023. Mária Bučková, Andrea Puškárová, Nikola Klištincová, Francesca Maisto, Jelena Pavlović, Marek Lepáček, Marta Šoltésová Prnová, Domenico Pangallo.

30.) Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách *(Fungal Hybrid Heme Peroxidases from Primeval Forest with Application in Environmental Biotechnologies)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0284
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 16498 €

Dosiahnuté výsledky:
Realizovali sme systematický screening rôznych génových rodín peroxidáz v pôdnych vzorkách získaných z Badínskeho pralesa i príbuzných lesných lokalít. Získané výsledky zamerané na rozsiahle sekvenčné fylogenetické analýzy boli prezentované v recenzovaných publikáciách. V práci Biology-Basel (2023) 12:19 sme sa zamerali na evolučnú štúdiu génov zahrnutých do metabolického cyklu askorbátu a glutatiónu s antioxidačnými účinkami. V článku Antioxidants (2023) 12:1387 bolo cieľom demonštrovať vplyv expresie vybranej askorbátovej peroxidázy na toleranciu modelových rastlín voči stresu spôsobeného suchotou pôdy. V ďalšej publikácii ktorá vyšla v Antioxidants (2023) 12:1382 sme porovnávali enzýmovú reaktivitu bifunkčných kataláz-peroxidáz izolovaných z vybraných termofilných a mezofilných askomycét. Objavili sme prítomnosť unikátnej post-translačnej modifikácie v aktívnom centre oboch študovaných enzýmov. Termofilný variant našiel uplatnenie aj v odstraňovaní farebných pečiatok ako bolo publikované v článku Int. J. Biol. Macromol. (2023) 242:124599 a napokon sme urobili fylogenetický výskum enzýmov protoporfyrinogén oxidáz, ktoré sú zodpovedné za biosyntézu prostetickej hémovej skupiny so železom, ktorá je nevyhnutná pri fungovaní všetkých hémových peroxidáz a kataláz. Výsledky tejto analýzy boli publikované v Biology-Basel (2023) 12:1527.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

31.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2020 / 30.6.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Univerzitný Vedecký park
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ŠF: 183000 €

Dosiahnuté výsledky:
Spracovali sme na uskladnenie ďalších 550 vzoriek výkalov zdravých ľudí, ľudí s Lynchovým syndrómom a pacientov postihnutých kolorektálnym karcinómom. Z týchto vzoriek sa extrahovala DNA a mikrobiómová analýza vzoriek sa uskutočnila pomocou sekvenátora MiSeq (Illumina). Bioinformatická identifikácia mikrobiómu sa spracováva.

Planý, M., Sitarčík, J., Pavlović, J., Budiš, J., Koreňová, J., Kuchta, T. and Pangallo, D., 2023. Evaluation of bacterial consortia associated with dairy fermentation by ribosomal RNA (rrn) operon metabarcoding strategy using MinION device. Food Bioscience, 51, p.102308.

Programy: DoktoGranty

32.) Štúdium injekčného mechanizmu bakteriofága BFK20 pomocou dvojhybridného bakteriálneho systému (BACTH) *(The Study of Phage BFK20 Injection Mechanism Using Two Hybrid Bacterial System (BACTH))*

Zodpovedný riešiteľ:	Kristína Pápayová
Trvanie projektu:	1.1.2023 / 31.12.2023
Evidenčné číslo projektu:	APP0418
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoktoGrant SAV: 2000 €

Dosiahnuté výsledky:
Cieľom projektu bolo bližšie preskúmanie možných interakcií na rozhraní bakteriofág – hostiteľ medzi chvostíkovým proteínom bakteriofága BFK20 a membránovými proteínmi [Brevibacterium] flavum CCM 251. Na základe predošlých štúdií sme pomocou bioinformatickej analýzy identifikovali 4 membránové proteíny, ktoré by mohli slúžiť ako receptory pre väzbu fágového chvostíka – ABC transportér (ATP binding cassete), PPI (peptidyl-prolyl izoméra), FKBP (peptidyl-prolyl cis-trans izomeráza typu FKBP) a PTS transportér (fosfo-transferázový systém). Na základe analýzy sekundárnej štruktúry chvostíkového proteínu gp15 bakteriofága BFK20 sme identifikovali dve doménové oblasti (SLT a TMP), ktoré boli neskôr použité pri konštrukcii rekombinantných vektorov. Kotransformáciou pomocou dvojhybridného bakteriálneho systému (BACTH) sme v bunkách E. coli BTH101 súčasne exprimovali dvojicu rekombinantných proteínov (SLT, TMP a ABC, FKBP, PPI, PTS). Interakcia proteínov sa v BACTH systéme prejavuje beta-galaktozidázovou aktivitou na špecifickom substráte, avšak v nami zvolených

kombináciách proteínov sa nepotvrdila žiadna z predpokladaných interakcií. Nakoľko domény SLT a TMP tvoria len podielovú časť chvostíkového proteínu gp15, nie je možné s určitosťou potvrdiť absenciu interakcií medzi fágovým chvostíkom a vybranými membránovými proteínmi hostiteľskej bunky. Gp15 je najväčším proteínom bakteriofága BFK20 a jeho štruktúrne vlastnosti a interakcie s inými proteínmi sa môžu značne líšiť v porovnaní so samostatnými proteínovými doménami.

Programy: IMPULZ

33.) Implementácia G4 DNA do genetického inžinierstva baktérii. *(G-quadruplex DNA for Genetic Engineering in Bacteria)*

Zodpovedný riešiteľ:	Ján Jamroškovič
Trvanie projektu:	1.11.2023 / 31.10.2028
Evidenčné číslo projektu:	IM-2022-62
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Projekt sa začal v Novembri 2023 na ÚMB SAV nástupom Dr. Jamroškoviča do zamestnania. V Decembri sa jeho tím sa rozšíril o dve odborné pracovníčky. Hlavným cieľom v roku 2023 bola príprava nového laboratória a pracovnej skupiny.

Programy: Plán obnovy EÚ

34.) Covid-19 a dlhý covid na molekulárnej úrovni - biomarkery, nástroje a ciele pre diagnostiku a terapiu *(Covid-19 and long covid at the molecular level - biomarkers, tools and targets for diagnosis and therapy)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.9.2023 / 31.8.2027
Evidenčné číslo projektu:	09I03-03-V02-00047
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
Cieľom projektu je charakterizovať laktoferín ako potenciálne doplnkové liečivo pri akútnom aj chronickom ochorení covid-19. Projekt začal v septembri 2023 nástupom Mgr. Patrika Babulica na doktorandské štúdium.

35.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine č. 09I03-03-V01-00113 *(The stipend for a scientist threatened by the war in Ukraine č. 09I03-03-V01-00113)*

Zodpovedný riešiteľ:	Tetiana Moskalets

Trvanie projektu:	1.11.2022 / 31.10.2025
Evidenčné číslo projektu:	09I03-03-V01-00113
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Plán obnovy EÚ: 55150 €

Dosiahnuté výsledky:

V minulom roku sa nám podarilo opublikovať veľký prehľadový článok zameraný na funkcie laktoferínu so zvláštnym zreteľom na jeho potenciálnu úlohu pri liečbe covidu-19. RNDr. Tetiana Moskalets sa naplno zapojila aj do práce na článku aj do experimentálnej práce.

PhD T. Moskalets v sledovanom období zvládla všeobecné metódy práce s bunkovými kultúrami, Western Blot a PCR. Vylepšila prvok techniky týkajúci sa vlastností nanášania substrátu na polyvinylidénfluoridovú membránu počas detekcie proteínov.

Spomedzi množstva biologicky aktívnych rastlinných látok sa pani Moskalets, spoliehajúcej sa na látky rastlinného pôvodu s potenciálnou antifibrotickou aktivitou, podarilo vybrať tie z nich, najmä bioflavonoidy (Hesperidín, Hesperetin, Kurkumín a Kvercetín), ktoré vykazujú jasný inhibičný účinok na proces epiteliálno-mezenchymálnej transformácie (EMT). Pokračuje tiež v objavovaní molekulárnych mechanizmov vplyvu rastlinných látok na proces inhibície epiteliálno-mezenchymálnej transformácie. Už identifikovala niektoré biochemické markery (a-SMA, Vimentin, fibronektín, kolagén, E-kadherín a in.), ako dôležité kritériá EMT a reverzibilný proces mezenchymálno-epiteliálnej transformácie (MET). Prijaté údaje sú plánované na zverejnenie.

Počas mája až júna 2023 bola p. Tetiana školiteľkou Stepana Sarukhanjana, študenta tretieho ročníka Katedry biochémie Fakulty biológie a medicíny Kyjevskej národnej univerzity Tarasa Ševčenka (Ukrajina), ktorý ovládal metódy SDS-PAGE, Západné blot, kultiváciu buniek a funkčnú analýzu in vitro. V júni 2023 študent úspešne obhájil prax s 98 bodmi (A).

Od septembra 2023 dodnes je RNDr. PhD T. Moskalets oficiálnou vedeckou školiteľkou bakalárskej práce študenta IV ročníka KNU S. Sarukhanyana, ktorý pracuje na téme „Štúdium molekulárnych mechanizmov fibrózy za biochemickými markeramy na príklade buniek pľúcneho epitelu A 549“ (obhajobná bakalárska práca je plánovaná na máj 2024). Vo svojej práci S. Sarukhanyan pod vedením p. Tetiany študuje látky a ich koncentrácie, ktoré spôsobujú proces pľúcnej fibrózy, skúma látky a ich koncentrácie (chemické, už známe aj menej známe rastlinné látky) ako potenciálnych antagonistov procesu pľúcnej fibrózy podľa biochemických markerov.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 REBERTS, Xuriy - KORMANEC, Ján - LUTZHETSKYY, Andriy - BERNAERTS, Kristel - ANNÉ, J. Cloning and Expression of Metagenomic DNA in Streptomyces lividans and Its Subsequent Fermentation for Optimized Production. In Metagenomics : Methods and Protocols. 3. ed. - New York : Humana Press : Springer Nature, 2023, pp. 213-260. (2022: 0.422 - SJR, Q3 - SJR). ISBN 978-1-0716-2794-5. Dostupné na: https://doi.org/10.1007/978-1-0716-2795-2_16

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 FARKAS, Bence - VOJTKOVÁ, Hana - FARKAS, Zuzana - PANGALLO, Domenico - KASÁK, Peter - LUPINI, Antonio - KIM, Hyunjung - UHRÍK, Martin - MATÚŠ, Peter**. Involvement of Bacterial and Fungal Extracellular Products in Transformation of Manganese-Bearing Minerals and Its Environmental Impact. In International Journal of Molecular Sciences, 2023, vol. 24, iss. 11, art. no. 9215. (2022: 5.6 - IF, Q1 - JCR, 1.154 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms24119215

ADCA02 FARKAS, Zuzana - PUŠKÁROVÁ, Andrea - OPÁLKOVÁ ŠIŠKOVÁ, Alena - POLJOVKA, Andrej - ZÁMOCKÝ, Marcel - VADKERTI, Eva - URÍK, Martin - FARKAS, Bence - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Evaluation of enzymatic stamp removal startegies on handmade (cellulose-based) and machine-made (lignin-containing) papers. In International Journal of Biological Macromolecules, 2023, vol. 242, art. no. 124599. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124599

ADCA03 HALGAŠOVÁ, Nora - JAVOROVÁ, Ráchel - BOCÁNOVÁ, Lucia - KRAJČÍKOVÁ, Daniela - BAUER, Jacob - BUKOVSKÁ, Gabriela**. Characterization of a newly discovered putative DNA replication initiator from Paenibacillus polymyxa phage phiBP. In Microbiological Research, 2023, vol. 274, art. no. 127437. (2022: 6.7 - IF, Q1 - JCR, 1.168 - SJR, Q1 - SJR). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2023.127437

ADCA04 HOFBAUEROVÁ, Monika, Benkovičová - RUSKOVÁ, Magdaléna - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ANNUŠOVÁ, Adriana - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - GRANATA, Giuseppe - NAPOLI, Edoardo - GERACI, C. - PANGALLO, Domenico**. Protection and Disinfection Activities of Oregano and Thyme Essential Oils Encapsulated in Poly(ε-caprolactone) Nanocapsules. In Molecules, 2023, vol. 28, no. 3, art. no. 1018. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules28031018 (VEGA 2/0082/22 : Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov)

ADCA05 CHOLUJOVÁ, Dana - BEKE, Gábor - HUNTER, Zachary R. - HIDESHIMA, Teru

- FLORES, Ludmila - ZELEZNIKOVA, Tatiana - HARRACHOVA, Denisa - KĽUČÁR, Ľuboš - LEIBA, Merav - DRGOŇA, Ľuboš - TREON, Steven P. - KASTRITIS, Efstathios - DORFMAN, David M. - ANDERSON, Kenneth C. - JAKUBÍKOVÁ, Jana**. Dysfunctions of innate and adaptive immune tumor microenvironment in Waldenström macroglobulinemia. In International Journal of Cancer, 2023, vol. 152, no. 9, p. 1947-1963. (2022: 6.4 - IF, Q1 - JCR, 2.259 - SJR, Q1 - SJR). ISSN 0020-7136. Dostupné na: https://doi.org/10.1002/ijc.34405 (APVV-16-0484 : Nádorová heterogenita v mnohopočetnom myelóme: evolúcia a klinická významnosť. APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov. APVV-20-0183 : Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)

ADCA06 JAHODOVÁ, Iveta - BALIOVÁ, Martina** - JURSKÝ, František**. PDZ interaction of the GABA transporter GAT1 with the syntenin-1 in Neuro-2a cells. In Neurochemistry International, 2023, vol. 165, art. no. 105522. (2022: 4.2 - IF, Q2 - JCR, 0.958 - SJR, Q2 - SJR). ISSN 0197-0186. Dostupné na: https://doi.org/10.1016/j.neuint.2023.105522

ADCA07 JAKUBÍKOVÁ, Jana** - CHOLUJOVÁ, Dana - BEKE, Gábor - HIDESHIMA, Teru - KĽUČÁR, Ľuboš - LEIBA, Merav - JAMROZIAK, Krzysztof - RICHARDSON, Paul G. - KASTRITIS, Efstathios - DORFMAN, David - ANDERSON, Kenneth C. Heterogeneity of B cell lymphopoiesis in patients with premalignant and active myeloma. In JCI Insight, 2023, vol. 8, no. 3, art. no. e159924. (2022: 8 - IF, Q1 - JCR, 3.277 - SJR, Q1 - SJR). ISSN 2379-3708. Dostupné na: https://doi.org/10.1172/jci.insight.159924 (2019/14-BMCSAV-9 : Vývoj nového diagnostického a prediktívneho vysokodimenzionálneho imunofenotypizačného nástroja pre hematologické malignity. APVV-16-0484 : Nádorová heterogenita v mnohopočetnom myelóme: evolúcia a klinická významnosť. APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov. VEGA 2/0144/20 : Anti-myelómová aktivita nových kompozitných nanomateriálov a ich mechanizmus účinku in vitro a in vivo. VEGA 2/0147/20 : Zhodnotenie imunitných kontrolných bodov v B-bunkových malignitách)

ADCA08 JARDIN-MESSEDER, Douglas - DE SOUZA-VIEIRA, Ygor - CORRêA LAVAQUIAL, Lucas - CASSOL, Daniela - GALHEGO, Vanessa - BASTON, Gabriel Afonso - FELIX-CORDEIRO, Thais - ZÁMOCKÝ, Marcel - MARGIS-PINGEIRO, Márcia - SACHETTO-MARTINS, Gilberto. Ascorbate-Glutathione Cycle Genes Families in Euphorbiaceae: Characterization and Evolutionary Analysis. In Biology-Basel, 2023, vol. 12, no. 1, art. no. 19. (2022: 4.2 - IF, Q2 - JCR, 0.779 - SJR, Q1 - SJR). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology12010019 (VEGA č. 2/0012/22)

ADCA09 KODRÍKOVÁ, Rebeka - PAKANOVÁ, Zuzana** - KRCHŇÁK, Maroš - ŠEDIVÁ, Mária - ŠESTÁK, Sergej - KVĚTOŇ, Filip - BEKE, Gábor - ŠALIGOVÁ, Anna - SKALICKÁ, Katarína - BRENNEROVÁ, Katarína - JANČOVÁ, Emília - BARÁTH, Peter - MUCHA, Ján - NEMČOVIČ, Marek. N-Glycoprofiling of SLC35A2-CDG: Patient with a Novel Hemizygous Variant. In Biomedicines, 2023, vol. 11, iss. 580, art. no. 11020580. (2022: 4.7 - IF, Q1 - JCR, 0.897 - SJR, Q1 - SJR). ISSN 2227-9059. Dostupné na: https://doi.org/10.3390/biomedicines11020580

ADCA10 MAGYAR, Zsuzsanna E. - BAUER, Jacob - BAUEROVÁ-HLINKOVÁ, Vladena - JÓNA, István - GABURJÁKOVÁ, Jana - GABURJÁKOVÁ, Marta - ALMÁSSY, János**. Eu3+ detects two functionally distinct luminal Ca2+ binding sites in ryanodine receptors. In Biophysical Journal, 2023, vol. 122, no. 17, pp. 3516-3531. (2022: 3.4 - IF, Q2 - JCR, 1.216 - SJR, Q1 - SJR). ISSN 0006-3495. Dostupné na: https://doi.org/10.1016/j.bpj.2023.07.029 (VEGA č. 2/0131/20 : Štúdium vplyvu

mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2. Vega č. 2/0008/20 : Regulácia ryanodínových receptorov (RYR) z mozgu potkana vo fyziologických a patofyziologických podmienkach. ITMS 305011X666 : Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl)

ADCA11 PAVLOVIĆ, Jelena - PUŠKÁROVÁ, Andrea - PLANÝ, Matej - FARKAS, Zuzana - RUSKOVÁ, Magdaléna - KVÁLOVÁ, Katarína - KRAKOVÁ, Lucia - BUČKOVÁ, Mária - PANGALLO, Domenico**. Colored stains: Microbial survey of cellulose-based and lignin rich papers. In International Journal of Biological Macromolecules, 2023, vol. 241, art. no. 124456. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.124456

ADCA12 PLANÝ, Matej - SITARČÍK, Jozef - PAVLOVIĆ, Jelena - BUDIŠ, Jaroslav - KOREŇOVÁ, Janka - KUCHTA, Tomáš - PANGALLO, Domenico**. Evaluation of bacterial consortia associated with dairy fermentation by ribosomal RNA (rrn) operon metabarcoding strategy using MinION device. In Food Bioscience, 2023, vol. 51, art. no. 102308. (2022: 5.2 - IF, Q1 - JCR, 0.872 - SJR, Q1 - SJR). ISSN 2212-4292. Dostupné na: https://doi.org/10.1016/j.fbio.2022.102308

ADCA13 RUSKOVÁ, Magdaléna - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - CÍCHOVÁ, Marianna - JANSKÁ, Veronika - ACHS, Adam - ŠUBR, Zdeno W. - PANGALLO, Domenico. Comparison of ordinary reverse transcription real-time polymerase chain reaction (qRT-PCR) with a newly developed one-step single-tube nested real-time RT-PCR (OSN-qRT-PCR) for sensitive detection of SARS-CoV-2 in wastewater. In Environmental science and pollution research, 2023, vol. 32, no. 42, pp. 95579-95589. (2022: 5.8 - IF, Q1 - JCR, 0.944 - SJR, Q1 - SJR). ISSN 0944-1344. Dostupné na: https://doi.org/10.1007/s11356-023-29123-2 (APVV-18-0005 : Analýza faktorov ovplyvňujúcich odpoveď plodiny na infekciu potyvírusmi na molekulárnej a bunkovej úrovni)

ADCA14 SANMARTÍN, Patricia - BOSCH-ROIG, Pilar - PANGALLO, Domenico** - KRAKOVÁ, Lucia - SERRANO, Miguel. Unraveling disparate roles of organisms, from plants to bacteria, and viruses on built cultural heritage. In Applied Microbiology and Biotechnology, 2023, vol. 107, iss. 7-8, pp. 2027-2037. (2022: 5 - IF, Q1 - JCR, 0.968 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-023-12423-5

ADCA15 ŠŤASTNÝ, Dominik - PETRISKOVÁ, Lívia - TAHOTNÁ, Dana - BAUER, Jacob - POKORNÁ, Lucia - HOLIČ, Roman - VALACHOVIČ, Martin - PEVALA, Vladimír - COCKCROFT, Shamshad - GRIAČ, Peter**. Yeast Sec14-like lipid transfer proteins Pdr16 and Pdr17 bind and transfer the ergosterol precursor lanosterol in addition to phosphatidylinositol. In Febs Letters, 2023, vol. 597, no. 4, pp. 504-514. (2022: 3.5 - IF, Q2 - JCR, 1.276 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: https://doi.org/10.1002/1873-3468.14558 (Vega č. 2/0027/19 : Charakterizácia biosyntetickej dráhy kardiolipínu kvasinky Schizosaccharomyces pombe ako modelovej eukaryotickej bunky. Vega č. 2/0106/20 : Príjem a metabolizmus externých sterolov počas hypoxického stresu u kvasiniek. VEGA č. 2/0131/20 : Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2. APVV-19-0094 : Obranné mechanizmy mikrobiálnych a živočíšnych buniek pri znižovaní ich citlivosti na rastlinné defenzné zlúčeniny. APVV-20-0166 : Nekonvenčné kvasinky ako producenty lipidov s vysokou pridanou hodnotou)

ADCA16 WANG, Yu - WU, Yazhen - CHRISTENSEN, Stefan Jarl - JANEČEK, Štefan - BAI, Yuxiang - MøLLER, Marie Sofie** - SVENSSON, Birte**. Impact of Starch Binding Domain Fusion on Activities and Starch Product Structure of

4-α-Glucanotransferase. In Molecules, 2023, vol. 28, no. 3, art. no. 1320. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules28031320

ADCA17 ZÁMOCKÝ, Marcel** - FERIANC, Peter. Discovering the deep evolutionary roots of serum amyloid A protein family. In International Journal of Biological Macromolecules, 2023, vol. 252, art. no. 126537. (2022: 8.2 - IF, Q1 - JCR, 1.187 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2023.126537

ADCA18 ZÁMOCKÝ, Marcel - HOFBAUER, S. - GABLER, Thomas - FURTMULLER, P.G. The Molecular Evolution, Structure, and Function of Coproporphyrinogen Oxidase and Protoporphyrinogen Oxidase in Prokaryotes. In Biology-Basel, 2023, vol. 12, iss. 12, art. no. 1527. (2022: 4.2 - IF, Q2 - JCR, 0.779 - SJR, Q1 - SJR). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology12121527

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 POLÁČEK, Adam - JANEČEK, Štefan**. Sequence-structural features and evolution of the α-amylase family GH119 revealed by the in silico analysis of its relatedness to the family GH57. In Biologia, 2023, vol. 78, iss. 7, pp. 1847-1860. (2022: 1.5 - IF, Q4 - JCR, 0.34 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-023-01349-y

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMA01 BALIOVÁ, Martina - JAHODOVÁ, Iveta - JURSKÝ, František**. A Significant Difference in Core PDZ Interactivity of SARS-CoV, SARS-CoV2 and MERS-CoV Protein E Peptide PDZ Motifs In Vitro. In Protein Journal, 2023, vol. 42, no. 4, p. 253-262. (2022: 3 - IF, Q3 - JCR, 0.853 - SJR, Q1 - SJR). ISSN 1572-3887. Dostupné na: https://doi.org/10.1007/s10930-023-10103-x (Vega č. 2/0127/21 : Regulácia interakčnej špecificity multi-PDZ proteínov)

ADMA02 BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - GUEYTE, Romain - CHAMBREY, Céline - MAJTÁN, Juraj**. Characterisation of physicochemical parameters and antibacterial properties of New Caledonian honeys. In PLoS ONE, 2023, vol. 18, iss. 10, art. no. e0293730. (2022: 3.7 - IF, Q2 - JCR, 0.885 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0293730 (VEGA č. 2/0022/22. APVV-21-0262 : Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu)

ADMA03 BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - KOHÚTOVÁ, Lenka - DANCHENKO, Maksym - BARÁTH, Peter - MAJTÁN, Juraj**. Antibacterial activity and bee-derived protein content of honey as important and suitable complementary tools for the assessment of honey quality. In Journal of Food Composition and Analysis, 2023, vol. 123, art. no. 105610. (2022: 4.3 - IF, Q2 - JCR, 0.651 - SJR, Q1 - SJR). ISSN 0889-1575. Dostupné na: https://doi.org/10.1016/j.jfca.2023.105610 (VEGA č. 2/0022/22)

ADMA04 CSÖLLEIOVÁ, Dominika - JAVOROVÁ, Ráchel - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - MATULOVÁ, Mária - OPATERNÝ, Filip - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján**. Investigating the initial steps of auricin biosynthesis using synthetic biology. In AMB Express, 2023, vol. 13, art. no. 83. (2022: 3.7 - IF, Q2 - JCR, 0.693 - SJR, Q2 - SJR). ISSN 2191-0855. Dostupné na: https://doi.org/10.1186/s13568-023-01591-2

ADMA05 D'ELIA, Domenica** - TRUU, Jaak - LAHTI, Leo - BERLAND, Magali - PAPOUTSOGLOU, Georgios - KĽUČÁR, Ľuboš. Advancing microbiome research with machine learning: key findings from the ML4Microbiome COST action. In Frontiers in Microbiology, 2023, vol. 14, art. no. 1257002. (2022: 5.2 - IF, Q2 - JCR, 1.19 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2023.1257002

ADMA06 JARDIM-MESSEDER, Douglas - CAVERZAN, Andreia - BALBINOTT, Natalia - MENGUER, Paloma K. - PAIVA, Ana L. S. - LEMOS, Moaciria - CUNHA, Juliana R. - GAETA, Marcos L. - COSTA, Miguel - ZÁMOCKÝ, Marcel - SAIBO, Nelson J. M. - SILVEIRA, Joaquim A. G. - MARGIS, Rogério - MARGIS-PINHEIRO, Márcia. Stromal Ascorbate Peroxidase (OsAPX7) Modulates Drought Stress Tolerance in Rice (Oryza sativa). In Antioxidants, 2023, vol. 12, iss. 2, art. no. 387. (2022: 7 - IF, Q1 - JCR, 1.084 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox12020387 (VEGA č. 2/0012/22. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách)

ADMA07 MEŠKOVÁ, Klaudia - MÁRTONOVÁ, Gabriela - HRASNOVA, Patricia - SINSKA, Kristina - ŠKRABANOVÁ, Michaela - FIALOVÁ, Ľubica - NJEMOGA, Stefana - CEHLÁR, Ondrej - PARMAR, Oľga - KOLENKO, Petr - PEVALA, Vladimír - ŠKRABANA, Rostislav**. Cost-Effective Protein Production in CHO Cells Following Polyethylenimine-Mediated Gene Delivery Showcased by the Production and Crystallization of Antibody Fabs. In Antibodies [textový dokument (print)], 2023, vol. 12, iss. 3, art. no. 51. (2022: 4.7 - IF, 1.697 - SJR, Q1 - SJR). ISSN 2073-4468. Dostupné na: https://doi.org/10.3390/antib12030051

ADMA08 OHRADANOVA-REPIC, Anna** - PRAŽENICOVÁ, Romana - GEBETSBERGER, Laura - MOSKTALETS, Tetiana - SKRABANA, R. - CEHLÁR, Ondrej - TAJTI, Gabor - STOCKINGER, Hannes - LEKSA, Vladimír**. Time to Kill and Time to Heal: The Multifaceted Role of Lactoferrin and Lactoferricin in Host Defense. In Pharmaceutics, 2023, vol. 15, iss. 4, art. no. 1056. (2022: 5.4 - IF, Q1 - JCR, 0.795 - SJR, Q1 - SJR). ISSN 1999-4923. Dostupné na: https://doi.org/10.3390/pharmaceutics15041056

ADMA09 POLJOVKA, Andrej - MUSIL, Miloš - BEDNÁŘ, David - CHOVANOVÁ, Katarína - BAUEROVÁ, Vladena - BELLOVÁ, Jana - KOHÚTOVÁ, Lenka - BARÁTH, Peter - ZÁMOCKÝ, Marcel**. Comparison of Fungal Thermophilic and Mesophilic Catalase–Peroxidases for Their Antioxidative Properties. In Antioxidants, 2023, vol. 12, iss. 7, art. no. 1382. (2022: 7 - IF, Q1 - JCR, 1.084 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox12071382 (VEGA č. 2/0012/22)

ADMA10 RUSKOVÁ, Magdaléna - OPÁLKOVÁ ŠIŠKOVÁ, Alena - MOSNÁČKOVÁ, Katarína - GAGO, Custódia - GUERREIRO, Adriana - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico** - ANTUNES, Maria Dulce. Biodegradable active packaging enriched with essential oils for enhancing the shelf life of strawberries. In Antioxidants, 2023, vol. 12, art. no. 755, [16] p. (2022: 7 - IF, Q1 - JCR, 1.084 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox12030755

ADMA11 SARDZIKOVÁ, S. - ANDRIJKOVA, Kristina - ŠVEC, P. - BEKE, Gábor - KĽUČÁR, Ľuboš - MINÁRIK, Gabriel - BIELIK, V. - KOLENOVÁ, Alexandra - ŠOLTYS, Katarína**. High Diversity but Monodominance of Multidrug-Resistant Bacteria in Immunocompromised Pediatric Patients with Acute Lymphoblastic Leukemia Developing GVHD Are Not Associated with Changes in Gut Mycobiome. In Antibiotics, 2023, vol. 12, iss. 12, art. no. 1667. (2022: 4.8 - IF, Q1 - JCR, 0.792 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na:

https://doi.org/10.3390/antibiotics12121667

ADMA12 VETRÁKOVÁ, Andrea - KALIANKOVÁ-CHOVANOVÁ, Romana - RECHTORÍKOVÁ, Radoslava - KRAJČÍKOVÁ, Daniela - BARÁK, Imrich**. Bacillus subtilis spores displaying RBD domain of SARS-CoV-2 spike protein. In Computational and Structural Biotechnology Journal, 2023, vol. 20, pp. 1550-1556. (2022: 6 - IF, Q1 - JCR, 1.579 - SJR, Q1 - SJR). ISSN 2001-0370. Dostupné na: https://doi.org/10.1016/j.csbj.2023.02.007

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMB01 MAJTÁNOVÁ, Nora - KURILOVÁ, V. - KRISKOVA, P. - KERI, P. - FELLNER, Z. - CHOLEVÍK, D. - MAJTÁN, Juraj - KOLAR, P. Acute Keratouveitis with Corneal Graft Melting as a Late Complication of Mild Chemical Burn Potentially Associated with Covid-19 Infection: A Case Report. In Česká a slovenská oftalmologie : Časopis českej a slovenskej oftalmologickej spoločnosti, 2023, vol. 79, iss. 4, pp. 192-200. (2022: 0.172 - SJR, Q4 - SJR). ISSN 1211-9059. Dostupné na: https://doi.org/10.31348/2023/25

ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNA01 MAJTÁNOVÁ, Nora** - KERI, P. - KRISKOVA, P. - KURILOVÁ, V. - CHOLEVIK, Dalibor - MAJTÁN, Juraj - KOLAR, P. Surgical outcomes of trabeculectomy augmented with sub-Tenon injected mitomycin C. In Bratislava Medical Journal, 2023, roč. 124, č. 12, ss. 907-914. (2022: 1.5 - IF, Q4 - JCR, 0.344 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2023_144

AEMA Abstrakty vedeckých prác v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

AEMA01 LEKSA, Vladimír. Milky way of immunity - galactic functions of lactoferrin in host defence. In European Journal of Immunology. - Weinheim : Wiley-VCH Verlag, 2023, vol. 53, suppl. 1, p. 48. (2022: 5.4 - IF, Q2 - JCR, 1.766 - SJR, Q1 - SJR). ISSN 0014-2980. (MESIA 2022 : Meeting of Middle Europe Societies of Immunology and Allergology)

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 HIRKOVÁ, Nikola - BOCÁNOVÁ, Lucia** - BUKOVSKÁ, Gabriela. Potential lytic activity of endolysin en534-c against pathogenic bacterial strains = Potenciál lytickej aktivity endolyzínu en534-c voči patogénnym bakteriálnym kmeňom. In Študentská vedecká konferencia 2023 : Zborník recenzovaných príspevkov. Editori: Kristián Fodor, Radoslav Omelka, Vladimíra Mondočkvá, Veronika Kováočvá, Mária Pappová. 666 s. - Fakulta prírodných vied a informatiky, Univerzita Konštantína Filozofa v Nitre : Fakulta prírodných vied, Univerzita Mateja Bela v Banskej Bystrici : Fakulta prírodných vied, Univerzita sv. Cyrila a Metoda v Trnave, 2023, s. 65-71. ISBN 978-80-558-2024-8. Dostupné na internete: https://www.fpv.umb.sk/veda-a-vyskum/studentska-vedecka-konferencia/zborniky-prispevkov-zo-svk.html (Študentská vedecká konferencia. Študentská vedecká konferencia)

AFD02 JAHODOVÁ, Iveta - BALIOVÁ, Martina - JURSKÝ, František. Vplyv fosforylácie na interakciu GlyT2 so syntenin-1 prostredníctvom domén PDZ. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 186-191. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD03 KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - BUČKOVÁ, Mária - PANGALLO, Domenico. Metagenomická analýza environmentálych vzoriek vzduchu odobraných z výrobne bryndze. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 243-248. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD04 KUBALA, Bohuš - FERIANC, Peter - POLJOVKA, Andrej - ZÁMOCKÝ, Marcel. Ektomykorízne huby ako rezervoár peroxidázových génov. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 189-193. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD05 KUBALA, Bohuš - FERIANC, Peter - ZÁMOCKÝ, Marcel. Bioinformatic analysis of ectomycorrhizal fungi and their. In Študentská vedecká konferencia FMFI UK : Bratislava 2023: Zborník príspevkov. Editori: Jaroslav Gurican, Juraj Tekel. 337 s. - Bratislava : Fakulta matematiky, fyziky a informatiky, Univerzita Komenského, 2023, s. 33-38. ISBN 978-80-8147-136-0. (Študentská vedecká konferencia FMFI UF. Študentská vedecká konferencia FMFI UF)

AFD06 MAISTO, Francesca - KLIŠTINCOVÁ, Nikola - MENDEZ VILLAR, Anxo - FARKAS, Zuzana - PAVLOVIĆ, Jelena - SANMARTIN, Patricia - KRAKOVÁ, Lucia - RUSKOVÁ, Magdaléna - PANGALLO, Domenico. MinION operon sequencing of Pazo de Raxoi (Santiago de Compostela, Spain) mural samples. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 331-336. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD07 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - KAJSIKOVÁ, Mária - BUKOVSKÁ, Gabriela. Štruktúrna a funkčná charakteristika SLT domény bakteriofága BFK20. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 445-450. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD08 POLÁČEK, Adam - JANEČEK, Štefan. Alfa-Amylázová rodina GH119 – in silico analýza zameraná na identifikáciu sekvenčno-štruktúrnych čŕt, evolúciu a príbuznosť s rodinou GH57. In Študentská vedecká konferencia 2023 : zborník recenzovaných príspevkov. Editorky: Mária Chovancová, Táňa Sebechlebská, Eva Viglašová. 1.

vyd. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta, 2023, s. 485-490. ISBN 978-80-223-5608-4. Dostupné na internete: https://fns.uniba.sk/studium/svk/zborniky-svk/ (Študentská vedecká konferencia 2023. Študentská vedecká konferencia 2023)

AFD09 POLÁČEK, Adam. In silico analýza alfa-amylázovej rodiny GH-119 - sekvenčno-štruktúrne črty, evolúcia a príbuznosť s rodinou GH57 = In silico analysis of the alpha-amylase family GH119 - sequence-struktural features, evolution and its relatedness to the family GH57. Recenzenti: Roman Kuna, Elena Kupcová. In Študentská vedecká konferencia 2023 : Zborník recenzovaných príspevkov. Editori: Kristián Fodor, Radoslav Omelka, Vladimíra Mondočkvá, Veronika Kováočvá, Mária Pappová. 666 s. - Fakulta prírodných vied a informatiky, Univerzita Konštantína Filozofa v Nitre : Fakulta prírodných vied, Univerzita Mateja Bela v Banskej Bystrici : Fakulta prírodných vied, Univerzita sv. Cyrila a Metoda v Trnave, 2023, s. 520-526. ISBN 978-80-558-2024-8. Dostupné na internete: https://www.fpv.umb.sk/veda-a-vyskum/studentska-vedecka-konferencia/zborniky-prispevkov-zo-svk.html (Študentská vedecká konferencia. Študentská vedecká konferencia)

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 LEKSA, Vladimír. Lactoferrin - the alarmin which knows when is a time to kill : I-01. In 13th C1-inhibitor Deficiency & Angioedema Workshop - 2023, 2023, p. 2. (2022: 2.7 - IF, Q3 - JCR, 0.634 - SJR, Q2 - SJR). Dostupné na: https://doi.org/10.1186/s13223-023-00845-9 (13th C1-inhibitor deficiency and angioedema workshop)

AFF Abstrakty pozvaných príspevkov z domácich konferencií

AFF01 BAUEROVÁ, Vladena - KUTEJOVÁ, Eva - BAUER, Jacob. Differences in stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2 induced by central helix mutations. In Applied Natural Sciences 2023 : The 8th International Scientific Conference, 18 - 20 September 2023, Donovaly. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2023, p. 32. ISBN 978-80-572-0357-5. Dostupné na internete: https://ans2023.ucm.sk/ (Applied Natural Sciences. Applied Natural Sciences)

AFF02 BAUEROVÁ, Vladena - HROMÁDKOVÁ, Terézia - KUTEJOVÁ, Eva - BAUER, Jacob. The effect of the central-helix mutations on the stability and dynamic motion of the N-terminal domain of the human ryanodine receptor 2. In Structure and stability of biomacromolecules : Book of contributions. Editors: Zuzana Bednarikova, Viktoria Fedorova, Diana Fedunova, Katarina Siposova. - Košice, Slovakia : Institute of Experimental Physics, Slovak Academy of Sciences, 2023, pL 13. ISBN 978-80-89656-26-4. Dostupné na internete: https://ssb2023.saske.sk/#book%20of%20contributions (SSB 2023 : International Conference Structure and Stability of Biomacromolecules. SSB 2023 : International Conference Structure and Stability of Biomacromolecules)

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 CHOLUJOVÁ, Dana - BEKE, Gábor - HIDESHIMA, Teru - KĽUČÁR, Ľuboš - LEIBA, Merav - JAMROZIAK, Krzysztof - RICHARDSON, Paul G. - KASTRITIS, Efstathios - DORFMAN, David - ANDERSON, Kenneth C. - JAKUBÍKOVÁ, Jana. Dysregulations of the immune tumor microenvironment in multiple myeloma :

P-382. In Clinical Lymphoma, Myeloma & Leukemia, 2023, vol. 23, suppl. 2, s. 251. ISSN 1557-9190. Dostupné na internete: https://www.clinical-lymphoma-myeloma-leukemia.com/article/S2152-2650(23)02000-1/pdf (International Myeloma Society 20th Annual Meeting and Exposition. 2019/14-BMCSAV-9 : Vývoj nového diagnostického a prediktívneho vysokodimenzionálneho imunofenotypizačného nástroja pre hematologické malignity. APVV-16-0484 : Nádorová heterogenita v mnohopočetnom myelóme: evolúcia a klinická významnosť. APVV-20-0183 : Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance. APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov)

AFG02 URBÁNIKOVÁ, Ľubica - JANEČEK, Štefan. Bioinformatic analysis of trehalose synthases containing a maltokinase domain : L54. In Materials Structure in Chemistry, Biology, Physics and Technology, 2023, vol. 29, no. 2, pp. 156-157. ISSN 1211-5894. Dostupné na internete: http://www.xray.cz/ms/ (Materials Structure in Chemistry, Biology, Physics and Technology)

AFH Abstrakty príspevkov z domácich konferencií

AFH01 FECKOVÁ, Ľubomíra - JAVOROVÁ, Ráchel - REŽUCHOVÁ, Bronislava - CSÖLLEIOVÁ, Dominika - NOVÁKOVÁ, Renáta - OPATERNÝ, Filip - KORMANEC, Ján. Overproduction of the auricin-specific activator Aur1P induced type I polyketide synthase product strevertene A. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 149. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH02 FLORES - RAMÍREZ, Gabriela - PALKOVIČOVÁ, Katarína - MERTENS, Katja - BEKE, Gábor - DANCHENKO, Maksym - MITULOVIC, G. - ŠKULTÉTY, Ľudovít. Proteogenomics analysis of human macrophages infected with Coxiella burnetii revel strain dependent differences on how the bacterium may enter its host : OL10. In 3rd workshop on biomarkers of infectious, oncological, and neurodegenerative diseases. - Bratislava : Institute of Virology, Biomedical Research Centre Slovak Academy of Sciences, 2023, s. 19. ISBN 978-80-972111-6-5. (3rd workshop on biomarkers of infectious, oncological, and neurodegenerative diseases. 3rd workshop on biomarkers of infectious, oncological, and neurodegenerative diseases)

AFH03 JAHODOVÁ, Iveta - BALIOVÁ, Martina - JURSKÝ, František. In silico investigation of the potential mechanism of the PDZ interaction between GAT1 and Syntenin-1. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, pp. 171-172. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH04 JAVOROVÁ, Ráchel - OPATERNÝ, Filip - FECKOVÁ, Ľubomíra -

REŽUCHOVÁ, Bronislava - CSÖLLEIOVÁ, Dominika - NOVÁKOVÁ, Renáta - KORMANEC, Ján. Activation of a silent biosynthetic gene cluster for a type I polyketide synthase secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 155. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH05 KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - BUČKOVÁ, Mária - PANGALLO, Domenico - KOREŇOVÁ, J. - KUCHTA, T. Metagenomická analýza mikrobiómu srvátky využitím Oxford Nanopore sekvenovania. In PREVEDA : Interaktívna konferencia mladých vedcov 2023. - Banská Bystrica : Občianske združenie Preveda, 2023, sekcia: biológia. ISBN 978-80-974608-0-8. Dostupné na internete: https://www.preveda.sk/abstrakt/metagenomicka-analyza-mikrobiomu-srvatky-vyuzitim-oxford-nanopore-sekvenovania-0 (Interaktívna Konferencia Mladých Vedcov : PREVEDA. Interaktívna Konferencia Mladých Vedcov : PREVEDA)

AFH06 KORMANEC, Ján - OPATERNÝ, Filip - FECKOVÁ, Ľubomíra - JAVOROVÁ, Ráchel - REŽUCHOVÁ, Bronislava - CSÖLLEIOVÁ, Dominika - NOVÁKOVÁ, Renáta. Differential in vivo recognition of promoters recognized by nine SigB homologues present in Streptomyces coelicolor A3(2). In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 180. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH07 KUBALA, Bohuš - POLJOVKA, Andrej - FERIANC, Peter - ZÁMOCKÝ, Marcel. Identifikácia peroxidázových génov z ektomykoríznych húb. In PREVEDA : Interaktívna konferencia mladých vedcov 2023. - Banská Bystrica : Občianske združenie Preveda, 2023, sekcia: biológia. ISBN 978-80-974608-0-8. Dostupné na internete: https://www.preveda.sk/abstrakt/identifikacia-peroxidazovych-genov-z-ektomykoriznych-hub (Interaktívna Konferencia Mladých Vedcov : PREVEDA. Interaktívna Konferencia Mladých Vedcov : PREVEDA)

AFH08 LEKSA, Vladimír. Universal functions of the milk protein lactoferrin . why not in the brain? In Advances in experimental neuroimmunology 2023. - Dunajská Lužná : AH05 : Neuroimunologický ústav SAV, 2023, s. 20. ISBN 978-80-69025-00-4. Dostupné na internete: https://niu.sav.sk/advances-in-experimental-neuroimmunology-2023/ (Advances in experimental neuroimmunology 2023)

AFH09 MAISTO, Francesca - KLIŠTINCOVÁ, Nikola - PAVLOVIĆ, Jelena - PANGALLO, Domenico - MENDEZ VILLAR, Anxo - SANMARTIN, Patricia. MinION-based sequencing of differently illuminated wall areas of Pazo de Raxoi (Santiago de Compostela, Spain). In PREVEDA : Interaktívna konferencia mladých vedcov 2023. - Banská Bystrica : Občianske združenie Preveda, 2023, sekcia: biológia. ISBN 978-80-974608-0-8. Dostupné na internete:

https://www.preveda.sk/abstrakt/minion-based-sequencing-differently-illuminated-wall-areas-pazo-de-raxoi-santiago-de (Interaktívna Konferencia Mladých Vedcov : PREVEDA. Interaktívna Konferencia Mladých Vedcov : PREVEDA)

AFH10 MAREČEK, Filip - JANEČEK, Štefan. Two novel closely related subfamilies of the alpha-amylase family GH13. In Applied Natural Sciences 2023 : The 8th International Scientific Conference, 18 - 20 September 2023, Donovaly. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2023, p. 39. ISBN 978-80-572-0357-5. Dostupné na internete: https://ans2023.ucm.sk/ (Applied Natural Sciences. Applied Natural Sciences)

AFH11 NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - PÄTOPRSTÝ, Vladimír - OPATERNÝ, Filip - JAVOROVÁ, Ráchel - JAKUBÍKOVÁ, Jana - SEDLÁK, Ján - REŽUCHOVÁ, Bronislava - CSÖLLEIOVÁ, Dominika - KORMANEC, Ján. Characterization of the late step of auricin biosynthesis in Streptomyces lavendulae subsp. lavendulae CCM 3239. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 190. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH12 OPATERNÝ, Filip - FECKOVÁ, Ľubomíra - JAVOROVÁ, Ráchel - REŽUCHOVÁ, Bronislava - CSÖLLEIOVÁ, Dominika - NOVÁKOVÁ, Renáta - KORMANEC, Ján. Activation of a silent biosynthetic gene cluster for an unknown NRPS secondary metabolite in Streptomyces lavendulae subsp. lavendulae CCM 3239. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 195. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH13 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - KAJSIKOVÁ, Mária - BUKOVSKÁ, Gabriela. Charakteristika štruktúrnych vlastností SLT domény bakteriofága BFK20. In PREVEDA : Interaktívna konferencia mladých vedcov 2023. - Banská Bystrica : Občianske združenie Preveda, 2023, sekcia: biológia. ISBN 978-80-974608-0-8. Dostupné na internete: https://www.preveda.sk/prispevok/charakteristika-strukturnych-vlastnosti-slt-domeny-bakteriofaga-bfk20 (Interaktívna Konferencia Mladých Vedcov : PREVEDA. Interaktívna Konferencia Mladých Vedcov : PREVEDA)

AFH14 POLÁČEK, Adam - JANEČEK, Štefan. In silico analysis of the alpha-amylase family GH57 to identify new groups of putative proteins with incomplete catalytic machinery. In Applied Natural Sciences 2023 : The 8th International Scientific Conference, 18 - 20 September 2023, Donovaly. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2023, p. 85. ISBN 978-80-572-0357-5. Dostupné na internete: https://ans2023.ucm.sk/ (Applied Natural Sciences. Applied Natural Sciences)

AFH15 REŽUCHOVÁ, Bronislava - JAVOROVÁ, Ráchel - CSÖLLEIOVÁ, Dominika - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - OPATERNÝ, Filip - KORMANEC, Ján. A new synthetic biology system for investigating the

biosynthesis of aromatic polyketide antibiotics. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 205. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH16 SCHORSCHOVÁ, Michaela - JANEČEK, Štefan. A detailed in silico analysis of the alpha-amylase family GH126 focused on its unique sequence-structural features. In Applied Natural Sciences 2023 : The 8th International Scientific Conference, 18 - 20 September 2023, Donovaly. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2023, p. 86. ISBN 978-80-572-0357-5. Dostupné na internete: https://ans2023.ucm.sk/ (Applied Natural Sciences. Applied Natural Sciences)

AFH17 ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - KORMANEC, Ján. The pleiotropic anti-anti-sigma factor BldG is specifically dephosphorylated by the phosphatase SCO3691 to activate SigH and SigF pathway in Streptomyces coelicolor A3(2). In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 208. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFH18 ŠIMONOVIČOVÁ, Alexandra - NOSALJ, Sanja - MAISTO, Francesca - KLIŠTINCOVÁ, Nikola - FONTANOT, Alessio - PANGALLO, Domenico - GÁBEL, Bruno. Microscopic filamentous fungi in soils influenced by military acitivities. In Catathelasma, 2023, roč. 22, s. 27-28. ISSN 1335-7670. Dostupné na internete: http://mykospol.sk/wp-content/uploads/2023/11/Catathelasma-web.pdf (Czech-Slovak Mycological Conference)

AFH19 URBÁNIKOVÁ, Ľubica - JANEČEK, Štefan. Trehalose synthases fused with a maltokinase - an in silico analysis. In Applied Natural Sciences 2023 : The 8th International Scientific Conference, 18 - 20 September 2023, Donovaly. - Trnava : University of Ss. Cyril and Methodius in Trnava, 2023, p. 42. ISBN 978-80-572-0357-5. Dostupné na internete: https://ans2023.ucm.sk/ (Applied Natural Sciences. Applied Natural Sciences)

AFH20 URBÁNIKOVÁ, Ľubica - JANEČEK, Štefan. Family GH13 trehalose synthases with a C-terminal maltokinase - an in silico study. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 101. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFL Postery z domácich konferencií

AFL01 FLORES - RAMÍREZ, Gabriela - PALKOVIČOVÁ, Katarína - MARTENS, K. - BEKE, Gábor - DANCHENKO, Maksym - MITULOVIC, G. - ŠKULTÉTY, Ľudovít. Infection of THP-1 derived macrophages by Coxiella burnetii bacterium. In XXVIIth Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies : Programme & Abstract Book, September 10th - 13th, 2023, High Tatras, Slovakia. 1. vyd. - Bratislava : Slovak Centre of Scientific and Technical Information, 2023, p. 154. ISBN 978-80-8240-047-5. (Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology with cooperation of Hungarian and Ukrainian Biochemical Societies. 50 years of Recombinant DNA- Past, Present, Future : FEBS + meeting)

AFL02 ŠŤASTNÝ, Dominik - PETRISKOVÁ, Lívia - TAHOTNÁ, Dana - BAUER, Jacob - POKORNÁ, Lucia - HOLIČ, Roman - VALACHOVIČ, Martin - PEVALA, Vladimír - COCKCROFT, Shamshad - GRIAČ, Peter. Sec14p homologues Pdr16p and Pdr17p bind and transfer lanosterol as their second ligand. In 47th Annual Conference on Yeasts : 47th ACY, May 16 - 19, 2023. 1.vyd. - Bratislava, 2023, p. 83. ISSN 1336-4839. (APVV-19-0094 : Obranné mechanizmy mikrobiálnych a živočíšnych buniek pri znižovaní ich citlivosti na rastlinné defenzné zlúčeniny. APVV-20-0166 : Nekonvenčné kvasinky ako producenty lipidov s vysokou pridanou hodnotou. Vega č. 2/0047/23 : Proteíny prenášajúce lipidy - štúdium molekulárnych mechanizmov a ich možné využitie ako cieľov intervencie pri liečbe niektorých ochorení. 47th Annual Conference on Yeasts. 47th Annual Conference on Yeasts)

AFL03 VALUŠKOVÁ, Zuzana - CSICSÁTKOVÁ, Nikoleta - SUROVIAKOVÁ, Katarína - BEKE, Gábor - MIČÁKOVÁ, A. - ŽELEZNÍKOVÁ, Tatiana - KĽUČÁR, Ľuboš - SEDLÁK, Ján - ANDERSON, Kenneth C. - DRGOŇA, Ľuboš - CHOLUJOVÁ, Dana - JAKUBÍKOVÁ, Jana. Dysregulované mechanizmy adaptívneho imunitného mikroprostredia v patogenéze mnohopočetného myelómu : P 9. In Onkológia, 2023, roč. 18, supl. 1, s. 69-70. ISSN 1336-8176. (Bratislavské onkologické dni : LX. ročník. 2019/14-BMCSAV-9 : Vývoj nového diagnostického a prediktívneho vysokodimenzionálneho imunofenotypizačného nástroja pre hematologické malignity. APVV-16-0484 : Nádorová heterogenita v mnohopočetnom myelóme: evolúcia a klinická významnosť. APVV-20-0183 : Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance. APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov)

BDCA Odborné práce v zahraničných karentovaných časopisoch impaktovaných

BDCA01 DEGLOVIC, Juraj - MAJTÁNOVÁ, Nora - BUČEKOVÁ, Marcela - MAJTÁN, Juraj**. The quality and biological functionality of honey used for clinical purposes is important. In Acta Paediatrica, 2023, vol. 112, iss. 2, pp. 321-322. (2022: 3.8 - IF, Q1 - JCR, 0.98 - SJR, Q1 - SJR). ISSN 0803-5253. Dostupné na: https://doi.org/10.1111/apa.16605

BDCA02 JANEČEK, Štefan**. Advances in Amylases—What's Going on? In Molecules, 2023, vol. 28, iss. 21, art. no. 7268. (2022: 4.6 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2023 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules28217268

BDDA Odborné práce v domácich karentovaných časopisoch impaktovaných

BDDA01 JANEČEK, Štefan** - BRUMER, Harry - HENRISSAT, B. News, trends, and challenges in Carbohydrate-Active enZymes. In Biologia, 2023, vol. 78, iss. 7, pp.

1739-1740. (2022: 1.5 - IF, Q4 - JCR, 0.34 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-023-01449-9

FAI Zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky, atlasy ...)

FAI01 Biologia. Editors [2007-] Štefan Janeček, [2009, 2013-] Mária Kazimírová, [2018-] Katarína Hegedüšová Vantarová, [managing editor Section Botany: 2017-] František Hindák, [2000-2017] Igor Mistrík, [2000-2017]. Cham : Springer International Publishing, 2018-. Copyrith a vlastník: Centrum biologie a rastlin a biodiverzity SAV, Ústav zoológie SAV, Ústav molekulárnej biológie SAV. 12 x ročne. ISSN 0006-3088

GII Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií

GII01 ANNUŠOVÁ, Adriana - HEGEDŰŠOVÁ, Veronika - ŠELC, Michal - IVASHCHENKO, Olena - TRUCHAN, Daniel - LABUDOVÁ, Martina - KÁLOSI, Anna - STEPURA, Anastasiia - KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - KOZICS, Katarína - CSÁDEROVÁ, Lucia - BÁBELOVÁ, Andrea - ŠVASTOVÁ, Eliška - ŠIFFALOVIČ, Peter - OMASTOVÁ, Mária - LALATONNE, Yoann - JERGEL, Matej - MAJKOVÁ, Eva. Confocal Raman microscopy as a versatile tool for in vitro label-free interaction studies between nanomaterials and live cells. In Nanotech Poland 2023 : Book of abstracts. - Poland : Adam Mickiewicz University, Poznan, 2023, p. 140. (APVV-20-0485 : Využitie nanomedicíny v boji proti rakovine pankreasu prostredníctvom zacielenia nádorovo-asociovanej karbonickej anhydrázy IX. Nanotech Poland 2023 : Konferencia. Nanotech Poland 2023 : Konferencia)

GII02 BARÁK, Imrich - MUCHOVÁ, Katarína - KALOCSAIOVÁ, Evelína - POSPÍŠIL, J. - CHROMÍKOVÁ, Zuzana - ŽARNOVIČANOVÁ, Silvia - KRÁSNY, L. Spatio-temporal control of the asymmetric septum positioning during sporulation of Bacillus subtilis. In Abstract book of Bacell : meeting 2023. - Štuttgart : University of Hohenheim, 2023, p. 19. (Bacell meeting 2023. Bacell meeting 2023)

GII03 FARKAS, Zuzana - PAVLOVIĆ, Jelena - RUSKOVÁ, Magdaléna - LEPÁČEK, Marek - KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - ŠOLTÉSOVÁ PRNOVÁ, Marta - ŠTEFEK, Milan - PANGALLO, Domenico. Screening of Mutual Interactions of Intestinal Microbiota and Cemtirestat in Rat Models of Diabetes. In Abstract book of Power of Microbes in Industry and Environment. - Záhreb : Croatian Microbiological Society, 2023, p. 122. ISBN 978-953-7778-19-4. (Power of Microbes in Industry and Environment. Power of Microbes in Industry and Environment)

GII04 KOZICS, Katarína - KAPUSTOVÁ, Magdaléna - PANGALLO, Domenico - ANNUŠOVÁ, Adriana - GERACI, C. Antimicrobial activities of biocompatible nanocapsules loaded with essential oils and their cyto/genotoxicity in human keratinocyte cell line. In 51st European Environmental Mutagenesis and Genomics Society (EEMGS) & 27th Spanish Environmental Mutagenesis and Genomics Society (SEMA) meeting : Abstract Book. 1. ed. - Málaga : Environmental Mutagenesis and Genomics Society, 2023, s. 122. (51st European Environmental Mutagenesis and Genomics Society (EEMGS) & 27th Spanish Environmental Mutagenesis and Genomics Society (SEMA) meeting. VEGA 2/0055/20 : Novosyntetizované deriváty tymolu: vzťah medzi štruktúrou a biologickou aktivitou na in vitro modeli čreva. COST Action CA17140 : Nano2Clinic)

GII05 LEPÁČEK, Marek - BOĎO, Pavol - VILLANT, Patrik - PAVLOVIĆ, Jelena - BUČKOVÁ, Mária - PANGALLO, Domenico - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta. Interakcie medzi črevnou mikrobiotou a cemtirestatom u ZDF potkanov. In Farmakodny Plzeň : 71. Česko-slovenské farmakologické dny. - Plzeň : Lékařská fakulta v Plzni, 2023, s. 63. Dostupné na internete: https://farmakodny.eu/wp-content/uploads/2023/07/sbornik_web_final.pdf (Vega č. 2/0087/22 : Inhibítory aldo-keto reduktáz v personalizovanej liečbe viacerých typov rakoviny. APVV-20-0411 : Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modeli diabetu. Česko-slovenské farmakologické dny. Česko-slovenské farmakologické dny)

GII06 RUSKOVÁ, Magdaléna - PAVLOVIĆ, Jelena - FARKAS, Zuzana - KLIŠTINCOVÁ, Nikola - MAISTO, Francesca - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico. Analysis of Microbial Community and Specific Resistance Genes of the Microplastics, Water and Surroundings of Danube River : OP12 . In Abstract book of Power of Microbes in Industry and Environment. - Záhreb : Croatian Microbiological Society, 2023, p. 50. ISBN 978-953-7778-19-4. (Power of Microbes in Industry and Environment. Power of Microbes in Industry and Environment)

Ohlasy (citácie):

AAB Vedecké monografie vydané v domácich vydavateľstvách

AAB01 BOLVANSKÝ, Milan - BRINDZA, Ján - TÓTH, Dezider - BACIGÁLOVÁ, Kamila - FERIANC, Peter - KARELOVÁ, Edita - HARICHOVÁ, Janka - KAČÁNIOVÁ, M. - HORČIN, Vojtech - MENDEL, Ľubomír - UŽÍK, M. Gaštan jedlý (Castanea sativa Mill.) : biológia, pestovanie a využívanie [European chestnut (Castanea sativa Mill.) : biology, cultivation and use]. Editor Ján Brindza. Nitra : Slovenská poľnohospodárska univerzita v Nitre, 2008. 169 s. Agrobiodiverzita. ISBN 978-80-552-0076-7

Citácie:

1. [1.1] PáSTOR, M. - TUCEKOVá, A. - BELKO, M. - PAZITNY, J. Early growth of saplings of selected chestnut (Castanea spp.) taxa raised in vegetation cells, hydrogel enriched substrate, or soil. In SYLWAN. ISSN 0039-7660, 2022, vol. 166, no. 4, p. 225-232. Available at: https://doi.org/10.26202/sylwan.2022010, Registrované v: WOS

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 ADLER, E. - BARÁK, Imrich - STRAGIER, P. Bacillus subtilis locus encoding a killer protein and its antidote. In Journal of Bacteriology, 2001, vol. 183, p. 3574-3581. ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.183.12.3574-3581.2001

Citácie:

1. [1.1] FURUSAWA, Go - DIYANA, Tarmizi - LAU, Nyok-Sean. Metabolic strategies of dormancy of a marine bacterium Microbulbifer aggregans CCB-MM1: Its alternative electron transfer chain and sulfate-reducing pathway. In GENOMICS, 2022, vol. 114, no. 1, pp. 443-455. ISSN 0888-7543. Dostupné na: https://doi.org/10.1016/j.ygeno.2021.02.024, Registrované v: WOS

ADCA02 ALSTON, R.W. - URBÁNIKOVÁ, Ľubica - ŠEVČÍK, Jozef - LASAGNA, M. - REINHOLD, G. - SCHOLTZ, J.M. - PACE, C.N. Contribution of single tryptophan residues to the fluorescence and stability of ribonuclease Sa. In Biophysical Journal, 2004, vol. 87, p. 4036-4047. ISSN 0006-3495. Dostupné na: https://doi.org/10.1529/biophysj.104.050377

Citácie:

1. [1.1] DE MINGO, D.R. - PANTOJA-UCEDA, D. - HERVáS, R. - CARRIóN-VáZQUEZ, M. - LAURENTS, D.V. Conformational dynamics in the disordered region of human CPEB3 linked to memory consolidation. In BMC BIOLOGY. JUN 3 2022, vol. 20, no. 1. Dostupné na: https://doi.org/10.1186/s12915-022-01310-6, Registrované v: WOS

2. [1.1] HAMZA, A. - SAMAD, A. - PARRAY, Z.A. - ARA, S. - AHMED, A. - ALMAJHDI, F.N. - HUSSAIN, T. - ISLAM, A. - PARVEEN, S. Mutation in the CX3C Motif of G Protein Disrupts Its

Interaction with Heparan Sulfate: A Calorimetric, Spectroscopic, and Molecular Docking Study. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. FEB 2022, vol. 23, no. 4. Dostupné na: https://doi.org/10.3390/ijms23041950, Registrované v: WOS
3. [1.1] MUKAIYAMA, A. - FURUIKE, Y. - YAMASHITA, E. - AKIYAMA, S. Highly sensitive tryptophan fluorescence probe for detecting rhythmic conformational changes of KaiC in the cyanobacterial circadian clock system. In BIOCHEMICAL JOURNAL. ISSN 0264-6021, JUL 2022, vol. 479, no. 14, p. 1505-1515. Dostupné na: https://doi.org/10.1042/BCJ20210544, Registrované v: WOS
4. [1.1] RAMESH, L. - LATHA, L.B.V. - MUKUNDA, C.K. Identification and characterization of metal-chelating bioenhancer peptide derived from fermented Citrullus lanatus seed milk. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, JUL 2022, vol. 46, no. 7. Dostupné na: https://doi.org/10.1111/jfbc.14102, Registrované v: WOS
5. [1.1] SOUSA, V. - LOUREIRO, L. - CARVALHO, G. - PEREIRA, R.N. Extraction of biomolecules from Coelastrella sp. LRF1 biomass using Ohmic Heating technology. In INNOVATIVE FOOD SCIENCE & EMERGING TECHNOLOGIES. ISSN 1466-8564, AUG 2022, vol. 80. Dostupné na: https://doi.org/10.1016/j.ifset.2022.103059, Registrované v: WOS
6. [1.2] RAMÍREZ DE MINGO, D. - PANTOJA-UCEDA, D. - HERVÁS, R. - CARRIÓN-VÁZQUEZ, M. - LAURENTS, D. V. Conformational dynamics in the disordered region of human CPEB3 linked to memory consolidation. In BMC Biology, 2022-12-01, 20, 1, pp. Dostupné na: https://doi.org/10.1186/s12915-022-01310-6, Registrované v: SCOPUS

ADCA03 AMBRO, Ľuboš - PEVALA, Vladimír - BAUER, Jacob - KUTEJOVÁ, Eva. The influence of ATP-dependent proteases on a variety of nucleoid-associated processes. In Journal of Structural Biology, 2012, vol. 179, p. 181–192. (2011: 3.406 - IF, Q2 - JCR, 2.119 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2012.05.018

Citácie:
1. [1.1] MOHAMMED, Inayathulla - SCHMITZ, Kai A. - SCHENCK, Niko - BALASOPOULOS, Dimitrios - TOPITSCH, Annika - MAIER, Timm - ABRAHAMS, Jan Pieter. Catalytic cycling of human mitochondrial Lon protease. In STRUCTURE, 2022, vol. 30, no. 9, pp. 1254-+. ISSN 0969-2126. Dostupné na: https://doi.org/10.1016/j.str.2022.06.006, Registrované v: WOS

ADCA04 ARA, K.Z.G.** - MåNBERGER, A. - GABRIŠKO, Marek - LINARES-PASTÉN, J.A. - JASILIONIS, A. - FRIðJÓNSSON, O.H. - HREGGVIðSSON, G.O. - JANEČEK, Štefan - KARLSSON, E.N.**. Characterization and diversity of the complete set of GH family 3 enzymes from Rhodothermus marinus DSM 4253. In Scientific Reports, 2020, vol. 10, no. 1329. (2019: 3.998 - IF, Q1 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-020-58015-5

Citácie:
1. [1.1] LUANG, S. - FERNANDEZ-LUENGO, X. - NIN-HILL, A. - STRELTSOV, V.A. - SCHWERDT, J.G. - ALONSO-GIL, S. - CAIRNS, J.R.K. - PRADEAU, S. - FORT, S. - MARECHAL, J.D. - MASGRAU, L. - ROVIRA, C. - HRMOVA, M. The evolutionary advantage of an aromatic clamp in plant family 3 glycoside exo-hydrolases. In NATURE COMMUNICATIONS. SEP 23 2022, vol. 13, no. 1., Registrované v: WOS
2. [1.1] PANG, A.P. - LUO, Y.S. - HU, X. - ZHANG, F.N. - WANG, H.Y. - GAO, Y.C. - DURRANI, S. - LI, C.C. - SHI, X.T. - WU, F.G. - LI, B.Z. - LU, Z.H. - LIN, F.M. Transmembrane transport process and endoplasmic reticulum function facilitate the role of gene cel1b in cellulase production of Trichoderma reesei. In MICROBIAL CELL FACTORIES. MAY 19 2022, vol. 21, no. 1., Registrované v: WOS

ADCA05 ARIGONI, F. - GUEROUT-FLEURY, A.M. - BARÁK, Imrich - STRAGIER, P. The SpoIIE phosphatase, the sporulation septum, and the establishment of forespore-specific transcription in Bacillus subtilis: a reassessment. In Molecular Microbiology, 1999, vol. 31, p. 1407-1416. ISSN 0950-382X. Dostupné na: https://doi.org/10.1046/j.1365-2958.1999.01282.x

Citácie:
1. [1.1] SCHNEIDER, Theresa - TAN, Yongjun - LI, Huan - FISHER, Jonathan S. - ZHANG, Dapeng. Photoglobin, a distinct family of non-heme binding globins, defines a potential photosensor in prokaryotic signal transduction systems. In COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL, 2022, vol. 20, no., pp. 261-273. ISSN 2001-0370. Dostupné na: https://doi.org/10.1016/j.csbj.2021.12.022, Registrované v: WOS

ADCA06 BALIOVÁ, Martina - JURSKÝ, František. Calpain sensitive regions in the N-terminal cytoplasmic domains of glycine transporters GlyT1A and GlyT1B. In Neurochemical Research, 2005, vol. 30, p. 1093-1100. (2005 - Current Contents). ISSN 0364-3190. Dostupné na: https://doi.org/10.1007/s11064-005-7520-1

Citácie:
1. [1.1] DE LUCA, Ciro - VIRTUOSO, Assunta - KORAI, Sohaib Ali - CIRILLO, Raffaella -

GARGANO, Francesca - PAPA, Michele - CIRILLO, Giovanni. Altered Spinal Homeostasis and Maladaptive Plasticity in GFAP Null Mice Following Peripheral Nerve Injury. In CELLS, 2022, vol. 11, no. 7, pp. Dostupné na: https://doi.org/10.3390/cells11071224, Registrované v: WOS

ADCA07 BANERJEE, S. - ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Probing the two-domain structure of homodimeric prokaryotic and eukaryotic catalase–peroxidases. In Biochimica et Biophysica Acta : proteins and proteomics, 2010, vol. 1804, p. 2136-2145. (2009: 2.480 - IF, Q3 - JCR, 1.365 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1570-9639. Dostupné na: https://doi.org/10.1016/j.bbapap.2010.07.013

Citácie:

1. [1.1] BAROZI, Victor - MUSYOKA, Thommas Mutemi - AMAMUDDY, Olivier Sheik - BISHOP, Ozlem Tastan. Deciphering Isoniazid Drug Resistance Mechanisms on Dimeric Mycobacterium tuberculosis KatG via Post-molecular Dynamics Analyses Including Combined Dynamic Residue Network Metrics. In ACS OMEGA, 2022, vol. 7, no. 15, pp. 13313-13332. ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.2c01036, Registrované v: WOS

ADCA08 BARÁK, Imrich - MUCHOVÁ, Katarína. The role of lipid domains in bacterial cell processes. In International Journal of Molecular Sciences, 2013, vol. 14, p. 4050-4065. (2012: 2.464 - IF, Q2 - JCR, 0.770 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms14024050

Citácie:

1. [1.1] BAI, J.R. - WU, Y.P. - BU, Q. - ZHONG, K. - GAO, H. Comparative study on antibacterial mechanism of shikimic acid and quinic acid against Staphylococcus aureus through transcriptomic and metabolomic approaches. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JAN 2022, vol. 153. Dostupné na: https://doi.org/10.1016/j.lwt.2021.112441, Registrované v: WOS

2. [1.1] DIXON, B. - AHMED, W.M. - FELTON, T. - FOWLER, S.J. Molecular phenotyping approaches for the detection and monitoring of carbapenem-resistant Enterobacteriaceae by mass spectrometry. In JOURNAL OF MASS SPECTROMETRY AND ADVANCES IN THE CLINICAL LAB. ISSN 2667-145X, NOV 2022, vol. 26, p. 9-19. Dostupné na: https://doi.org/10.1016/j.jmsacl.2022.09.001, Registrované v: WOS

3. [1.1] GRZYB, T. - SKLODOWSKA, A. Introduction to Bacterial Anhydrobiosis: A General Perspective and the Mechanisms of Desiccation-Associated Damage. In MICROORGANISMS. FEB 2022, vol. 10, no. 2. Dostupné na: https://doi.org/10.3390/microorganisms10020432, Registrované v: WOS

4. [1.1] HAJIROSTAMLOO, B. - MOLAVEISI, M. Active Alyssum homolocarpum seed gum films containing microencapsulated Echinacea purpurea (L.) extract; study of physicochemical properties and its application in quail meat packaging. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, JUN 2022, vol. 16, no. 3, p. 1997-2010. Dostupné na: https://doi.org/10.1007/s11694-022-01317-1, Registrované v: WOS

5. [1.1] ISLAM, F. - SAEED, F. - AFZAAL, M. - AHMAD, A. - HUSSAIN, M. - KHALID, M.A. - SAEWAN, S.A. - KHASHROUM, A.O. Applications of green technologies-based approaches for food safety enhancement: A comprehensive review. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, SEP 2022, vol. 10, no. 9, p. 2855-2867. Dostupné na: https://doi.org/10.1002/fsn3.2915, Registrované v: WOS

6. [1.1] KLEINWäCHTER, I. - MOHR, B. - JOPPE, A. - HELLMANN, N. - BEREAU, T. - OSIEWACZ, H.D. - SCHNEIDER, D. CLiB - a novel cardiolipin-binder isolated via data-driven and in vitro screening. In RSC CHEMICAL BIOLOGY. ISSN 2633-0679, JUL 6 2022, vol. 3, no. 7, p. 941-954. Dostupné na: https://doi.org/10.1039/d2cb00125j, Registrované v: WOS

7. [1.1] MURAD, N.F.A. - MAHYUDDIN, A. - SHAFIE, Z. - SOCKALINGAM, S.N.M.P. - ZAKARIA, A.S.I. The effects of methanolic extract of Uncaria gambir against microflora of dental caries. In INDIAN JOURNAL OF NATURAL PRODUCTS AND RESOURCES. ISSN 0976-0504, DEC 2022, vol. 13, no. 4, p. 497-504. Dostupné na: https://doi.org/10.56042/ijnpr.v13i4.62698, Registrované v: WOS

8. [1.1] SZALWINSKI, L.J. - GONZALEZ, L.E. - MORATO, N.M. - MARSH, B.M. - COOKS, R.G. Bacterial growth monitored by two-dimensional tandem mass spectrometry. In ANALYST. ISSN 0003-2654, FEB 28 2022, vol. 147, no. 5, p. 940-946. Dostupné na: https://doi.org/10.1039/d1an01901e, Registrované v: WOS

9. [1.1] VAN AALST, E.J.G. - BORCIK, C.J. - WYLIE, B. Spectroscopic signatures of bilayer ordering in native biological membranes. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-2736, JUN 1 2022, vol. 1864, no. 6. Dostupné na: https://doi.org/10.1016/j.bbamem.2022.183891, Registrované v: WOS

10. [1.1] VILLANUEVA, J.A. - CROOKS, A.L. - NAGY, T.A. - QUINTANA, J.L.J. - DALEBROUX, Z.D. - DETWEILER, C.S. Salmonella enterica Infections Are Disrupted by Two Small

Molecules That Accumulate within Phagosomes and Differentially Damage Bacterial Inner Membranes. In MBIO. ISSN 2150-7511, OCT 26 2022, vol. 13, no. 5. Dostupné na: https://doi.org/10.1128/mbio.01790-22, Registrované v: WOS

ADCA09 BARÁK, Imrich - BEHARI, J. - OLMEDO, G. - GUZMÁN, P. - CASTRO, E. - BROWN, D.P. - WALKER, D. - WESTPHELING, J. - YOUNGMAN, P. Structure and function of the Bacillus SpoIIE protein and its localization to sites of sporulation septum assembly. In Molecular Microbiology, 1996, vol. 19, p. 1047-1060. ISSN 0950-382X. Dostupné na: https://doi.org/10.1046/j.1365-2958.1996.433963.x

Citácie:

1. [1.1] RAJ, K. - RISHI, P. - SHUKLA, G. - RUDRAMURHTY, S.M. - MONGAD, D.S. - KAUR, A. Possible Contribution of Alternative Transcript Isoforms in Mature Biofilm Growth Phase of Candida glabrata. In INDIAN JOURNAL OF MICROBIOLOGY. ISSN 0046-8991, DEC 2022, vol. 62, no. 4, p. 583-601. Dostupné na: https://doi.org/10.1007/s12088-022-01036-7, Registrované v: WOS

2. [1.2] VILLA, T. G. - SÁNCHEZ, S. - FEIJOO, L. - RAMA, J. L.R. - SÁNCHEZ-PÉREZ, A. - DE MIGUEL, T. - SIEIRO, C. Genetics and biochemistry of sporulation in endospore-forming bacteria (Bacillus): A prime example of developmental biology. In Developmental Biology in Prokaryotes and Lower Eukaryotes, 2021-07-31, pp. 71-124. Dostupné na: https://doi.org/10.1007/978-3-030-77595-7_3, Registrované v: SCOPUS

ADCA10 BARÁK, Imrich - MUCHOVÁ, Katarína - WILKINSON, A.J. - TOOLE, O. - PAVLENDOVÁ, Naďa. Lipid spirals in Bacillus subtilis and their role in cell division. In Molecular Microbiology, 2008, vol. 68, p. 1315-1327. (2007: 5.462 - IF, Q1 - JCR, 3.868 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/j.1365-2958.2008.06236.x

Citácie:

1. [1.1] RAMOS, Yusibeska - SANSONE, Stephanie - HWANG, Sung-Min - SANDOVAL, Tito A. - ZHU, Mengmeng - ZHANG, Guoan - CUBILLOS-RUIZ, Juan R. - MORALES, Diana K. Remodeling of the Enterococcal Cell Envelope during Surface Penetration Promotes Intrinsic Resistance to Stress. In MBIO, 2022, vol. 13, no. 6, pp. ISSN 2150-7511. Dostupné na: https://doi.org/10.1128/mbio.02294-22, Registrované v: WOS

2. [1.2] WATKINS, Daniel W. - WILLIAMS, Sophie L. - COLLINSON, Ian. A bacterial secretosome for regulated envelope biogenesis and quality control? In Microbiology (United Kingdom), 2022-01-01, 168, 10, pp. ISSN 13500872. Dostupné na: https://doi.org/10.1099/mic.0.001255, Registrované v: SCOPUS

ADCA11 BARÁK, Imrich - RICCA, E. - CUTTING, S.M. From fundamental studies of sporulation to applied spore research. In Molecular Microbiology, 2005, vol. 55, p. 330-338. ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/j.1365-2958.2004.04445.x

Citácie:

1. [1.1] NEFTALI MARQUEZ-GODOY, Jaime - GONZALEZ-ESCOBEDO, Roman. Omic technologies for the exploration of the soil biocrust. In TERRA LATINOAMERICANA, 2022, vol. 40, no., pp. ISSN 0187-5779. Dostupné na: https://doi.org/10.28940/terra.v40i0.1062, Registrované v: WOS

2. [1.2] NWOGWU, Nathaniel A. - AJIBADE, Fidelis O. - AJIBADE, Temitope F. - ADELODUN, Bashir - AJALA, Oluwaseyi A. - KUMAR, Pankaj - UGYA, Adamu Y. - DEMISSIE, Hailu - LASISI, Kayode H. - GUADIE, Awoke. Adapting to the Changing Environment: Microbial Way of Life. In Microbial Biocontrol: Food Security and Post Harvest Management: Volume 2, 2022-01-01, 2, pp. 311-334. Dostupné na: https://doi.org/10.1007/978-3-030-87289-2_14, Registrované v: SCOPUS

ADCA12 BARÁK, Imrich - YOUNGMAN, P. SpoIIE mutants of Bacillus subtilis comprises two distinct phenotypic classes consistent with a dual functional role for the SpoIIE protein. In Journal of Bacteriology, 1996, vol. 178, p. 4984-4989. ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/jb.178.16.4984-4989.1996

Citácie:

1. [1.1] HOU, S. - ZHANG, R.B. - LERECLUS, D. - PENG, Q. - ZHANG, J. - SLAMTI, L. - SONG, F.P. The Transcription Factor CpcR Determines Cell Fate by Modulating the Initiation of Sporulation in Bacillus thuringiensis. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, MAR 2022, vol. 88, no. 6. Dostupné na: https://doi.org/10.1128/aem.02374-21, Registrované v: WOS

ADCA13 BARÁK, Imrich - PREPIAK, P. - SCHMEISSER, F. MinCD proteins control the septation process during sporulation of Bacillus subtilis. In Journal of Bacteriology, 1998, vol. 180, p. 5327-5333. (1997: 3.805 - IF). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/jb.180.20.5327-5333.1998

Citácie:

1. [1.1] MILLER, Allyssa K. - HERMAN, Jennifer K. RefZ and Noc Act Synthetically to Prevent

Aberrant Divisions during Bacillus subtilis Sporulation. In JOURNAL OF BACTERIOLOGY, 2022, vol. 204, no. 6, pp. ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/jb.00023-22, Registrované v: WOS

ADCA14 BAUER, Jacob** - PAVLOVIĆ, Jelena - BAUEROVÁ, Vladena. Normal mode analysis as a routine part of a structural investigation. In Molecules, 2019, vol. 24, no. 15, p. 3293. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24183293

Citácie:

1. [1.1] LAUGHLIN, T.G. - DEEP, A. - PRICHARD, A.M. - SEITZ, C. - GU, Y.J. - ENUSTUN, E. - SUSLOV, S. - KHANNA, K. - BIRKHOLZ, E.A. - ARMBRUSTER, E. - MCCAMMON, J.A. - AMARO, R.E. - POGLIANO, J. - CORBETT, K.D. - VILLA, E. Architecture and self-assembly of the jumbo bacteriophage nuclear shell. In NATURE. ISSN 0028-0836, AUG 11 2022, vol. 608, no. 7922, p. 429-+., Registrované v: WOS

2. [1.1] LEDOUX, J. - TROUVE, A. - TCHERTANOV, L. The Inherent Coupling of Intrinsically Disordered Regions in the Multidomain Receptor Tyrosine Kinase KIT. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. FEB 2022, vol. 23, no. 3., Registrované v: WOS

3. [1.1] OTHMAN, H. - JEMIMAH, S. - DA ROCHA, J.E.B. SWAAT Bioinformatics Workflow for Protein Structure-Based Annotation of ADME Gene Variants. In JOURNAL OF PERSONALIZED MEDICINE. FEB 2022, vol. 12, no. 2., Registrované v: WOS

4. [1.1] TANG, C. - WANG, Y.D. - CHENG, J. - CHANG, C. - HU, J. - LU, J.H. Probing terahertz dynamics of multidomain protein in cell-like confinement. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, JUL 5 2022, vol. 275., Registrované v: WOS

5. [1.1] UZOETO, H.O. - COSMAS, S. - AJIMA, J.N. - ARAZU, A.V. - DIDIUGWU, C.M. - EKPO, D.E. - IBIANG, G.O. - DUROJAYE, O.A. Computer-aided molecular modeling and structural analysis of the human centromere protein-HIKM complex. In BENI-SUEF UNIVERSITY JOURNAL OF BASIC AND APPLIED SCIENCES. AUG 19 2022, vol. 11, no. 1., Registrované v: WOS

ADCA15 BAUEROVÁ, Vladena - XING, G.X. - BAUER, Jacob - SHIN, Y.J. - DIONNE, I. - RAJASHANKAR, K.R. - BELL, S.D. - LING, H. Structures of monomeric, dimeric and trimeric PCNA: PCNA-ring assembly and opening. In Acta Crystallographica D, 2008, vol. D64, p. 941-949. (2007: 2.620 - IF, Q1 - JCR, karentované - CCC). (2008 - Current Contents). ISSN 2059-7983. Dostupné na: https://doi.org/10.1107/S0907444908021665

Citácie:

1. [1.1] SARALA, S. - GEETHA, S. K. - MUTHU, S. - IRFAN, Ahmad. Computational examination on monomeric, dimeric, trimeric structural and vibrational interactions, AIM, Hirshfeld, IGM and oxygenated solvent effect on optical properties for pyridine N-oxide. In JOURNAL OF THE INDIAN CHEMICAL SOCIETY, 2022, vol. 99, no. 10, pp. ISSN 0019-4522. Dostupné na: https://doi.org/10.1016/j.jics.2022.100660, Registrované v: WOS

ADCA16 BAUEROVÁ, Vladena - DVORSKÝ, Radovan - PEREČKO, D. - POVAŽANEC, František - ŠEVČÍK, Jozef. Structure of RNase Sa2 complexes with mononucleotides – new aspects of catalytic reaction and substrate recognition. In FEBS Journal, 2009, vol. 276, no. 15, p. 4156 - 4168. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2009.07125.x

Citácie:

1. [1.1] YU, Victor - RONZONE, Erik - LORD, Dana - PETI, Wolfgang - PAGE, Rebecca. MqsR is a noncanonical microbial RNase toxin that is inhibited by antitoxin MqsA via steric blockage of substrate binding. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2022, vol. 298, no. 11, pp. Dostupné na: https://doi.org/10.1016/j.jbc.2022.102535, Registrované v: WOS

ADCA17 BAUEROVÁ, Vladena** - HAJDÚCHOVÁ, Dominika - BAUER, Jacob. Structure and function of the human ryanodine receptors and their association with myopathies—present state, challenges, and perspectives. In Molecules, 2020, vol. 25, no. 4040. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules25184040

Citácie:

1. [1.1] ANDERSON, C.L. - MUNAWAR, S. - REILLY, L. - KAMP, T.J. - JANUARY, C.T. - DELISLE, B.P. - ECKHARDT, L.L. How Functional Genomics Can Keep Pace With VUS Identification. In FRONTIERS IN CARDIOVASCULAR MEDICINE. ISSN 2297-055X, JUL 4 2022, vol. 9., Registrované v: WOS

2. [1.1] LOPEZ, R. - JANICEK, R. - FERNANDEZ-TENORIO, M. - COURTEHOUX, M. - MATAS, L. - GERBAUD, P. - GOMEZ, A.M. - EGGER, M. - NIGGLI, E. Uptake-leak balance of SR Ca 2+ determines arrhythmogenic potential of Ry(R420Q+/-) cardiomyocytes. In JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY. ISSN 0022-2828, SEP 2022, vol. 170, p.

1-14., Registrované v: WOS
3. [1.1] MATUZ-MARES, D. - GONZALEZ-ANDRADE, M. - ARAIZA-VILLANUEVA, M.G. - VILCHIS-LANDEROS, M.M. - VAZQUEZ-MEZA, H. Mitochondrial Calcium: Effects of Its Imbalance in Disease. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5., Registrované v: WOS
4. [1.1] SALVAGE, S.C. - HUANG, C.L.H. - FRASER, J.A. - DULHUNTY, A.F. How does flecainide impact RyR2 channel function?. In JOURNAL OF GENERAL PHYSIOLOGY. ISSN 0022-1295, JUN 17 2022, vol. 154, no. 9., Registrované v: WOS
5. [1.1] WANG, Y.L. - HOU, Y.Y. - SONG, S.F. - ZUO, Y. - YU, Y. - CHI, Y.F. - ZHANG, T. Harm of circadian misalignment to the hearts of the adolescent wistar rats. In JOURNAL OF TRANSLATIONAL MEDICINE. AUG 6 2022, vol. 20, no. 1., Registrované v: WOS

ADCA18 BEKE, Gábor - STANO, Matej - KĽUČÁR, Ľuboš. Modelling the interaction between bacteriophages and their bacterial hosts. In Mathematical Biosciences, 2016, vol. 279, p. 27–32. (2015: 1.256 - IF, Q3 - JCR, 0.712 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0025-5564. Dostupné na: https://doi.org/10.1016/j.mbs.2016.06.009

Citácie:
1. [1.1] SONGPHASUK, T. - IMKLIN, N. - SRIPRASONG, P. - WOONWONG, Y. - NASANIT, R. - SAJAPITAK, S. Bacteriophage efficacy in controlling swine enteric colibacillosis pathogens: An in vitro study. In VETERINARY WORLD. ISSN 0972-8988, DEC 2022, vol. 15, no. 12, p. 2822-2829. Dostupné na: https://doi.org/10.14202/vetworld.2022.2822-2829, Registrované v: WOS
2. [1.1] ZHOU, Y.Q. - XU, D.T. - YU, H.J. - HAN, J.Z. - LIU, W.L. - QU, D.F. Encapsulation of Salmonella phage SL01 in alginate/carrageenan microcapsules as a delivery system and its application in vitro. In FRONTIERS IN MICROBIOLOGY. AUG 4 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.906103, Registrované v: WOS

ADCA19 BERNROITNER, M. - ZÁMOCKÝ, Marcel - PAIRER, M. - FURTMULLER, P.G. - PESCHEK, G.A. - OBINGER, C. Heme-copper oxidasesand their electron donors in cyanobacterial respiratory electron transport. In Chemistry & biodiversity, 2008, vol. 5, p. 1927-1961. (2007: 1.420 - IF, Q2 - JCR, 0.689 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1612-1872. Dostupné na: https://doi.org/10.1002/cbdv.200890180

Citácie:
1. [1.1] AYALEW, Habtamu - PEIRIS, Shantha - CHILUWAL, Anuj - KUMAR, Ritesh - TIWARI, Manish - OSTMEYER, Troy - BEAN, Scott - JAGADISH, S. V. Krishna. Stable sorghum grain quality QTL were identified using SC35 x RTx430 mapping population. In PLANT GENOME, 2022, vol. 15, no. 3, pp. Dostupné na: https://doi.org/10.1002/tpg2.20227, Registrované v: WOS
2. [1.1] MURALI, Ranjani - HEMP, James - GENNIS, Robert B. Evolution of quinol oxidation within the heme-copper oxidoreductase superfamily. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOENERGETICS, 2022, vol. 1863, no. 8, pp. ISSN 0005-2728. Dostupné na: https://doi.org/10.1016/j.bbabio.2022.148907, Registrované v: WOS

ADCA20 BERNROITNER, M. - ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - PESCHEK, G.A. - OBINGER, C. Occurrence, phylogeny, structure, and function of catalases and peroxidases in cyanobacteria. In Journal of experimental botany, 2009, vol. 60, p. 423-440. (2008: 4.001 - IF, Q1 - JCR, 2.234 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0022-0957. Dostupné na: https://doi.org/10.1093/jxb/ern309

Citácie:
1. [1.1] PAPADIMITRIOU, T. - KATSIAPI, M. - STEFANIDOU, N. - PAXINOU, A. - POULIMENAKOU, V. - LASPIDOU, C.S. - MOUSTAKA-GOUNI, M. - KORMAS, K.A. Differential Effect of Hydroxen Peroxide on Toxic Cyanobacteria of Hypertrophic Mediterranean Waterbodies. In SUSTAINABILITY. JAN 2022, vol. 14, no. 1. Dostupné na: https://doi.org/10.3390/su14010123, Registrované v: WOS
2. [1.1] PESTANA, C.J. - SANTOS, A.A. - CAPELO-NETO, J. - MELO, V.M.M. - REIS, K.C. - OLIVEIRA, S. - ROGERS, R. - PACHECO, A.B.F. - HUI, J.N. - SKILLEN, N.C. - BARROS, M.U.G. - EDWARDS, C. - AZEVEDO, S.M.F.O. - ROBERTSON, P.K.J. - IRVINE, J.T.S. - LAWTON, L.A. Suppressing cyanobacterial dominance by UV-LED TiO2-photocatalysis in a drinking water reservoir: A mesocosm study. In WATER RESEARCH. ISSN 0043-1354, NOV 1 2022, vol. 226. Dostupné na: https://doi.org/10.1016/j.watres.2022.119299, Registrované v: WOS
3. [1.1] RIAZ, A. - DENG, F.L. - CHEN, G. - JIANG, W. - ZHENG, Q.F. - RIAZ, B. - MAK, M. - ZENG, F.R. - CHEN, Z.H. Molecular Regulation and Evolution of Redox Homeostasis in Photosynthetic Machinery. In ANTIOXIDANTS. NOV 2022, vol. 11, no. 11. Dostupné na: https://doi.org/10.3390/antiox11112085, Registrované v: WOS
4. [1.1] SAMANTA, L. - STENSJö, K. - LINDBLAD, P. - BHATTACHARYA, J. Differential catalase activity and tolerance to hydrogen peroxide in the filamentous cyanobacteria Nostoc punctiforme ATCC 29133 and Anabaena sp. PCC 7120. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, FEB 2022, vol. 204, no. 2. Dostupné na:

https://doi.org/10.1007/s00203-021-02643-6, Registrované v: WOS
5. [1.1] SMITH, D.J. - BERRY, M.A. - CORY, R.M. - JOHENGEN, T.H. - KLING, G.W. - DAVIS, T.W. - DICK, G.J. Heterotrophic Bacteria Dominate Catalase Expression during Microcystis Blooms. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, JUL 26 2022, vol. 88, no. 14. Dostupné na: https://doi.org/10.1128/aem.02544-21, Registrované v: WOS
6. [1.2] RAI, Snigdha - SITTHER, Viji. Oxidative stress in cyanobacteria: Sources, mitigation, and defense. In Expanding Horizon of Cyanobacterial Biology, 2022-01-01, pp. 163-178. Dostupné na: https://doi.org/10.1016/B978-0-323-91202-0.00003-8, Registrované v: SCOPUS

ADCA21 BERTELLI, M. - KAINI, A.K. - PAOLACCI, S.** - MANARA, E. - KURTI, D. - DHULI, K. - BUSHATI, V. - MIERTUS, J. - PANGALLO, Domenico - BAGLIVO, M. - BECCARI, T. - MICHELINI, S. Hydroxytyrosol: A natural compound with promising pharmacological activities. In Journal of Biotechnology, 2020, vol. 309, p. 29-33. (2019: 3.503 - IF, Q2 - JCR, 0.992 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2019.12.016

Citácie:
1. [1.1] ABBASI-PARIZAD, P. - SCARAFONI, A. - PILU, R. - SCAGLIA, B. - DE NISI, P. - ADANI, F. The recovery from agro-industrial wastes provides different profiles of anti-inflammatory polyphenols for tailored applications. In FRONTIERS IN SUSTAINABLE FOOD SYSTEMS. NOV 8 2022, vol. 6., Registrované v: WOS
2. [1.1] BARTOLOMEI, M. - CAPRIOTTI, A.L. - LI, Y.C. - BOLLATI, C. - LI, J.Q. - CERRATO, A. - CECCHI, L. - PUGLIESE, R. - BELLUMORI, M. - MULINACCI, N. - LAGANA, A. - ARNOLDI, A. - LAMMI, C. Exploitation of Olive (Olea europaea L.) Seed Proteins as Upgraded Source of Bioactive Peptides with Multifunctional Properties: Focus on Antioxidant and Dipeptidyl-Dipeptidase-IV Inhibitory Activities, and Glucagon-like Peptide 1 Improved Modulation. In ANTIOXIDANTS. SEP 2022, vol. 11, no. 9., Registrované v: WOS
3. [1.1] CHATZIKONSTANTINOU, A.V. - GIANNAKOPOULOU, A. - SPYROU, S. - SIMOS, Y.V. - KONTOGIANNI, V.G. - PESCHOS, D. - KATAPODIS, P. - POLYDERA, A.C. - STAMATIS, H. Production of hydroxytyrosol rich extract from Olea europaea leaf with enhanced biological activity using immobilized enzyme reactors. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, APR 2022, vol. 29, no. 20, p. 29624-29637., Registrované v: WOS
4. [1.1] CUOMO, F. - IACOVINO, S. - SACCO, P. - DE LEONARDIS, A. - CEGLIE, A. - LOPEZ, F. Progress in Colloid Delivery Systems for Protection and Delivery of Phenolic Bioactive Compounds: Two Study Cases-Hydroxytyrosol and Curcumin. In MOLECULES. FEB 2022, vol. 27, no. 3., Registrované v: WOS
5. [1.1] FANCELLO, F. - MULTINEDDU, C. - SANTONA, M. - MOLINU, M.G. - ZARA, G. - DETTORI, S. - DEIANA, P. - ZARA, S. Antimicrobial activities of virgin olive oils in vitro and on lettuce from pathogen-inoculated commercial quick salad bags. In FOOD CONTROL. ISSN 0956-7135, MAR 2022, vol. 133, B., Registrované v: WOS
6. [1.1] HAN, H. - ZHONG, R.Q. - ZHOU, Y.X. - XIONG, B.H. - CHEN, L. - JIANG, Y. - LIU, L. - SUN, H.Q. - TAN, J.J. - TAO, F.P. - ZHAO, Y. - ZHANG, H.F. Hydroxytyrosol Benefits Boar Semen Quality via Improving Gut Microbiota and Blood Metabolome. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JAN 17 2022, vol. 9., Registrované v: WOS
7. [1.1] INCHINGOLO, A.D. - MALCANGI, G. - CECI, S. - PATANO, A. - CORRIERO, A. - VIMERCATI, L. - AZZOLLINI, D. - MARINELLI, G. - COLOCCIA, G. - PIRAS, F. - BARILE, G. - SETTANNI, V. - MANCINI, A. - DE LEONARDIS, N. - GAROFOLI, G. - PALMIERI, G. - ISACCO, C.G. - RAPONE, B. - SCARDAPANE, A. - CURATOLI, L. - QUARANTA, N. - RIBEZZI, M. - MASSARO, M. - JONES, M. - BORDEA, I.R. - TARTAGLIA, G.M. - SCARANO, A. - LORUSSO, F. - MACCHIA, L. - LAROCCA, A.M.V. - AITYAN, S.K. - TAFURI, S. - STEFANIZZI, P. - MIGLIORE, G. - BRIENZA, N. - DIPALMA, G. - FAVIA, G. - INCHINGOLO, F. Effectiveness of SARS-CoV-2 Vaccines for Short- and Long-Term Immunity: A General Overview for the Pandemic Contrast. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, AUG 2022, vol. 23, no. 15., Registrované v: WOS
8. [1.1] LAKA, K. - MBITA, Z. P53-Related Anticancer Activities of Drimia calcarata Bulb Extracts Against Lung Cancer. In FRONTIERS IN MOLECULAR BIOSCIENCES. JUN 13 2022, vol. 9., Registrované v: WOS
9. [1.1] LEO, M. - MUCCILLO, L. - PRANZINI, E. - BARISCIANO, G. - PARRI, M. - LOPATRIELLO, G. - CARLOMAGNO, M. - SANTI, A. - TADDEI, M.L. - SABATINO, L. Transcriptomic Analysis of Colorectal Cancer Cells Treated with Oil Production Waste Products (OPWPs) Reveals Enrichment of Pathways of Mitochondrial Functionality. In CELLS. DEC 2022, vol. 11, no. 24., Registrované v: WOS
10. [1.1] LI, X.L. - TIAN, X.Y. - LIU, T.L. - LI, M.X. - WANG, W.G. - WANG, P. - GUO, Z.L. Hydroxytyrosol Alleviated Hypoxia-Mediated PC12 Cell Damage through Activating

PI3K/AKT/mTOR-HIF-1 alpha Signaling. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, JUN 3 2022, vol. 2022., Registrované v: WOS
11. [1.1] LIU, H.Y. - WU, X.X. - MA, H. - LI, J. - LIU, Z.Y. - GUO, X.F. - DONG, J. - ZOU, S.L. - LUO, Y.Z. High-Level Production of Hydroxytyrosol in Engineered Saccharomyces cerevisiae. In ACS SYNTHETIC BIOLOGY. ISSN 2161-5063, NOV 18 2022, vol. 11, no. 11, p. 3706-3713., Registrované v: WOS
12. [1.1] MADUREIRA, J. - MARGACA, F.M.A. - SANTOS-BUELGA, C. - FERREIRA, I.C.F.R. - VERDE, S.C. - BARROS, L. Applications of bioactive compounds extracted from olive industry wastes: A review. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, JAN 2022, vol. 21, no. 1, p. 453-476., Registrované v: WOS
13. [1.1] MAHMOD, A.I. - HAIF, S.K. - KAMAL, A. - AL-ATABY, I.A. - TALIB, W.H. Chemoprevention effect of the Mediterranean diet on colorectal cancer: Current studies and future prospects. In FRONTIERS IN NUTRITION. ISSN 2296-861X, AUG 4 2022, vol. 9., Registrované v: WOS
14. [1.1] NUNES, A. - MARTO, J. - GONCALVES, L. - MARTINS, A.M. - FRAGA, C. - RIBEIRO, H.M. Potential therapeutic of olive oil industry by-products in skin health: a review. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, JAN 2022, vol. 57, no. 1, SI, p. 173-187., Registrované v: WOS
15. [1.1] PAPAGEORGIOU, C.S. - LYMBEROPOULOS, S. - BAKAS, P. - ZAGKLIS, D.P. - SYGOUNI, V. - PARASKEVA, C.A. Hydroxytyrosol Enrichment of Olive Leaf Extracts via Membrane Separation Processes. In MEMBRANES. NOV 2022, vol. 12, no. 11., Registrované v: WOS
16. [1.1] PICCININO, D. - CAPECCHI, E. - TRIFERO, V. - TOMAINO, E. - MARCONI, C. - DEL GIUDICE, A. - GALANTINI, L. - POPONI, S. - RUGGIERI, A. - SALADINO, R. Lignin Nanoparticles as Sustainable Photoprotective Carriers for Sunscreen Filters. In ACS OMEGA. ISSN 2470-1343, OCT 25 2022, vol. 7, no. 42, p. 37070-37077., Registrované v: WOS
17. [1.1] ROBERTS, J.D. - LILLIS, J. - PINTO, J.M. - WILLMOTT, A.G.B. - GAUTAM, L. - DAVIES, C. - LOPEZ-SAMANES, A. - DEL COSO, J. - CHICHGER, H. The Impact of a Natural Olive-Derived Phytocomplex (OliPhenolia (R)) on Exercise-Induced Oxidative Stress in Healthy Adults. In NUTRIENTS. DEC 2022, vol. 14, no. 23., Registrované v: WOS
18. [1.1] SAIN, A. - SAHU, S. - NASKAR, D. Potential of olive oil and its phenolic compounds as therapeutic intervention against colorectal cancer: a comprehensive review. In BRITISH JOURNAL OF NUTRITION. ISSN 0007-1145, OCT 14 2022, vol. 128, no. 7, SI, p. 1257-1273., Registrované v: WOS
19. [1.1] TERRACINA, S. - PETRELLA, C. - FRANCATI, S. - LUCARELLI, M. - BARBATO, C. - MINNI, A. - RALLI, M. - GRECO, A. - TARANI, L. - FIORE, M. - FERRAGUTI, G. Antioxidant Intervention to Improve Cognition in the Aging Brain: The Example of Hydroxytyrosol and Resveratrol. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2022, vol. 23, no. 24., Registrované v: WOS
20. [1.1] TOULABI, T. - DELFAN, B. - RASHIDIPOUR, M. - YARAHMADI, S. - RAVANSHAD, F. - JAVANBAKHT, A. - ALMASIAN, M. The efficacy of olive leaf extract on healing herpes simplex virus labialis: A randomized double-blind study. In EXPLORE-THE JOURNAL OF SCIENCE AND HEALING. ISSN 1550-8307, MAY-JUN 2022, vol. 18, no. 3, p. 287-292., Registrované v: WOS
21. [1.1] VILLALVA, M. - SILVAN, J.M. - GUERRERO-HURTADO, E. - GUTIERREZ-DOCIO, A. - DEL HIERRO, J.N. - ALARCON-CAVERO, T. - PRODANOV, M. - MARTIN, D. - MARTINEZ-RODRIGUEZ, A.J. Influence of In Vitro Gastric Digestion of Olive Leaf Extracts on Their Bioactive Properties against H. pylori. In FOODS. JUL 2022, vol. 11, no. 13., Registrované v: WOS
22. [1.1] WANG, Q. - WANG, C.J. - ABDULLAH - TIAN, W.N. - QIU, Z.Y. - SONG, M.Y. - CAO, Y. - XIAO, J. Hydroxytyrosol Alleviates Dextran Sulfate Sodium-Induced Colitis by Modulating Inflammatory Responses, Intestinal Barrier, and Microbiome. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, FEB 23 2022, vol. 70, no. 7, p. 2241-2252., Registrované v: WOS
23. [1.1] YESTE, N. - PEREZ-VALLE, J. - VAZQUEZ-GOMEZ, M. - GARCIA-CONTRERAS, C. - GONZALEZ-BULNES, A. - BASSOLS, A. Polyphenols and IUGR Pregnancies: Effects of the Antioxidant Hydroxytyrosol on the Hippocampus Proteome in a Porcine Model. In ANTIOXIDANTS. JUN 2022, vol. 11, no. 6., Registrované v: WOS
24. [1.1] ZELLAMA, M.S. - CHAHDOURA, H. - ZAIRI, A. - ZIANI, B.E.C. - BOUJBIHA, M.A. - SNOUSSI, M. - ISMAIL, S. - FLAMINI, G. - MOSBAH, H. - SELMI, B. - EL-BOK, S. - CHAOUACHI, M. Chemical characterization and nutritional quality investigations of healthy extra virgin olive oil flavored with chili pepper. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, MAR 2022, vol. 29, no. 11, p. 16392-16403.,

Registrované v: WOS
25. [1.1] ZHAN, X.J. - HE, M.S. - PEI, J.R. - FAN, W.J. - MWANGI, C.N. - ZHANG, P. - CHAI, X. - JIANG, M.M. Natural Phenylethanoid Supplementation Alleviates Metabolic Syndrome in Female Mice Induced by High-Fructose Diet. In FRONTIERS IN PHARMACOLOGY. JUL 19 2022, vol. 13., Registrované v: WOS
26. [1.1] ZOTTA, T. - GIAVALISCO, M. - PARENTE, E. - PICARIELLO, G. - SIANO, F. - RICCIARDI, A. Selection of Lactiplantibacillus Strains for the Production of Fermented Table Olives. In MICROORGANISMS. MAR 2022, vol. 10, no. 3., Registrované v: WOS

ADCA22 BÍLIKOVÁ, Katarína - POPOVA, M. - TRUSHEVA, B. - BANKOVA, V. New anti-Paenibacillus larvae substances purified from propolis. In Apidologie, 2013, vol. 44, p. 278-285. (2012: 2.155 - IF, Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0044-8435. Dostupné na: https://doi.org/10.1007/s13592-012-0178-1

Citácie:
1. [1.1] HU, H. - WANG, Y.Y. - ZHU, H.Q. - DONG, J. - QIAO, J.T. - KONG, L.J. - ZHANG, H.C. Two novel markers to discriminate poplar-type propolis from poplar bud extracts: 9-oxo-ODE and 9-oxo-ODA. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, JAN 2022, vol. 105. Dostupné na: https://doi.org/10.1016/j.jfca.2021.104196, Registrované v: WOS
2. [1.1] IORIZZO, M. - LETIZIA, F. - GANASSI, S. - TESTA, B. - PETRARCA, S. - ALBANESE, G. - DI CRISCIO, D. - DE CRISTOFARO, A. Functional Properties and Antimicrobial Activity from Lactic Acid Bacteria as Resources to Improve the Health and Welfare of Honey Bees. In INSECTS. MAR 2022, vol. 13, no. 3. Dostupné na: https://doi.org/10.3390/insects13030308, Registrované v: WOS
3. [1.1] YE, M.H. - LI, X.Y. - REN, Z.X. - TAREQUL, I.M. - JI, C. - JI, J. - JI, F.B. - ZHOU, B. - YANG, S.M. Identification of gallic acid in Trapa bispinosa as an effective inhibitor of the vegetative growth and spore germination of Paenibacillus larvae. In APIDOLOGIE. ISSN 0044-8435, MAY 2022, vol. 53, no. 2. Dostupné na: https://doi.org/10.1007/s13592-022-00935-4, Registrované v: WOS

ADCA23 BÍLIKOVÁ, Katarína - MIRGORODSKAYA, E. - BUKOVSKÁ, Gabriela - GOBOM, J. - LEHRACH, H. - ŠIMÚTH, Jozef. Towards functional proteomics of minority component of honeybee royal jelly: The effect of post-translational modifications on the antimicrobial activity of apalbumin2. In Proteomics, 2009, vol. 9, p. 2131-2138. (2008: 4.586 - IF, Q1 - JCR, 1.610 - SJR, Q1 - SJR). ISSN 1615-9853. Dostupné na: https://doi.org/10.1002/pmic.200800705

Citácie:
1. [1.1] MURESAN, Carmen Ioana - DEZMIREAN, Daniel Severus - MARC, Bianca Dana - SUHAROSCHI, Ramona - POP, Oana Lelia - BUTTSTEDT, Anja. Biological properties and activities of major royal jelly proteins and their derived peptides. In JOURNAL OF FUNCTIONAL FOODS, 2022, vol. 98, no., pp. ISSN 1756-4646. Dostupné na: https://doi.org/10.1016/j.jff.2022.105286, Registrované v: WOS
2. [1.2] CHIEN, Han Ju - ZHENG, Yi Feng - WANG, Wei Chen - KUO, Cheng Yu - HSU, Yu Ming - LAI, Chien Chen. Determination of adulteration, geographical origins, and species of food by mass spectrometry. In Mass Spectrometry Reviews, 2022-01-01, pp. ISSN 02777037. Dostupné na: https://doi.org/10.1002/mas.21780, Registrované v: SCOPUS

ADCA24 BISCHOFF, M. - DUNMAN, P. - KORMANEC, Ján - MACAPAGAL, D. - MURPHY, E. - MOUNTS, W. - BERGER-BACHI, B. - PROJAN, S. Microarray-based analysis of the Staphylococcus aureus sigmaB regulon. In Journal of Bacteriology, 2004, vol. 186, p. 4085-4099. (2004 - Current Contents). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.186.13.4085-4099.2004

Citácie:
1. [1.1] AUBOURG, M. - POTTIER, M. - LéON, A. - BERNAY, B. - DHALLUIN, A. - CACACI, M. - TORELLI, R. - LEDORMAND, P. - MARTINI, C. - SANGUINETTI, M. - AUZOU, M. - GRAVEY, F. - GIARD, J.C. Inactivation of the Response Regulator AgrA Has a Pleiotropic Effect on Biofilm Formation, Pathogenesis and Stress Response in Staphylococcus lugdunensis. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, FEB 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.1128/spectrum.01598-21, Registrované v: WOS
2. [1.1] BUKOWSKI, M. - KOSECKA-STROJEK, M. - MADRY, A. - ZAGORSKI-PRZYBYLO, R. - ZADLO, T. - GAWRON, K. - WLADYKA, B. Staphylococcal saoABC Operon Codes for a DNA-Binding Protein SaoC Implicated in the Response to Nutrient Deficit. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, JUN 2022, vol. 23, no. 12. Dostupné na: https://doi.org/10.3390/ijms23126443, Registrované v: WOS
3. [1.1] GUO, H.A. - TONG, Y.C. - CHENG, J.H. - ABBAS, Z. - LI, Z.X. - WANG, J.Y. - ZHOU, Y.C. - SI, D.Y. - ZHANG, R.J. Biofilm and Small Colony Variants-An Update on Staphylococcus aureus Strategies toward Drug Resistance. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. FEB 2022, vol. 23, no. 3. Dostupné na:

https://doi.org/10.3390/ijms23031241, Registrované v: WOS
4. [1.1] HE, X.L. - ZHANG, W.W. - CAO, Q.C. - LI, Y.Y. - BAO, G.Y. - LIN, T. - BAO, J.J. - CHANG, C.W. - YANG, C.S. - YIN, Y. - XU, J.H. - REN, Z.Y. - JIN, Y.S. - LU, F. Global Downregulation of Penicillin Resistance and Biofilm Formation by MRSA Is Associated with the Interaction between Kaempferol Rhamnosides and Quercetin. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, DEC 21 2022, vol. 10, no. 6. Dostupné na: https://doi.org/10.1128/spectrum.02782-22, Registrované v: WOS
5. [1.1] KINNEY, K.J. - STACH, J.M. - KULHANKOVA, K. - BROWN, M. - SALGADO-PABON, W. Vegetation Formation in Staphylococcus Aureus Endocarditis Inversely Correlates With RNAIII and sarA Expression in Invasive Clonal Complex 5 Isolates. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, JUL 4 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fcimb.2022.925914, Registrované v: WOS
6. [1.1] MCKELLAR, S.W. - IVANOVA, I. - AREDE, P. - ZAPF, R.L. - MERCIER, N. - CHU, L.C. - MEDIATI, D.G. - PICKERING, A.C. - BRIAUD, P. - FOSTER, R.G. - KUDLA, G. - FITZGERALD, J.R. - CALDELARI, I. - CARROLL, R.K. - TREE, J.J. - GRANNEMAN, S. RNase III CLASH in MRSA uncovers sRNA regulatory networks coupling metabolism to toxin expression. In NATURE COMMUNICATIONS. JUN 22 2022, vol. 13, no. 1. Dostupné na: https://doi.org/10.1038/s41467-022-31173-y, Registrované v: WOS
7. [1.1] MEI, Y.C. - CHEN, H.Q. - YANG, B. - ZHAO, J.X. - ZHANG, H. - CHEN, W. Research progress on conjugated linoleic acid bio-conversion in Bifidobacterium. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, MAY 16 2022, vol. 369. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2022.109593, Registrované v: WOS
8. [1.1] MENARD, G. - SILARD, C. - SURIRAY, M. - ROUILLON, A. - AUGAGNEUR, Y. Thirty Years of sRNA-Mediated Regulation in Staphylococcus aureus: From Initial Discoveries to In Vivo Biological Implications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, JUL 2022, vol. 23, no. 13. Dostupné na: https://doi.org/10.3390/ijms23137346, Registrované v: WOS
9. [1.1] PANTHEE, S. - HAMAMOTO, H. - PAUDEL, A. - KAITO, C. - SUZUKI, Y. - SEKIMIZU, K. Hybrid assembly using long reads resolves repeats and completes the genome sequence of a laboratory strain of Staphylococcus aureus subsp. aureus RN4220. In HELIYON. NOV 2022, vol. 8, no. 11. Dostupné na: https://doi.org/10.1016/j.heliyon.2022.e11376, Registrované v: WOS
10. [1.1] WANG, H. - HOU, X. - SHEN, J.W. - WANG, W.H. - YE, Y.W. - YU, J.L. - XUE, T. Alternative sigma factor B reduces biofilm formation and stress response in milk-derived Staphylococcus aureus. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JUN 1 2022, vol. 162. Dostupné na: https://doi.org/10.1016/j.lwt.2022.113515, Registrované v: WOS
11. [1.1] YEHIA, F.A.Z.A. - YOUSEF, N. - ASKOURA, M. Celastrol mitigates staphyloxanthin biosynthesis and biofilm formation in Staphylococcus aureus via targeting key regulators of virulence; in vitro and in vivo approach. In BMC MICROBIOLOGY. ISSN 1471-2180, APR 15 2022, vol. 22, no. 1. Dostupné na: https://doi.org/10.1186/s12866-022-02515-z, Registrované v: WOS
12. [1.1] ZIA, H. - VON AH, U. - MENG, Y.H. - SCHMIDT, R. - KERLER, J. - FUCHSMANN, P. Biotechnological formation of dairy flavor inducing δ-lactones from vegetable oil. In FOOD CHEMISTRY-X. ISSN 2590-1575, MAR 30 2022, vol. 13. Dostupné na: https://doi.org/10.1016/j.fochx.2022.100220, Registrované v: WOS
13. [1.2] MCCLURE, Joann M. - ZHANG, Kunyan. Staphylococci. In Molecular Typing in Bacterial Infections, Volume II, Second Edition, 2022-01-01, 2, pp. 169-192. Dostupné na: https://doi.org/10.1007/978-3-030-83217-9_9, Registrované v: SCOPUS

ADCA25 BLAŠKOVIČ, Dušan - BARÁK, Imrich. Oligo-chip based assay for detection of tick-borne bacteria. In FEMS Microbiology Letters, 2005, vol. 243, p. 473-478. (2005 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/j.femsle.2005.01.010

Citácie:
1. [1.2] ANAND, Vandita - PANDEY, Anjana. Molecular biological techniques used in environmental engineering: Current prospects and challenges. In Wastewater Treatment Reactors: Microbial Community Structure, 2021-01-01, pp. 509-536. Dostupné na: https://doi.org/10.1016/B978-0-12-823991-9.00011-3, Registrované v: SCOPUS

ADCA26 BLESÁK, Karol - JANEČEK, Štefan. Sequence fingerprints of enzyme specificities from the glycoside hydrolase family GH57. In Extremophiles, 2012, vol. 16, p. 497-506. (2011: 2.941 - IF, Q2 - JCR, 1.552 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-012-0449-9

Citácie:

1. [1.1] KLAUS, Thomas - NINCK, Sabrina - ALBERSMEIER, Andreas - BUSCHE, Tobias - WIBBERG, Daniel - JIANG, Jianbing - ELCHENINOV, Alexander G. - ZAYULINA, Kseniya S. - KASCHANI, Farnusch - BRAESEN, Christopher - OVERKLEEFT, Herman S. - KALINOWSKI, Joern - KUBLANOV, Ilya V. - KAISER, Markus - SIEBERS, Bettina. Activity-Based Protein Profiling for the Identification of Novel Carbohydrate-Active Enzymes Involved in Xylan Degradation in the Hyperthermophilic Euryarchaeon Thermococcus sp. Strain 2319x1E. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 12, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2021.734039, Registrované v: WOS

2. [1.1] SARDAR, Puspendu - SUSTR, Vladimir - CHRONAKOVA, Alica - LORENC, Frantisek. Metatranscriptomic holobiont analysis of carbohydrate-active enzymes in the millipede Telodeinopus aoutii (Diplopoda, Spirostreptida). In FRONTIERS IN ECOLOGY AND EVOLUTION, 2022, vol. 10, no., pp. ISSN 2296-701X. Dostupné na: https://doi.org/10.3389/fevo.2022.931986, Registrované v: WOS

3. [1.2] XIANG, Gang - LEEMHUIS, Hans - VAN DER MAAREL, Marc Jos Elise Cornelis. Structural elements determining the transglycosylating activity of glycoside hydrolase family 57 glycogen branching enzymes. In Proteins: Structure, Function and Bioinformatics, 2022-01-01, 90, 1, pp. 155-163. ISSN 08873585. Dostupné na: https://doi.org/10.1002/prot.26200, Registrované v: SCOPUS

ADCA27 BODIK, Michal** - KRAJČÍKOVÁ, Daniela - HAGARA, Jakub - MAJKOVÁ, Eva - BARÁK, Imrich** - ŠIFFALOVIČ, Peter. Diffraction pattern of Bacillus subtilis CotY spore coat protein 2D crystals. In Colloids and Surfaces B - Biointerfaces, 2021, vol. 197, 111425. (2020: 5.268 - IF, Q1 - JCR, 0.939 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0927-7765. Dostupné na: https://doi.org/10.1016/j.colsurfb.2020.111425

Citácie:

1. [1.1] AZULAY, David N. - SPAEKER, Oliver - GHRAYEB, Mnar - WILSCH-BRAUNINGER, Michaela - SCOPPOLA, Ernesto - BURGHAMMER, Manfred - ZIZAK, Ivo - BERTINETTI, Luca - POLITI, Yael - CHAI, Liraz. Multiscale X-ray study of Bacillus subtilis biofilms reveals interlinked structural hierarchy and elemental heterogeneity. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2022, vol. 119, no. 4, pp. ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.2118107119, Registrované v: WOS

2. [1.1] GODERSKA, K. Properties of bee honeys and respective analytical methods. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUN 2022, vol. 15, no. 6, p. 1720-1735., Registrované v: WOS

ADCA28 BÖHMER, Miloslav** - SMOĽAK, D. - ŽENIŠOVÁ, K. - ČAPLOVÁ, Z. - PANGALLO, Domenico - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - CABICAROVÁ, T. - BUDIŠ, J. - ŠOLTÝS, K. - RUSŇÁKOVÁ, D. - KUCHTA, T. - SZEMEŠ, T. Comparison of microbial diversity during two different wine fermentation processes. In FEMS Microbiology Letters, 2020, vol. 367, no. fnaa150. (2019: 1.987 - IF, Q3 - JCR, 0.840 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1093/femsle/fnaa150

Citácie:

1. [1.1] HU, B.R. - ZHOU, M. - SU, J.H. - LIN, L. - XU, S.C. Study of Fungal Communities in Dry Red Wine Fermentation in Linfen Appellation, Shanxi. In FERMENTATION-BASEL. OCT 2022, vol. 8, no. 10., Registrované v: WOS

ADCA29 BORKO, Ľubomír - BAUROVÁ-HLINKOVÁ, Vladena - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - BECK, K - LAI, F.A. - ZAHRADNÍKOVÁ, Alexandra - ŠEVČÍK, Jozef. Structural insights into the human RyR2 N-terminal region involved in cardiac arrhythmias. In Acta Crystallographica D, 2014, vol. D70, p. 2897-2912. (2013: 7.232 - IF, Q1 - JCR, 20.386 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 2059-7983. Dostupné na: https://doi.org/10.1107/S1399004714020343

Citácie:

1. [1.1] HADIATULLAH, H. - HE, Z. - YUCHI, Z.G. Structural Insight Into Ryanodine Receptor Channelopathies. In FRONTIERS IN PHARMACOLOGY. MAY 23 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fphar.2022.897494, Registrované v: WOS

2. [1.1] MIOTTO, M.C. - WENINGER, G. - DRIDI, H. - YUAN, Q. - LIU, Y. - WRONSKA, A. - MELVILLE, Z. - SITTENFELD, L. - REIKEN, S. - MARKS, A.R. Structural analyses of human ryanodine receptor type 2 channels reveal the mechanisms for sudden cardiac death and treatment. In SCIENCE ADVANCES. ISSN 2375-2548, JUL 22 2022, vol. 8, no. 29. Dostupné na: https://doi.org/10.1126/sciadv.abo1272, Registrované v: WOS

3. [1.1] WOLL, K.A. - VAN PETEGEM, F. CALCIUM-RELEASE CHANNELS: STRUCTURE AND FUNCTION OF IP3 RECEPTORS AND RYANODINE RECEPTORS. In PHYSIOLOGICAL REVIEWS. ISSN 0031-9333, JAN 2022, vol. 102, no. 1, p. 209-268. Dostupné na: https://doi.org/10.1152/physrev.00033.2020, Registrované v: WOS

4. [1.1] ZHANG, J.Y. - SINGH, D.P. - KO, C.Y. - NIKOLAIENKO, R. - YUEN, S.M.W.K. -

SCHWARZ, J.A. - TREINEN, L.M. - TUNG, C.C. - ROZMAN, K. - SVENSSON, B. - ALDRICH, C.C. - ZIMA, A.V. - THOMAS, D.D. - BERS, D.M. - LAUNIKONIS, B.S. - VAN PETEGEM, F. - CORNEA, R.L. Cardiac ryanodine receptor N-terminal region biosensors identify novel inhibitors via FRET-based high-throughput screening. In JOURNAL OF BIOLOGICAL CHEMISTRY. JAN 2022, vol. 298, no. 1. Dostupné na: https://doi.org/10.1016/j.jbc.2021.101412, Registrované v: WOS

ADCA30 BREZNA, B. - KWEON, O. - STINGLEY, R.L. - FREEMAN, J.P. - KHAN, A.A. - POLEK, Bystrík - JONES, R.C. - CERNIGLIA, C.E. Molecular characterization of cytochrome P450 genes in the polycyclic aromatic hydrocarbon degrading Mycobacterium vanbaalenii PYR-1. In Applied Microbiology and Biotechnology, 2006, vol. 71, p. 522-532. (2005: 2.586 - IF, Q2 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-005-0190-8

Citácie:

1. [1.1] CHHETRI, G. - KIM, I. - SEO, T. Sphingopyxis lutea sp. nov., a novel moderately halotolerant bacterium isolated from pebbles. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, JUL 2022, vol. 204, no. 7. Dostupné na: https://doi.org/10.1007/s00203-022-03042-1, Registrované v: WOS

2. [1.1] GUNASEKERA, T.S. - BOWEN, L.L. - RADWAN, O. - STRIEBICH, R.C. - RUIZ, O.N. Genomic and transcriptomic characterization revealed key adaptive mechanisms of Marinobacter hydrocarbonoclasticus NI9 for proliferation and degradation of jet fuel. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, NOV 2022, vol. 175. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105502, Registrované v: WOS

3. [1.1] SU, Z.Y. - WANG, S.J. - YANG, S.C. - YIN, Y.J. - CAO, Y.K. - LI, G.Q. - MA, T. Genetic and Comparative Genome Analysis of Exiguobacterium aurantiacum SW-20, a Petroleum-Degrading Bacteria with Salt Tolerance and Heavy Metal-Tolerance Isolated from Produced Water of Changqing Oilfield, China. In MICROORGANISMS. JAN 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.3390/microorganisms10010066, Registrované v: WOS

4. [1.1] VANWIJNSBERGHE, S. - PEETERS, C. - CNOCKAERT, M. - DE CANCK, E. - VANDAMME, P. Paraburkholderia gardini sp. nov. and Paraburkholderia saeva sp. nov.: Novel aromatic compound degrading bacteria isolated from garden and forest soil samples. In SYSTEMATIC AND APPLIED MICROBIOLOGY. ISSN 0723-2020, MAY 2022, vol. 45, no. 3. Dostupné na: https://doi.org/10.1016/j.syapm.2022.126318, Registrované v: WOS

5. [1.1] ZHANG, Y.H. - DONG, J.D. - WANG, Y.S. - GU, J.D. - YIN, J.P. - AHMAD, M. - LING, J. Comparative genomics reveals the evidence of aromatic hydrocarbons degradation potential in genus Roseovarius in marine environment. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, JUL 2022, vol. 171. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105408, Registrované v: WOS

6. [1.1] ZHAO, L. - BRUGEL, S. - RAMASAMY, K.P. - ANDERSSON, A. Response of Coastal Shewanella and Duganella Bacteria to Planktonic and Terrestrial Food Substrates. In FRONTIERS IN MICROBIOLOGY. FEB 16 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fmicb.2021.726844, Registrované v: WOS

ADCA31 BREZNA, B. - KHAN, A.A. - CERNIGLIA, C.E. Molecular characterisation of dioxygenases from polycyclic aromatic hydrogen-degrading Mycobacterium spp. In FEMS Microbiology Letters, 2003, vol. 223, p. 177-183. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(03)00328-8

Citácie:

1. [1.1] VAN SPANNING, R.J.M. - GUAN, Q. - MELKONIAN, C. - GALLANT, J. - POLERECKY, L. - FLOT, J.F. - BRANDT, B.W. - BRASTER, M. - ESPINOZA, P.I. - AERTS, J.W. - MEIMA-FRANKE, M.M. - PIERSMA, S.R. - BUNDUC, C.M. - UMMELS, R. - PAIN, A. - FLEMING, E.J. - VAN DER WEL, N.N. - GHERMAN, V.D. - SARBU, S.M. - BODELIER, P.L.E. - BITTER, W. Methanotrophy by a Mycobacterium species that dominates a cave microbial ecosystem. In NATURE MICROBIOLOGY. ISSN 2058-5276, DEC 2022, vol. 7, no. 12, p. 2089-+. Dostupné na: https://doi.org/10.1038/s41564-022-01252-3, Registrované v: WOS

2. [1.1] VITA, M.M. - ITURBE-ESPINOZA, P. - BONTE, M. - BRANDT, B.W. - BRASTER, M. - BROWN, D.M. - VAN SPANNING, R.J.M. Oil Absorbent Polypropylene Particles Stimulate Biodegradation of Crude Oil by Microbial Consortia. In FRONTIERS IN MICROBIOLOGY. MAY 23 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.853285, Registrované v: WOS

ADCA32 BREŽNÁ, Barbara - ŽENIŠOVÁ, K. - CHOVANOVÁ, Katarína - CHEBENOVA, V. - KRAKOVÁ, Lucia - KUCHTA, T. - PANGALLO, Domenico. Evaluation of fungal and yeast diversity in Slovakian wine-related microbial communities. In Antonie van Leeuwenhoek, 2010, vol. 98, p. 519–529. (2009: 1.983 - IF, Q3 - JCR, 0.976 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-6072. Dostupné na: https://doi.org/10.1007/s10482-010-9469-6

Citácie:

1. [1.1] ZHAO, Wenjuan - ZHANG, Zhiming - GAO, Yuhong - LIU, Xiaozhen - DU, Chaojin - MA,

Fuxian - WANG, Sujie - SHI, Wanyuan - YANG, Yanping - DENG, Ruyou - ZHANG, Hanyao. Fungal dynamic changes in naturally fermented ';Kyoho'; grape juice. In ARCHIVES OF MICROBIOLOGY, 2022, vol. 204, no. 9, pp. ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-022-03166-4, Registrované v: WOS

ADCA33 BUČEKOVÁ, Marcela - JURICOVÁ, Valéria - MONTON, E. - MARTINOTTI, S. - RANZATO, E. - MAJTÁN, Juraj**. Microwave processing of honey negatively affects honey antibacterial activity by inactivation of bee-derived glucose oxidase and defensin-1. In Food chemistry, 2018, vol. 240, p. 1131-1136. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2017.08.054

Citácie:

1. [1.1] JARADAT, Z. - KHATAYBEH, B. - AL GHZAWI, A.M. - ABABNEH, Q. - AL NABUSLI, A. Molecular identification of major bacteria in honey and the effect of microwave treatment on its microbial quality and antibacterial activity. In AIMS AGRICULTURE AND FOOD. ISSN 2471-2086, 2022, vol. 7, no. 3, p. 594-613. Dostupné na: https://doi.org/10.3934/agrfood.2022037, Registrované v: WOS

2. [1.1] NIKHAT, S. - FAZIL, M. History, phytochemistry, experimental pharmacology and clinical uses of honey: A comprehensive review with special reference to Unani medicine. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, JAN 10 2022, vol. 282. Dostupné na: https://doi.org/10.1016/j.jep.2021.114614, Registrované v: WOS

3. [1.2] MOHAMMED, Mohammed Elimam Ahamed. Factors Affecting the Physicochemical Properties and Chemical Composition of Bee's Honey. In Food Reviews International, 2022-01-01, 38, 6, pp. 1330-1341. ISSN 87559129. Dostupné na: https://doi.org/10.1080/87559129.2020.1810701, Registrované v: SCOPUS

ADCA34 BUČEKOVÁ, Marcela - BURIOVÁ, Monika - PEKÁRIK, Ladislav - MAJTÁN, Viktor - MAJTÁN, Juraj**. Phytochemicals-mediated production of hydrogen peroxide is crucial for high antibacterial activity of honeydew honey. In Scientific Reports, 2018, vol. 8, art. no. 9061. (2017: 4.122 - IF, Q1 - JCR, 1.533 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-018-27449-3

Citácie:

1. [1.1] AWEEN, M.M. - HASSAN, Z. - MUHIALDIN, B.J. Purification and identification of novel antibacterial peptides isolated from Tualang honey. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, SEP 2022, vol. 57, no. 9, SI, p. 5632-5641. Dostupné na: https://doi.org/10.1111/ijfs.15490, Registrované v: WOS

2. [1.1] DENG, X.X. - GOULD, M. - ALI, M.A. A review of current advancements for wound healing: Biomaterial applications and medical devices. In JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS. ISSN 1552-4973, NOV 2022, vol. 110, no. 11, p. 2542-2573. Dostupné na: https://doi.org/10.1002/jbm.b.35086, Registrované v: WOS

3. [1.1] LIN, T.X. - HUANG, L. - CHENG, N.N. - WANG, Y.Z. - NING, Z. - HUANG, S.K. - WU, Y.H. - CHEN, T.B. - SU, S.K. - LIN, Y. The in vitro and in vivo antibacterial activities of uniflorous honey from a medicinal plant, Scrophularia ningpoensis Hemsl., and characterization of its chemical profile with UPLC-MS/MS. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, OCT 5 2022, vol. 296. Dostupné na: https://doi.org/10.1016/j.jep.2022.115499, Registrované v: WOS

4. [1.1] MASOURA, M. - MILNER, M.T. - OVERTON, T.W. - GKATZIONIS, K. - LUND, P.A. Use of Transposon Directed Insertion-Site Sequencing to Probe the Antibacterial Mechanism of a Model Honey on E. coli K-12. In FRONTIERS IN MICROBIOLOGY. JAN 17 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fmicb.2021.803307, Registrované v: WOS

5. [1.1] MATHARU, R.K. - AHMED, J. - SEO, J. - KARU, K. - GOLSHAN, M.A. - EDIRISINGHE, M. - CIRIC, L. Antibacterial Properties of Honey Nanocomposite Fibrous Meshes. In POLYMERS. DEC 2022, vol. 14, no. 23. Dostupné na: https://doi.org/10.3390/polym14235155, Registrované v: WOS

6. [1.1] MEZNARIC, S. - KARACONJI, I.B. - CRNKOVIC, G. - LESAR, A. - PAVLESIC, T. - VUCKOVIC, D. - GOBIN, I. Combined Inhibitory Effect of Fir (Abies alba Mill.) Honeydew Honey and Probiotic Bacteria Lactiplantibacillus plantarum on the Growth of Salmonella enterica Serotype Typhimurium. In ANTIBIOTICS-BASEL. ISSN 2079-6382, FEB 2022, vol. 11, no. 2. Dostupné na: https://doi.org/10.3390/antibiotics11020145, Registrované v: WOS

7. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS

8. [1.1] NGANGA, J.B. - JUNG, Y.J. - SI, Y. - KIM, M. - KO, H. - HWANG, G.T. - LEE, H.J. - LEE, H.I. - LEE, J.K. Photoinduced radical polymerization by methyl fluoresceins under visible

light and the application to signal amplification of hydrogen peroxide. In DYES AND PIGMENTS. ISSN 0143-7208, APR 2022, vol. 200. Dostupné na: https://doi.org/10.1016/j.dyepig.2022.110163, Registrované v: WOS
9. [1.1] ROMARIO-SILVA, D. - ALENCAR, S.M. - BUENO-SILVA, B. - SARDI, J.D.O. - FRANCHIN, M. - DE CARVALHO, R.D.P. - FERREIRA, T.E.D.A. - ROSALEN, P.L. Antimicrobial Activity of Honey against Oral Microorganisms: Current Reality, Methodological Challenges and Solutions. In MICROORGANISMS. DEC 2022, vol. 10, no. 12. Dostupné na: https://doi.org/10.3390/microorganisms10122325, Registrované v: WOS
10. [1.1] ROYO, V.D. - DE OLIVEIRA, D.A. - VELOSO, P.H.F. - SACRAMENTO, V.D. - OLIMPIO, E.L.A. - DE SOUZA, L.F. - PIRES, N.D. - MARTINS, C.H.G. - SANTIAGO, M.B. - ALVES, T.M.D. - ACACIO, T.M. - DE MELO, A.F. - BRANDAO, M.M. - MENEZES, E.V. Physicochemical Profile, Antioxidant and Antimicrobial Activities of Honeys Produced in Minas Gerais (Brazil). In ANTIBIOTICS-BASEL. ISSN 2079-6382, OCT 2022, vol. 11, no. 10. Dostupné na: https://doi.org/10.3390/antibiotics11101429, Registrované v: WOS
11. [1.1] STAVROPOULOU, E. - IERONYMAKI, E. - DIMITROULIA, E. - CONSTANTINIDIS, T.C. - VRIONI, G. - TSATSANIS, C. - TSAKRIS, A. Anti-Inflammatory and Antibacterial Effects and Mode of Action of Greek Arbutus, Chestnut, and Fir Honey in Mouse Models of Inflammation and Sepsis. In MICROORGANISMS. DEC 2022, vol. 10, no. 12. Dostupné na: https://doi.org/10.3390/microorganisms10122374, Registrované v: WOS
12. [1.1] ZULKIFLI, M.F. - RADZI, M.N.F.M. - SALUDES, J.P. - DALISAY, D.S. - ISMAIL, W.I.W. Potential of Natural Honey in Controlling Obesity and its Related Complications. In JOURNAL OF EVIDENCE-BASED INTEGRATIVE MEDICINE. ISSN 2515-690X, AUG 2022, vol. 27. Dostupné na: https://doi.org/10.1177/2515690X221103304, Registrované v: WOS
13. [1.2] AFIFA KHATUN, Mst - RAZZAK, Md - HOSSAIN, Md Afzal - HOSSAIN, Arzina - ISLAM, Mahfuza - SHAHJALAL, Md - KHAN, Ruhul A. - HUQUE, Roksana. Gamma radiation processing of honey of Mustard, Black seed and Lychee flower: Measurement of antioxidant, antimicrobial, and Fourier transform infrared (FT-IR) spectra. In Measurement: Food, 2022-06-01, 6, pp. Dostupné na: https://doi.org/10.1016/j.meafoo.2022.100026, Registrované v: SCOPUS
14. [1.2] BOUDIAR, Ines - BOUACHA, Mabrouka - BESNACI, Sana - KHALLEF, Massaouda - ABDI, Akila. Evaluation of the antibacterial and antimutagenic effects of multiflora honeys produced by the Apis mellifera bee and their correlation with polyphenolic content, flavonoids and color. In Journal of Entomological Research, 2022-09-01, 46, 3, pp. 607-614. ISSN 03789519. Dostupné na: https://doi.org/10.5958/0974-4576.2022.00105.0, Registrované v: SCOPUS

ADCA35 BUČEKOVÁ, Marcela - JARDEKOVÁ, Lucia - JURICOVÁ, Valéria - BUGÁROVÁ, Veronika - DI MARCO, Gabriele - GISMONDI, Angelo - LEONARDI, Donatella - FARKAŠOVSKÁ, Jarmila - GODOČÍKOVÁ, Jana - LAHO, Maroš - KLAUDINY, Jaroslav - MAJTÁN, Viktor - CANINI, Antonella - MAJTÁN, Juraj**. Antibacterial activity of different blossom honeys: New findings. In Molecules, 2019, vol. 24, no. 8, no. 1573. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24081573

Citácie:
1. [1.1] AL-SHEHRI, B.M. - MASHAT, R.M. - ALSHAREEF, R.M.H. - ALAERJANI, W.M.A. - KHAN, K.A. - GHRAMH, H.A. - IBRAHIM, E.H. - BAJABER, M.A. - ZARBAH, A.A. - MOHAMMED, M.E.A. Status of artificial sweeteners, glucose oxidase and some quality parameters of honey samples from the Asir region, Saudi Arabia. In JOURNAL OF KING SAUD UNIVERSITY SCIENCE. ISSN 1018-3647, AUG 2022, vol. 34, no. 6., Registrované v: WOS
2. [1.1] ALSHAREEF, R.M.H. - AL-FARHAN, B.S. - MOHAMMED, M.E.A. Glucose Oxidase and Catalase Activities in Honey Samples from the Southwestern Region of Saudi Arabia. In APPLIED SCIENCES-BASEL. AUG 2022, vol. 12, no. 15., Registrované v: WOS
3. [1.1] BEN AMOR, S. - MEKIOUS, S. - BENFEKIH, L.A. - ABDELLATTIF, M.H. - BOUSSEBAA, W. - ALMALKI, F.A. - BEN HADDA, T. - KAWSAR, S.M.A. Phytochemical Characterization and Bioactivity of Different Honey Samples Collected in the Pre-Saharan Region in Algeria. In LIFE-BASEL. JUL 2022, vol. 12, no. 7., Registrované v: WOS
4. [1.1] FEKNOUS, N. - BOUMENDJEL, M. Natural bioactive compounds of honey and their antimicrobial activity. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2022, vol. 40, no. 3, p. 163-178., Registrované v: WOS
5. [1.1] GODERSKA, K. Properties of bee honeys and respective analytical methods. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUN 2022, vol. 15, no. 6, p. 1720-1735., Registrované v: WOS
6. [1.1] HOSSAIN, M.L. - HAMMER, K. - LIM, L.Y. - HETTIARACHCHI, D. - LOCHER, C. Optimisation of an agar overlay assay for the assessment of the antimicrobial activity of topically applied semi-solid antiseptic products including honey-based formulations. In JOURNAL OF

MICROBIOLOGICAL METHODS. ISSN 0167-7012, NOV 2022, vol. 202., Registrované v: WOS
7. [1.1] HOSSAIN, M.L. - LIM, L.Y. - HAMMER, K. - HETTIARACHCHI, D. - LOCHER, C. A Review of Commonly Used Methodologies for Assessing the Antibacterial Activity of Honey and Honey Products. In ANTIBIOTICS-BASEL. ISSN 2079-6382, JUL 2022, vol. 11, no. 7., Registrované v: WOS
8. [1.1] HULEA, A. - OBISTIOIU, D. - COCAN, I. - ALEXA, E. - NEGREA, M. - NEACSU, A.G. - HULEA, C. - PASCU, C. - COSTINAR, L. - IANCU, I. - TIRZIU, E. - HERMAN, V. Diversity of Monofloral Honey Based on the Antimicrobial and Antioxidant Potential. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAY 2022, vol. 11, no. 5., Registrované v: WOS
9. [1.1] LIN, T.X. - HUANG, L. - CHENG, N.N. - WANG, Y.Z. - NING, Z. - HUANG, S.K. - WU, Y.H. - CHEN, T.B. - SU, S.K. - LIN, Y. The in vitro and in vivo antibacterial activities of uniflorous honey from a medicinal plant, Scrophularia ningpoensis Hemsl., and characterization of its chemical profile with UPLC-MS/MS. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, OCT 5 2022, vol. 296., Registrované v: WOS
10. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8., Registrované v: WOS
11. [1.1] O';FARRELL, C. - HALL, T.J. - GROVER, L.M. - COX, S.C. Formulation of an antibacterial topical cream containing bioengineered honey that generates reactive oxygen species. In BIOMATERIALS ADVANCES. FEB 2022, vol. 133., Registrované v: WOS
12. [1.1] PATRUICA, S. - ALEXA, E. - OBISTIOIU, D. - COCAN, I. - RADULOV, I. - BERBECEA, A. - LAZAR, R.N. - SIMIZ, E. - VICAR, N.M. - HULEA, A. - MORARU, D. Chemical Composition, Antioxidant and Antimicrobial Activity of Some Types of Honey from Banat Region, Romania. In MOLECULES. JUL 2022, vol. 27, no. 13., Registrované v: WOS
13. [1.1] ROMARIO-SILVA, D. - ALENCAR, S.M. - BUENO-SILVA, B. - SARDI, J.D.O. - FRANCHIN, M. - DE CARVALHO, R.D.P. - FERREIRA, T.E.D.A. - ROSALEN, P.L. Antimicrobial Activity of Honey against Oral Microorganisms: Current Reality, Methodological Challenges and Solutions. In MICROORGANISMS. DEC 2022, vol. 10, no. 12., Registrované v: WOS
14. [1.1] SAKAC, M. - JOVANOV, P. - MARIC, A. - CETOJEVIC-SIMIN, D. - NOVAKOVIC, A. - PLAVSIC, D. - SKROBOT, D. - KOVAC, R. Antioxidative, Antibacterial and Antiproliferative Properties of Honey Types from the Western Balkans. In ANTIOXIDANTS. JUN 2022, vol. 11, no. 6., Registrované v: WOS
15. [1.1] STAVROPOULOU, E. - VOIDAROU, C. - ROZOS, G. - VAOU, N. - BARDANIS, M. - KONSTANTINIDIS, T. - VRIONI, G. - TSAKRIS, A. Antimicrobial Evaluation of Various Honey Types against Carbapenemase-Producing Gram-Negative Clinical Isolates. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAR 2022, vol. 11, no. 3., Registrované v: WOS
16. [1.1] TESFAYE, O. - MULETA, D. - DESALEGN, A. In vitro antimicrobial properties of apis mellifera L. and Meliponulla beccarii L. honeys from Kellem and West Wollega Zones, Western Ethiopia. In INTERNATIONAL JOURNAL OF FOOD PROPERTIES. ISSN 1094-2912, DEC 31 2022, vol. 25, no. 1, p. 65-75., Registrované v: WOS
17. [1.1] WU, J. - HAN, B.J. - ZHAO, S. - ZHONG, Y.H. - HAN, W.S. - GAO, J.L. - WANG, S.J. Bioactive characterization of multifloral honeys from Apis cerana cerana, Apis dorsata, and Lepidotrigona flavibasis. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, NOV 2022, vol. 161., Registrované v: WOS
18. [1.1] ZHANG, L.Y. - YIN, Y. - SIMONS, A. - FRANCISCO, N.M. - WEN, F.Q. - PATIL, S. Use of Honey in the Management of Chemotherapy-Associated Oral Mucositis in Paediatric Patients. In CANCER MANAGEMENT AND RESEARCH. ISSN 1179-1322, 2022, vol. 14, p. 2773-2783., Registrované v: WOS
19. [1.1] ZHOU, M.Y. - HUO, J.H. - WANG, C.R. - WANG, W.M. UPLC/Q-TOF MS Screening and Identification of Antibacterial Compounds in Forsythia suspensa (Thunb.) Vahl Leaves. In FRONTIERS IN PHARMACOLOGY. JAN 28 2022, vol. 12., Registrované v: WOS
20. [1.2] COUTIÑO-HERNÁNDEZ, Diana - SÁNCHEZ-TAPIA, Mónica - LEAL-VEGA, Francisco - BOBADILLA DEL VALLE, Miriam - LEDEZMA, Héctor - CERVANTES, Ricardo - PEDRAZA-CHAVERRI, José - GRANADOS-PORTILLO, Omar - DÍAZ, Daniel - ANTUNES-RICARDO, Marilena - GUTIÉRREZ-URIBE, Janet - MAYA, Otoniel - OLIN-SANDOVAL, Viridiana - TOVAR, Armando R. - TORRES, Nimbe. Modulation of gut microbiota by Mantequilla and Melipona honeys decrease low-grade inflammation caused by high fructose corn syrup or sucrose in rats. In Food Research International, 2022-01-01, 151, pp. ISSN 09639969. Dostupné na: https://doi.org/10.1016/j.foodres.2021.110856, Registrované v: SCOPUS
21. [1.2] KHATAMI, Seyyed Hossein - VAKILI, Omid - AHMADI, Nahid - SOLTANI FARD, Elahe - MOUSAVI, Pegah - KHALVATI, Bahman - MALEKSABET, Amir - SAVARDASHTAKI, Amir - TAHERI-ANGANEH, Mortaza - MOVAHEDPOUR, Ahmad. Glucose oxidase: Applications,

sources, and recombinant production. In Biotechnology and Applied Biochemistry, 2022-06-01, 69, 3, pp. 939-950. ISSN 08854513. Dostupné na: https://doi.org/10.1002/bab.2165, Registrované v: SCOPUS

ADCA36 BUČEKOVÁ, Marcela - SOJKA, Martin - VALACHOVÁ, Ivana - MARTINOTTI, S. - RANZATO, E. - SZEP, Z. - MAJTAN, V. - KLAUDINY, Jaroslav - MAJTÁN, Juraj. Bee-derived antibacterial peptide, defensin-1, promotes wound re-epithelialisation in vitro and in vivo. In Scientific Reports, 2017, vol. 7, no. 1, art. no. 7340. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-07494-0

Citácie:

1. [1.1] DUMITRU, C.D. - NEACSU, I.A. - GRUMEZESCU, A.M. - ANDRONESCU, E. Bee-Derived Products: Chemical Composition and Applications in Skin Tissue Engineering. In PHARMACEUTICS. APR 2022, vol. 14, no. 4. Dostupné na: https://doi.org/10.3390/pharmaceutics14040750, Registrované v: WOS

2. [1.1] ERBAN, T. - SHCHERBACHENKO, E. - TALACKO, P. - HARANT, K. Honey proteome of the bumblebee Bombus terrestris: similarities, differences, and exceptionality compared to honey bee honey as signatures of eusociality evolution. In APIDOLOGIE. ISSN 0044-8435, MAR 2022, vol. 53, no. 1. Dostupné na: https://doi.org/10.1007/s13592-022-00928-3, Registrované v: WOS

3. [1.1] HEWETT, S.R. - CRABTREY, S.D. - DODSON, E.E. - RIETH, C.A. - TARKKA, R.M. - NAYLOR, K. Both Manuka and Non-Manuka Honey Types Inhibit Antibiotic Resistant Wound-Infecting Bacteria. In ANTIBIOTICS-BASEL. ISSN 2079-6382, AUG 2022, vol. 11, no. 8. Dostupné na: https://doi.org/10.3390/antibiotics11081132, Registrované v: WOS

4. [1.1] HU, X.H. - LI, M. - YANG, L. - CHEN, H. - CHEN, Z. - DU, W.L. - SHEN, Y.M. Treatment of Pasteurella multocida infection with dressings containing honey and antibacterials: a case report. In JOURNAL OF WOUND CARE. ISSN 0969-0700, MAR 2022, vol. 31, no. 3, p. 230-234. Dostupné na: https://doi.org/10.12968/jowc.2022.31.3.230, Registrované v: WOS

5. [1.1] MENG, Z.S. - LI, Z. - GUO, S.L. - WU, D.F. - WEI, R. - LIU, J.C. - HU, L.Z. - SUI, L. MED1 Ablation Promotes Oral Mucosal Wound Healing via JNK Signaling Pathway. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 21. Dostupné na: https://doi.org/10.3390/ijms232113414, Registrované v: WOS

6. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS

7. [1.1] NASSERI, S. - SHARIFI, M. Therapeutic Potential of Antimicrobial Peptides for Wound Healing. In INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. ISSN 1573-3149, JAN 2022, vol. 28, no. 1. Dostupné na: https://doi.org/10.1007/s10989-021-10350-5, Registrované v: WOS

8. [1.1] O';FARRELL, C. - HALL, T.J. - GROVER, L.M. - COX, S.C. Formulation of an antibacterial topical cream containing bioengineered honey that generates reactive oxygen species. In BIOMATERIALS ADVANCES. FEB 2022, vol. 133. Dostupné na: https://doi.org/10.1016/j.msec.2022.112664, Registrované v: WOS

9. [1.1] SPANIDI, E. - ATHANASOPOULOU, S. - LIAKOPOULOU, A. - CHAIDOU, A. - HATZIANTONIOU, S. - GARDIKIS, K. Royal Jelly Components Encapsulation in a Controlled Release System-Skin Functionality, and Biochemical Activity for Skin Applications. In PHARMACEUTICALS. AUG 2022, vol. 15, no. 8. Dostupné na: https://doi.org/10.3390/ph15080907, Registrované v: WOS

10. [1.1] WANG, B. - WEI, P.W. - YAO, Y. - SONG, C.R. - WANG, X. - YANG, Y.X. - LONG, Y.H. - YANG, S.W. - HU, Y. - GAI, Z.C. - WU, J.W. - LIU, H.M. Functional and expression characteristics identification of Phormicins, novel AMPs from Musca domestica with anti-MRSA biofilm activity, in response to different stimuli. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUN 1 2022, vol. 209, A, p. 299-314. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2022.03.204, Registrované v: WOS

11. [1.1] WU, F. - GONG, Y. - SONG, L.L. - LI, H.Y. - ZHANG, X.M. - LI, H.Y. - ZHANG, S.C. In vitro and in vivo wound healing-promoting activities of phosvitin-derived peptide Pt5-1c. In EUROPEAN JOURNAL OF PHARMACOLOGY. ISSN 0014-2999, APR 5 2022, vol. 920. Dostupné na: https://doi.org/10.1016/j.ejphar.2022.174833, Registrované v: WOS

12. [1.2] ANAND, Pooja. Antibacterial activity of Honey and Apple Cider Vinegar (ACV) on Gram-negative multi-drug resistant microorganisms. In ACM International Conference

Proceeding Series, 2022-11-10, pp. 221-229. Dostupné na: https://doi.org/10.1145/3574198.3574233, Registrované v: SCOPUS
13. [1.2] KUREK-GÓRECKA, Anna - OLCZYK, Paweł. Bee products and skin therapy. In Bee Products and Their Applications in the Food and Pharmaceutical Industries, 2022-01-01, pp. 25-62. Dostupné na: https://doi.org/10.1016/B978-0-323-85400-9.00016-2, Registrované v: SCOPUS

ADCA37 BUČEKOVÁ, Marcela - MAJTÁN, Juraj. The MRJP1 honey glycoprotein does not contribute to the overall antibacterial activity of natural honey. In European Food Research and Technology, 2016, vol. 242, p. 625–629. (2015: 1.433 - IF, Q3 - JCR, 0.728 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-016-2665-5 (VEGA 2/0007/14 : Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán.)

Citácie:
1. [1.1] MURESAN, C.I. - DEZMIREAN, D.S. - MARC, B.D. - SUHAROSCHI, R. - POP, O.L. - BUTTSTEDT, A. Biological properties and activities of major royal jelly proteins and their derived peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, NOV 2022, vol. 98. Dostupné na: https://doi.org/10.1016/j.jff.2022.105286, Registrované v: WOS
2. [1.1] RAMóN-SIERRA, J.M. - VILLANUEVA, M.A. - YAM-PUC, A. - RODRíGUEZ-MENDIOLA, M. - ARIAS-CASTRO, C. - ORTIZ-VáZQUEZ, E. Antimicrobial and antioxidant activity of proteins isolated from Melipona beecheii honey. In FOOD CHEMISTRY-X. ISSN 2590-1575, MAR 30 2022, vol. 13. Dostupné na: https://doi.org/10.1016/j.fochx.2021.100177, Registrované v: WOS
3. [1.2] SACHDEV, Swati - KUMAR, Anil - ANSARI, Mohammad Israil. Health benefit, traditional, and modern uses of natural honey. In Non-Timber Forest Products: Food, Healthcare and Industrial Applications, 2021-07-30, pp. 281-299. Dostupné na: https://doi.org/10.1007/978-3-030-73077-2_12, Registrované v: SCOPUS
4. [1.2] SURAN, Jelena. Beehives as a natural source of novel antimicrobials. In Promising Antimicrobials from Natural Products, 2022-02-03, pp. 373-395. Dostupné na: https://doi.org/10.1007/978-3-030-83504-0_15, Registrované v: SCOPUS

ADCA38 BUČEKOVÁ, Marcela - JURICOVÁ, Valéria - DI MARCO, G. - GISMONDI, A. - LEONARDI, D. - CANINI, A. - MAJTÁN, Juraj**. Effect of thermal liquefying of crystallised honeys on their antibacterial activities. In Food chemistry, 2018, vol. 269, p. 335-341. (2017: 4.946 - IF, Q1 - JCR, 1.793 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2018.07.012

Citácie:
1. [1.1] AZCARATE, S.M. - DAZAT, R.E. - CAMINA, J.M. - SILVA, M.F. - GOMEZ, F.J.V. NADES-modified voltammetric sensors and information fusion for detection of honey heat alteration. In FOOD CONTROL. ISSN 0956-7135, OCT 2022, vol. 140. Dostupné na: https://doi.org/10.1016/j.foodcont.2022.109144, Registrované v: WOS
2. [1.1] GODERSKA, K. Properties of bee honeys and respective analytical methods. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUN 2022, vol. 15, no. 6, p. 1720-1735. Dostupné na: https://doi.org/10.1007/s12161-022-02243-0, Registrované v: WOS
3. [1.1] ISLAM, K. - SOSTARIC, T. - LIM, L.Y. - HAMMER, K. - LOCHER, C. A Comprehensive HPTLC-Based Analysis of the Impacts of Temperature on the Chemical Properties and Antioxidant Activity of Honey. In MOLECULES. DEC 2022, vol. 27, no. 23. Dostupné na: https://doi.org/10.3390/molecules27238491, Registrované v: WOS

ADCA39 BUČEKOVÁ, Marcela* - BUGÁROVÁ, Veronika* - GODOČÍKOVÁ, Jana - MAJTÁN, Juraj**. Demanding new honey qualitative standard based on antibacterial activity. In Foods, 2020, vol. 9, no. 1263. (2019: 4.092 - IF, Q1 - JCR, 0.661 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2304-8158. Dostupné na: https://doi.org/10.3390/foods9091263

Citácie:
1. [1.1] ESCUREDO, O. - SEIJO, M.C. Authenticity of Honey: Characterization, Bioactivities and Sensorial Properties. In FOODS. MAY 2022, vol. 11, no. 9., Registrované v: WOS
2. [1.1] FARKAS, A. - BALAZS, V.L. - KOSZEGI, T. - CSEPREGI, R. - KEREKES, E. - HORVATH, G. - SZABO, P. - GAAL, K. - KOCSIS, M. Antibacterial and Biofilm Degradation Effects of Hungarian Honeys Linked With Botanical Origin, Antioxidant Capacity and Mineral Content. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JUL 13 2022, vol. 9., Registrované v: WOS
3. [1.1] SEDIK, P. - POCOL, C.B. - PREDANOCYOVA, K. CONSUMER BEHAVIOUR AND SENSORY TESTING OF HONEY BY ROMANIAN UNIVERSITY STUDENTS. In SCIENTIFIC PAPERS-SERIES MANAGEMENT ECONOMIC ENGINEERING IN AGRICULTURE AND RURAL DEVELOPMENT. ISSN 2284-7995, 2022, vol. 22, no. 2, p. 631-638., Registrované v: WOS

4. [1.1] STAVROPOULOU, E. - VOIDAROU, C. - ROZOS, G. - VAOU, N. - BARDANIS, M. - KONSTANTINIDIS, T. - VRIONI, G. - TSAKRIS, A. Antimicrobial Evaluation of Various Honey Types against Carbapenemase-Producing Gram-Negative Clinical Isolates. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAR 2022, vol. 11, no. 3., Registrované v: WOS

ADCA40 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - SCLOCCHI, M.C. - BICCHIERI, M. - COLAIZZI, P. - PINZARI, F. - PANGALLO, Domenico. Co-occurrence of bacteria and fungi and spatial partitioning during photographic materials biodeterioration. In Polymer Degradation and Stability, 2014, vol. 108, p. 1–11. (2013: 2.633 - IF, Q2 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0141-3910. Dostupné na: https://doi.org/10.1016/j.polymdegradstab.2014.05.025

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.1] ELDEEB, H.M.A. - ALI, M.F. - MANSOUR, M.M.A. - AHMED, M.A.A. - SALEM, M.Z.M. Monitoring the effects of fungi isolated from archival document on model albumen silver prints. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, AUG 2022, vol. 169. Dostupné na: https://doi.org/10.1016/j.micpath.2022.105632, Registrované v: WOS

3. [1.1] LI, X. - FENG, C.L. - LEI, M. - LUO, K. - WANG, L.Y. - LIU, R.G. - LI, Y.Y. - HU, Y.N. Bioremediation of organic/heavy metal contaminants by mixed cultures of microorganisms: A review. In OPEN CHEMISTRY. ISSN 2391-5420, AUG 30 2022, vol. 20, no. 1, p. 793-807. Dostupné na: https://doi.org/10.1515/chem-2022-0198, Registrované v: WOS

4. [1.1] OSMAN, M.E. - ISMAEL, S. - CILIBERTO, E. - STEFANI, S. - ELSABA, Y.M. EVALUATION OF MICROBIAL DETERIORATION OF SILVER GELATIN PHOTOGRAPHS STORED IN AN OLD PHOTOGRAPHIC ARCHIVE. In INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE. ISSN 2067-533X, APR-JUN 2022, vol. 13, no. 2, p. 527-540., Registrované v: WOS

5. [1.1] PURKRTOVA, S. - SAVICKA, D. - KADAVA, J. - SYKOROVA, H. - KOVACOVA, N. - KALISOVA, D. - NESPOROVA, T. - NOVAKOVA, M. - BENETKOVA, B.M. - KOUKALOVA, L. - BORYSKOVA, S. - HNULIKOVA, B. - DUROVIC, M. - DEMNEROVA, K. Microbial Contamination of Photographic and Cinematographic Materials in Archival Funds in the Czech Republic. In MICROORGANISMS. JAN 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.3390/microorganisms10010155, Registrované v: WOS

ADCA41 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - CHOVANOVÁ, Katarína - KRAKOVÁ, Lucia - FERIANC, Peter - PANGALLO, Domenico. A simple strategy for investigating the diversity and hydrocarbon degradation abilities of cultivable bacteria from contaminated soil. In World journal of microbiology and biotechnology, 2013, vol. 29, p. 1085-1098. (2012: 1.262 - IF, Q3 - JCR, 0.585 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-013-1277-5

Citácie:

1. [1.1] BOUCHALI, R. - MANDON, C. - MARTI, R. - MICHALON, J. - AIGLE, A. - MARJOLET, L. - VAREILLES, S. - KOUYI, G.L. - POLOMé, P. - TOUSSAINT, J.Y. - COURNOYER, B. Bacterial assemblages of urban microbiomes mobilized by runoff waters match land use typologies and harbor core species involved in pollutant degradation and opportunistic human infections. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, APR 1 2022, vol. 815. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.152662, Registrované v: WOS

2. [1.1] KUZINA, E. - MUKHAMATDYAROVA, S. - SHARIPOVA, Y. - MAKHMUTOV, A. - BELAN, L. - KORSHUNOVA, T. Influence of Bacteria of the Genus Pseudomonas on Leguminous Plants and Their Joint Application for Bioremediation of Oil Contaminated Soils. In PLANTS-BASEL. DEC 2022, vol. 11, no. 23. Dostupné na: https://doi.org/10.3390/plants11233396, Registrované v: WOS

3. [1.2] ULLAH, S. - ALI, N. - DAWAR, F. U. - NUGHMAN, M. - RAUF, M. - KHATTAK, M. N.K. - KIM, B. C. Biodegradation of petroleum by bacteria isolated from fishes of indian ocean. In Brazilian Journal of Biology, 2022-01-01, 82, pp. ISSN 15196984. Dostupné na: https://doi.org/10.1590/1519-6984.244703, Registrované v: SCOPUS

ADCA42 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - ŽENIŠOVÁ, K. - KRAKOVÁ, Lucia - PIKNOVA, L. - KUCHTA, T. - PANGALLO, Domenico**. Novel insights into microbial community dynamics during the fermentation of Central European ice wine. In International journal of food microbiology, 2018, vol. 266, p. 42-51. (2017: 3.451 - IF, Q1 - JCR, 1.366 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2017.11.010

Citácie:

1. [1.1] REGECOVá, I. - SEMJON, B. - JEVINOVá, P. - OCENáS, P. - VYROSTKOVá, J. - SULáKOVá, L. - NOSKOVá, E. - MARCINCáK, S. - BARTKOVSKY, M. Detection of Microbiota during the Fermentation Process of Wine in Relation to the Biogenic Amine Content. In FOODS. OCT 2022, vol. 11, no. 19. Dostupné na: https://doi.org/10.3390/foods11193061, Registrované v: WOS
2. [1.1] ZHANG, Z. - ZHANG, Q.C. - YANG, H. - SUN, L.J. - XIA, H.C. - SUN, W.J. - WANG, Z. - ZHANG, J.X. Bacterial Communities Related to Aroma Formation during Spontaneous Fermentation of ';Cabernet Sauvignon'; Wine in Ningxia, China. In FOODS. SEP 2022, vol. 11, no. 18. Dostupné na: https://doi.org/10.3390/foods11182775, Registrované v: WOS
3. [1.2] PANDO BEDRIÑANA, Rosa - PICINELLI LOBO, Anna - RODRÍGUEZ MADRERA, Roberto - SUÁREZ VALLES, Belén. New ciders made by an exhaustion method: An option to val-orise subproducts from the making of ice ciders. In Beverages, 2021-12-01, 7, 4, pp. Dostupné na: https://doi.org/10.3390/beverages7040075, Registrované v: SCOPUS
4. [1.2] TIAN, Huaixiang - XIONG, Juanjuan - YU, Haiyan - CHEN, Chen - LOU, Xinman. Biotransformation and Biological Regulation Mechanism of Aroma Compounds in Fruit Wine: A Review. In Shipin Kexue/Food Science, 2022-10-15, 43, 19, pp. 36-47. ISSN 10026630. Dostupné na: https://doi.org/10.7506/spkx1002-6630-20220412-131, Registrované v: SCOPUS

ADCA43 BUČKOVÁ, Mária - GODOČÍKOVÁ, Jana - POLEK, Bystrík. Responses in the mycelial growth of Aspergillus niger isolates to arsenic contaminated environments and their resistance to exogenic metal stress. In Journal of Basic Microbiology : international journal, 2007, vol. 47, no. 4, pp. 295-300. (2006: 0.722 - IF, Q4 - JCR, 0.364 - SJR, Q2 - SJR). ISSN 0233-111X. Dostupné na: https://doi.org/10.1002/jobm.200610299

Citácie:

1. [1.1] KUMAR, Vinay - SINGH, Garima - DWIVEDI, Shiv Kumar. Arsenic and Nickel Stress Response, Their Bioremediation Potential and Mechanism of Trichoderma lixii Isolated from Electroplating Wastewater. In GEOMICROBIOLOGY JOURNAL, 2022, vol. 39, no. 3-5, pp. 186-198. ISSN 0149-0451. Dostupné na: https://doi.org/10.1080/01490451.2021.1956648, Registrované v: WOS

ADCA44 BUCHWALD, G. - HOSTINOVÁ, Eva - RUDOLPH, M.G. - KRAEMER, A. - SICKMANN, A. - MEIER, S. - SCHEFFZEK, K. - WITTINGHOFER, A. Conformational switch and role of phosphorylation in PAK activation. In Molecular and Cellular Biology, 2001, vol. 21, p. 5179-5189. ISSN 0270-7306. Dostupné na: https://doi.org/10.1128/MCB.21.15.5179-5189.2001

Citácie:

1. [1.1] LI, X.D. - LI, F. p21-Activated Kinase: Role in Gastrointestinal Cancer and Beyond. In CANCERS. OCT 2022, vol. 14, no. 19., Registrované v: WOS
2. [1.1] RAJENDRAN, S. - SWAROOP, S.S. - ROY, J. - INEMAI, E. - MURUGAN, S. - RAYALA, S.K. - VENKATRAMAN, G. p21 activated kinase-1 and tamoxifen - A deadly nexus impacting breast cancer outcomes. In BIOCHIMICA ET BIOPHYSICA ACTA-REVIEWS ON CANCER. ISSN 0304-419X, JAN 2022, vol. 1877, no. 1., Registrované v: WOS
3. [1.1] SECHI, S. - PIERGENTILI, R. - GIANSANTI, M.G. Minor Kinases with Major Roles in Cytokinesis Regulation. In CELLS. NOV 2022, vol. 11, no. 22., Registrované v: WOS
4. [1.1] UMARAO, P. - RATH, P.P. - GOURINATH, S. Cdc42/Rac Interactive Binding Containing Effector Proteins in Unicellular Protozoans With Reference to Human Host: Locks of the Rho Signaling. In FRONTIERS IN GENETICS. FEB 2 2022, vol. 13., Registrované v: WOS
5. [1.1] YU, X.B. - HUANG, C.W. - LIU, J.Y. - SHI, X.Y. - LI, X.D. The significance of PAK4 in signaling and clinicopathology: A review. In OPEN LIFE SCIENCES. ISSN 2391-5412, JUN 20 2022, vol. 17, no. 1, p. 586-598., Registrované v: WOS

ADCA45 BUJDÁKOVÁ, H. - PAULOVIČOVÁ, Ema - BORECKÁ-MELKUSOVÁ, S. - GAŠPERÍK, Juraj - KUCHÁRIKOVÁ, S. - KOLECKÁ, A. - LELL, C. - JENSEN, D.B. - WURZNER, R. - CHORVÁT, D. Jr. - PICHOVÁ, I. Antibody response to the 45 kDa Candida albicans antigen in an animal model and potential role of the antigen in adherence. In Journal of Medical Microbiology, 2008, vol. 57, p. 1466-1472. (2007: 2.091 - IF, Q3 - JCR, 1.078 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0022-2615. Dostupné na: https://doi.org/10.1099/jmm.0.2008/001479-0

Citácie:

1. [1.1] CHANDLEY, Pankaj - SUBBA, Priyanka - ROHATGI, Soma. A Soluble Tetrazolium-Based Reduction Assay to Evaluate the Effect of Antibodies on Candida tropicalis Biofilms. In JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, 2022, vol., no. 187, pp. ISSN 1940-087X. Dostupné na: https://doi.org/10.3791/64425, Registrované v: WOS
2. [1.1] SUGIMOTO, Naomi - YAMAGISHI, Yuka - MIKAMO, Hiroshige. Effect of Empagliflozin on Candida glabrata Adhesion to Vaginal Epithelial Cells. In MEDICAL MYCOLOGY JOURNAL, 2022, vol. 63, no. 2, pp. 43-47. ISSN 2185-6486., Registrované v: WOS

ADCA46 CIPAKOVA, I. - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - VELEBNY, V. High-level expression and purification of a recombinant hBD-1 fused to LMM protein in Escherichia coli. In Protein Expression

and Purification, 2004, vol. 37, p. 207-212. (2003: 1.470 - IF). ISSN 1046-5928. Dostupné na: https://doi.org/10.1016/j.pep.2004.04.024

Citácie:

1. [1.1] ROCA-PINILLA, Ramon - LISOWSKI, Leszek - ARIS, Anna - GARCIA-FRUITOS, Elena. The future of recombinant host defense peptides. In MICROBIAL CELL FACTORIES, 2022, vol. 21, no. 1, pp. Dostupné na: https://doi.org/10.1186/s12934-022-01991-2, Registrované v: WOS

ADCA47 ČIPÁK, Ľuboš - RAUKO, Peter - MIADOKOVÁ, Eva - ČIPÁKOVÁ, Ingrid - NOVOTNÝ, Ladislav. Effects of flavonoids on cisplatin-induced apoptosis of HL-60 and L1210 leukemia cells. In Leukemia Research, 2003, vol. 27, no. 1, p. 65-72. (2002: 2.115 - IF). ISSN 0145-2126. Dostupné na: https://doi.org/10.1016/S0145-2126(02)00063-2

Citácie:

1. [1.1] DAS, N. - PARVIN, M.S. - HASAN, M. - AKTER, M. - HOSSAIN, M.S. - PARVEZ, G.M.M. - SARKER, A.K. - RAHMAN, M.A.A. - AL MAMUN, A. - ISLAM, M.E. A flavone from the ethyl acetate extract of Leea rubra leaves with DNA damage protection and antineoplastic activity. In BIOCHEMISTRY AND BIOPHYSICS REPORTS. ISSN 2405-5808, JUL 2022, vol. 30. Dostupné na: https://doi.org/10.1016/j.bbrep.2022.101244, Registrované v: WOS

2. [1.1] KHUAYJARERNPANISHK, T. - SOOKYING, S. - DUANGJAI, A. - SAOKAEW, S. - SANBUA, A. - BUNTEONG, O. - RUNGRUANGSRI, N. - SUEPSAI, W. - SODSAI, P. - SOYLAIAD, J. - NACHAROEN, V. - NOIDAMNOEN, S. - PHISALPRAPA, P. Anticancer Activities of Polygonum odoratum Lour.: A Systematic Review. In FRONTIERS IN PHARMACOLOGY. APR 27 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fphar.2022.875016, Registrované v: WOS

3. [1.1] KUMAR, S. - TCHOUNWOU, P.B. p53 as a unique target of action of cisplatin in acute leukaemia cells. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, SEP 2022, vol. 26, no. 17, p. 4727-4739. Dostupné na: https://doi.org/10.1111/jcmm.17502, Registrované v: WOS

4. [1.1] TULI, Hardeep Singh - SAK, Katrin - ADHIKARY, Shubham - KAUR, Ginpreet - AGGARWAL, Diwakar - KAUR, Jagjit - KUMAR, Manoj - PARASHAR, Nidarshana Chaturvedi - PARASHAR, Gaurav - SHARMA, Uttam - JAIN, Aklank. Galangin: A metabolite that suppresses anti-neoplastic activities through modulation of oncogenic targets. In EXPERIMENTAL BIOLOGY AND MEDICINE, 2022, vol. 247, no. 4, pp. 345-359. ISSN 1535-3702. Dostupné na: https://doi.org/10.1177/15353702211062510, Registrované v: WOS

5. [1.2] RAJAPRIYA, Sadanandan - GEETHA, Arumugam. Effect of luteolin on the gene level expression of apoptosis-associated speck-like protein containing a caspase recruitment domain of NLRP3 inflammasome and NF-κB in rats subjected to experimental pancreatitis-influence of HSP70. In Journal of Basic and Clinical Physiology and Pharmacology, 2022-07-01, 33, 4, pp. 477-486. ISSN 07926855. Dostupné na: https://doi.org/10.1515/jbcpp-2020-0255, Registrované v: SCOPUS

ADCA48 DA LAGE, J.L. - BINDER, M. - HUA-VAN, A. - JANEČEK, Štefan - CASANE, D. Gene make-up: Rapid and massive intron gains after horizontal transfer of a bacterial α-amylase gene to Basidiomycetes. In BMC Evolutionary Biology, 2013, vol. 13, 40. (2012: 3.285 - IF, Q2 - JCR, 2.027 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1471-2148. Dostupné na: https://doi.org/10.1186/1471-2148-13-40

Citácie:

1. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

2. [1.1] RINGEL, M. - DIMOS, N. - HIMPICH, S. - HAACK, M. - HUBER, C. - EISENREICH, W. - SCHENK, G. - LOLL, B. - BRüCK, T. Biotechnological potential and initial characterization of two novel sesquiterpene synthases from Basidiomycota Coniophora puteana for heterologous production of δ-cadinol. In MICROBIAL CELL FACTORIES. APR 19 2022, vol. 21, no. 1. Dostupné na: https://doi.org/10.1186/s12934-022-01791-8, Registrované v: WOS

3. [1.2] FELLER, Georges - BONNEAU, Magalie - DA LAGE, Jean Luc. Amyrel, a novel glucose-forming α-amylase from Drosophila with 4-α-glucanotransferase activity by disproportionation and hydrolysis of maltooligosaccharides. In Glycobiology, 2021-09-01, 31, 9, pp. 1134-1144. ISSN 09596658. Dostupné na: https://doi.org/10.1093/glycob/cwab036, Registrované v: SCOPUS

ADCA49 DA LAGE, J.L. - FELLER, G. - JANEČEK, Štefan. Horizontal gene transfer from Eukarya to Bacteria and domain shuffling: the alpha-amylase model. In Cellular and Molecular Life Sciences : (CMLS), 2004, vol. 61, p. 97-109. (2003: 4.995 - IF, karentované - CCC). (2004 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-003-3334-y

Citácie:
1. [1.1] PRONGJIT, Daran - LEKAKARN, Hataikarn - BUNTERNGSOOK, Benjarat - AIEWVIRIYASAKUL, Katesuda - SRITUSNEE, Wipawee - CHAMPREDA, Verawat. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS, 2022, vol. 12, no. 6, pp. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

ADCA50 DANKO, Martin** - MOSNÁČKOVÁ, Katarína - VYKYDALOVÁ, Anna - KLEINOVÁ, Angela - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico - BUJDOŠ, Marek - MOSNÁČEK, Jaroslav. Properties and degradation performances of biodegradable poly(lactic acid)/poly(3-hydroxybutyrate) blends and keratin composites. In Polymers : Open Access Polymer Science Journal, 2021, vol. 13, art. no. 2693, [18] p. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na: https://doi.org/10.3390/polym13162693

Citácie:
1. [1.1] FRONE, Adriana Nicoleta - GHIUREA, Marius - NICOLAE, Cristian Andi - GABOR, Augusta Raluca - BADILA, Stefania - PANAITESCU, Denis Mihaela. Poly(lactic acid)/Poly(3-hydroxybutyrate) Biocomposites with Differently Treated Cellulose Fibers. In MOLECULES. APR 2022, vol. 27, no. 8. Dostupné na: https://doi.org/10.3390/molecules27082390, Registrované v: WOS
2. [1.1] SATOH, Keigo - KAWAKAMI, Tomoya - ISOBE, Nagi - PASQUIER, Loic - TOMITA, Hiroya - ZINN, Manfred - MATSUMOTO, Ken';ichiro. Versatile aliphatic polyester biosynthesis system for producing random and block copolymers composed of 2-, 3-, 4-, 5-, and 6-hydroxyalkanoates using the sequence-regulating polyhydroxyalkanoate synthase PhaC(AR). In MICROBIAL CELL FACTORIES. MAY 14 2022, vol. 21, no. 1. Dostupné na: https://doi.org/10.1186/s12934-022-01811-7, Registrované v: WOS

ADCA51 DEGLOVIČ, Juraj - MAJTANOVA, Nora - MAJTÁN, Juraj**. Antibacterial and antibiofilm effect of honey in the prevention of dental caries: a recent perspective. In Foods, 2022, vol. 11, art. no. 2670. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2304-8158. Dostupné na: https://doi.org/10.3390/foods11172670 (APVV-21-0262 : Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu)

Citácie:
1. [1.1] ALAMASI, B.Y. - ALBAKRAN, G.F. - ALGHABBAN, A.A. - IDREES, F.F. - ALTOKHAIM, K.S. - ALRUBAISH, R.I. - ALGHUNEEM, R.A. SAUDI POPULATION';S AWARENESS AND ATTITUDE TOWARD USING DIFFERENT HOME REMEDIES TO TREAT ORAL PROBLEMS. In ANNALS OF DENTAL SPECIALTY. ISSN 2347-2022, APR-JUN 2022, vol. 10, no. 2, p. 110-116., Registrované v: WOS
2. [1.1] DANILUK, K. - LANGE, A. - PRUCHNIEWSKI, M. - MALOLEPSZY, A. - SAWOSZ, E. - JAWORSKI, S. Delivery of Melittin as a Lytic Agent via Graphene Nanoparticles as Carriers to Breast Cancer Cells. In JOURNAL OF FUNCTIONAL BIOMATERIALS. DEC 2022, vol. 13, no. 4., Registrované v: WOS
3. [1.1] PADMALOCHINI, S. - GEETHA, R.V. - LAKSHMI, T. In Vitro Evaluation of Anti-Microbial Activity of Manuka Honey Against Oral Pathogens. In JOURNAL OF COMPLEMENTARY MEDICINE RESEARCH. ISSN 2146-8397, 2022, vol. 13, no. 5, p. 64-68., Registrované v: WOS
4. [1.1] ROMARIO-SILVA, D. - ALENCAR, S.M. - BUENO-SILVA, B. - SARDI, J.D.O. - FRANCHIN, M. - DE CARVALHO, R.D.P. - FERREIRA, T.E.D.A. - ROSALEN, P.L. Antimicrobial Activity of Honey against Oral Microorganisms: Current Reality, Methodological Challenges and Solutions. In MICROORGANISMS. DEC 2022, vol. 10, no. 12., Registrované v: WOS
5. [1.1] ROYO, V.D. - DE OLIVEIRA, D.A. - VELOSO, P.H.F. - SACRAMENTO, V.D. - OLIMPIO, E.L.A. - DE SOUZA, L.F. - PIRES, N.D. - MARTINS, C.H.G. - SANTIAGO, M.B. - ALVES, T.M.D. - ACACIO, T.M. - DE MELO, A.F. - BRANDAO, M.M. - MENEZES, E.V. Physicochemical Profile, Antioxidant and Antimicrobial Activities of Honeys Produced in Minas Gerais (Brazil). In ANTIBIOTICS-BASEL. ISSN 2079-6382, OCT 2022, vol. 11, no. 10., Registrované v: WOS

ADCA52 DOVICOVICOVA, L. - OLEXOVA, L. - PANGALLO, Domenico - SIEKEL, P. - KUCHTA, T. Polymerase chain reaction (PCR) for the detection of celery (Apium graveolens() in food. In European Food Research and Technology, 2004, vol. 218, p. 493-495. ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-004-0899-0

Citácie:
1. [1.2] NEGI, Aditi - LAKSHMI, P. - PRABA, K. - MEENATCHI, R. - PARE, Akash. Detection of food adulterants in different foodstuff. In Food Chemistry: The Role of Additives, Preservatives and Adulteration, 2021-12-16, pp. 117-164. Dostupné na: https://doi.org/10.1002/9781119792130.ch5, Registrované v: SCOPUS

ADCA53 DUDÁŠOVÁ, H. - LUKÁČOVÁ, L. - MURÍNOVÁ, S. - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico - DERCOVÁ, Katarína. Bacterial strains isolated from PCB-contaminated sediments and their use for bioaugmentation strategy in microcosms. In Journal of Basic Microbiology, 2014, vol. 54, p. 253–260. (2013: 1.822 - IF, Q3 - JCR, 0.536 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0233-111X. Dostupné na: https://doi.org/10.1002/jobm.201200369

Citácie:

1. [1.1] MUGANI, R. - EL KHALLOUFI, F. - REDOUANE, E. - HAIDA, M. - ZERRIFI, S.E. - CAMPOS, A. - KASADA, M. - WOODHOUSE, J. - GROSSART, H.P. - VASCONCELOS, V. - OUDRA, B. Bacterioplankton Associated with Toxic Cyanobacteria Promote Pisum sativum (Pea) Growth and Nutritional Value through Positive Interactions. In MICROORGANISMS. AUG 2022, vol. 10, no. 8. Dostupné na: https://doi.org/10.3390/microorganisms10081511, Registrované v: WOS

2. [1.1] ODRI, A. - FILHO, J.A. - SMART, M. - BROADHURST, J. - HARRISON, S.T.L. - PETERSEN, J. - HARRIS, C. - EDRAKI, M. - BECKER, M. Sulfur and oxygen isotope constraints on sulfate sources and neutral rock drainage-related processes at a South African colliery. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, NOV 10 2022, vol. 846. Dostupné na: https://doi.org/10.1016/j.scitotenv.2022.157178, Registrované v: WOS

3. [1.1] SANTISI, S. - ZOCCALI, M. - CATANIA, V. - QUATRINI, P. - MONDELLO, L. - GENOVESE, M. - CAPPELLO, S. Biodegradation Potential of Oil-degrading Bacteria Related to the Genus Thalassospira Isolated from Polluted Coastal Area in Mediterranean Sea. In SOIL & SEDIMENT CONTAMINATION. ISSN 1532-0383, APR 3 2022, vol. 31, no. 3, p. 316-332. Dostupné na: https://doi.org/10.1080/15320383.2021.1937935, Registrované v: WOS

ADCA54 DVOŘÁKOVÁ-HOLÁ, K. - MATUŠKOVÁ, A. - KUBALA, Martin - OTYEPKA, M. - KUČERA, T. - VEČEŘ, J. - HEŘMAN, P. - PARKHOMENKO, N. - KUTEJOVÁ, Eva - JANATA, J. Glycine-rich loop of mitochondrial processing peptidase ?-subunit is responsible for substrate recognition by a mechanism analogous to mitochondrial receptor Tom20. In Journal of Molecular Biology, 2010, vol. 396, p. 1197–1210. (2009: 3.871 - IF, Q2 - JCR, 3.512 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0022-2836. Dostupné na: https://doi.org/10.1016/j.jmb.2009.12.054

Citácie:

1. [1.1] HEIDORN-CZARNA, Malgorzata - MAZIAK, Agata - JANSKA, Hanna. Protein Processing in Plant Mitochondria Compared to Yeast and Mammals. In FRONTIERS IN PLANT SCIENCE, 2022, vol. 13, no., pp. ISSN 1664-462X. Dostupné na: https://doi.org/10.3389/fpls.2022.824080, Registrované v: WOS

2. [1.1] TACHEZY, Jan - MAKKI, Abhijith - HRDY, Ivan. The hydrogenosome of Trichomonas vaginalis. In JOURNAL OF EUKARYOTIC MICROBIOLOGY, 2022, vol. 69, no. 6, pp. ISSN 1066-5234. Dostupné na: https://doi.org/10.1111/jeu.12922, Registrované v: WOS

ADCA55 ENTENZA, J.M. - MOREILLON, P. - SENN, M.M. - KORMANEC, Ján - DUNMAN, P. - BERGER-BACHI, B. - PROJAN, S. - BISCHOFF, M. Role of sigmaB in the expression of Staphylococcus aureus cell wall adhesins ClfA and FnbA and contribution to infectivity in a rat model of experimental endocarditis. In Infection and Immunity, 2005, vol. 73, p. 990-998. ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/IAI.73.2.990-998.2005

Citácie:

1. [1.1] KINNEY, Kyle J. - STACH, Jessica M. - KULHANKOVA, Katarina - BROWN, Matthew - SALGADO-PABON, Wilmara. Vegetation Formation in Staphylococcus Aureus Endocarditis Inversely Correlates With RNAIII and sarA Expression in Invasive Clonal Complex 5 Isolates. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY, 2022, vol. 12, no., pp. ISSN 2235-2988. Dostupné na: https://doi.org/10.3389/fcimb.2022.925914, Registrované v: WOS

2. [1.1] MA, Pei Yee - CHONG, Chun Wie - THAN, Leslie Thian Lung - SULONG, Anita Binti - HO, Ket Li - NEELA, Vasantha Kumari - SEKAWI, Zamberi - LIEW, Yun Khoon. Impact of IsaA Gene Disruption: Decreasing Staphylococcal Biofilm and Alteration of Transcriptomic and Proteomic Profiles. In MICROORGANISMS, 2022, vol. 10, no. 6, pp. Dostupné na: https://doi.org/10.3390/microorganisms10061119, Registrované v: WOS

3. [1.1] STAATS, Amelia - BURBACK, Peter W. - SCHWIETERS, Andrew - LI, Daniel - SULLIVAN, Anne - HORSWILL, Alexander R. - STOODLEY, Paul. Rapid Aggregation of Staphylococcus aureus in Synovial Fluid Is Influenced by Synovial Fluid Concentration, Viscosity, and Fluid Dynamics, with Evidence of Polymer Bridging. In MBIO, 2022, vol. 13, no. 2, pp. ISSN 2150-7511. Dostupné na: https://doi.org/10.1128/mbio.00236-22, Registrované v: WOS

4. [1.1] WALLER, Amie K. - BIRCH, Katie - GIBBINS, Jonathan M. - CLARKE, Simon R. Activation of Human Platelets by Staphylococcus aureus Secreted Protease Staphopain A. In PATHOGENS, 2022, vol. 11, no. 11, pp. Dostupné na: https://doi.org/10.3390/pathogens11111237, Registrované v: WOS

ADCA56 EREñO-ORBEA, J. - MAJTÁN, Tomáš - OYENARTE, I. - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A.

Structural basis of regulation and oligomerization of human cystathionine β-synthase, the central enzyme of transsulfuration. In Proceedings of the National Academy of Sciences of the United States of America, 2013, vol. 110, no. 40, p. E3790-E3799. (2012: 9.737 - IF, Q1 - JCR, 6.868 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.1313683110

Citácie:

1. [1.1] ASCENçAO, K. - DILEK, N. - ZUHRA, K. - MóDIS, K. - SATO, T. - SZABO, C. Sequential Accumulation of ';Driver'; Pathway Mutations Induces the Upregulation of Hydrogen-Sulfide-Producing Enzymes in Human Colonic Epithelial Cell Organoids. In ANTIOXIDANTS. SEP 2022, vol. 11, no. 9. Dostupné na: https://doi.org/10.3390/antiox11091823, Registrované v: WOS

2. [1.1] BANDYOPADHYAY, P. - PRAMANICK, I. - BISWAS, R. - PS, S. - SREEDHARAN, S. - SINGH, S. - RAJMANI, R.S. - LAXMAN, S. - DUTTA, S. - SINGH, A. S-Adenosylmethionine-responsive cystathionine β-synthase modulates sulfur metabolism and redox balance in Mycobacterium tuberculosis. In SCIENCE ADVANCES. ISSN 2375-2548, JUN 24 2022, vol. 8, no. 25. Dostupné na: https://doi.org/10.1126/sciadv.abo0097, Registrované v: WOS

3. [1.1] KRUGER, W.D. How to fix a broken protein: restoring function to mutant human cystathionine β-synthase. In HUMAN GENETICS. ISSN 0340-6717, JUL 2022, vol. 141, no. 7, SI, p. 1299-1308. Dostupné na: https://doi.org/10.1007/s00439-021-02386-w, Registrované v: WOS

4. [1.1] MARTZOUKOU, O. - GLEKAS, P.D. - AVGERIS, M. - MAMMA, D. - SCORILAS, A. - KEKOS, D. - AMILLIS, S. - HATZINIKOLAOU, D.G. Interplay between Sulfur Assimilation and Biodesulfurization Activity in Rhodococcus qingshengii IGTS8: Insights into a Regulatory Role of the Reverse Transsulfuration Pathway. In MBIO. ISSN 2150-7511, AUG 30 2022, vol. 13, no. 4. Dostupné na: https://doi.org/10.1128/mbio.00754-22, Registrované v: WOS

5. [1.1] TRAN, J.U. - BROWN, B.L. Structural Basis for Allostery in PLP-dependent Enzymes. In FRONTIERS IN MOLECULAR BIOSCIENCES. APR 25 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fmolb.2022.884281, Registrované v: WOS

6. [1.2] CARBALLAL, Sebastián - BANERJEE, Ruma. Overview of cysteine metabolism. In Redox Chemistry and Biology of Thiols, 2022-01-01, pp. 423-450. Dostupné na: https://doi.org/10.1016/B978-0-323-90219-9.00016-9, Registrované v: SCOPUS

7. [1.2] ICIEK, Malgorzata - BILSKA-WILKOSZ, Anna - KOZDROWICKI, Michal - GÓRNY, Magdalena. Reactive sulfur species and their significance in health and disease. In Bioscience Reports, 2022-09-01, 42, 9, pp. ISSN 01448463. Dostupné na: https://doi.org/10.1042/BSR20221006, Registrované v: SCOPUS

ADCA57 FARKAS, Bence - VOJTKOVÁ, Hana - BUJDOŠ, Marek - KOLENČÍK, Marek - ŠEBESTA, Martin - MATULOVÁ, Michaela - DUBORSKÁ, Eva - DANKO, Martin - KIM, Hyunjung - KUČOVÁ, Kateřina - KISOVÁ, Zuzana - MATÚŠ, Peter - URÍK, Martin**. Fungal Mobilization of Selenium in the Presence of Hausmannite and Ferric Oxyhydroxides. In Journal of Fungi, 2021, vol. 7, art. no. 810, [10] p. (2020: 5.816 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2309-608X. Dostupné na: https://doi.org/10.3390/jof7100810

Citácie:

1. [1.1] HAGAROVA, I. - NERMCEK, L. Reliable Quantification of Ultratrace Selenium in Food, Beverages, and Water Samples by Cloud Point Extraction and Spectrometric Analysis. In NUTRIENTS. SEP 2022, vol. 14, no. 17., Registrované v: WOS

ADCA58 FARKAS, Bence - BUJDOŠ, Marek - POLÁK, Filip - MATULOVÁ, Michaela - CESNEK, Martin - DUBORSKÁ, Eva - ZVĚŘINA, Ondřej - KIM, Hyunjung - DANKO, Martin - KISOVÁ, Zuzana - MATÚŠ, Peter - URÍK, Martin**. Bioleaching of manganese oxides at different oxidation states by filamentous fungus Aspergillus niger. In Journal of Fungi, 2021, vol. 7, art. no. 808, [15] p. (2020: 5.816 - IF, Q1 - JCR, 1.702 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2309-608X. Dostupné na: https://doi.org/10.3390/jof7100808

Citácie:

1. [1.1] NASERI, T. - POURHOSSEIN, F. - MOUSAVI, S.M. - KAKSONEN, A.H. - KUCHTA, K. Manganese bioleaching: an emerging approach for manganese recovery from spent batteries. In REVIEWS IN ENVIRONMENTAL SCIENCE AND BIO-TECHNOLOGY. ISSN 1569-1705, JUN 2022, vol. 21, no. 2, p. 447-468., Registrované v: WOS

ADCA59 KISOVÁ, Zuzana - PLANÝ, Matej - PAVLOVIĆ, Jelena - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - KAPUSTOVÁ, Magdaléna - PANGALLO, Domenico** - ŠOLTYS, Katarína. Biodeteriogens Characterization and Molecular Analyses of Diverse Funeral Accessories from XVII Century. In Applied Sciences-Basel, 2020, vol. 10, p. 5451. (2019: 2.474 - IF, Q2 - JCR, 0.418 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2076-3417. Dostupné na: https://doi.org/10.3390/app10165451

Citácie:

1. [1.1] KAVKLER, K. - DEMSAR, A. - GOSTINCAR, C. - ZALAR, P. - TAVZES, C. Discolouration of fungal stains on cotton textiles. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2022, vol. 172., Registrované v: WOS

ADCA60 FARKAŠOVSKÁ, Jarmila - GODÁNY, Andrej. Analysis of the site-specific integration system of the Streptomyces aureofaciens phage µ1/6. In Current Microbiology, 2012, vol. 64, p. 226-233. (2011: 1.815 - IF, Q3 - JCR, 0.711 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0343-8651. Dostupné na: https://doi.org/10.1007/s00284-011-0054-7

Citácie:

1. [1.1] POGANY SIMONOVA, Monika - LAUKOVA, Andrea - CHRASTINOVA, Lubica - KANDRICAKOVA, Anna - SCERBOVA, Jana - STROMPFOVA, Viola - GANCARCIKOVA, Sona - PLACHA, Iveta - ZITNAN, Rudolf. Effect of enterocin M and durancin ED26E/7 supplementation on blood parameters, immune response and jejunal morphometry in rabbits. In JOURNAL OF ANIMAL PHYSIOLOGY AND ANIMAL NUTRITION, 2022, vol. 106, no. 2, pp. 378-386. ISSN 0931-2439. Dostupné na: https://doi.org/10.1111/jpn.13570, Registrované v: WOS

2. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_11, Registrované v: SCOPUS

ADCA61 FARKAŠOVSKÁ, Jarmila - BUGÁROVÁ, Veronika - GODOČÍKOVÁ, Jana - MAJTAN, V. - MAJTÁN, Juraj**. The role of hydrogen peroxide in the antibacterial activity of different floral honeys. In European Food Research and Technology, 2019, vol. 245, p. 2739–2744. (2018: 2.056 - IF, Q2 - JCR, 0.704 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-019-03393-y

Citácie:

1. [1.1] BARTLETT, L.J. - MARTINEZ-MEJIA, C. - DELAPLANE, K.S. Honey Bees (Apis mellifera Hymenoptera: Apidae) Preferentially Avoid Sugar Solutions Supplemented with Field-Relevant Concentrations of Hydrogen Peroxide Despite High Tolerance Limits. In JOURNAL OF INSECT SCIENCE. JAN 1 2022, vol. 22, no. 1., Registrované v: WOS

2. [1.1] FARKAS, A. - BALAZS, V.L. - KOSZEGI, T. - CSEPREGI, R. - KEREKES, E. - HORVATH, G. - SZABO, P. - GAAL, K. - KOCSIS, M. Antibacterial and Biofilm Degradation Effects of Hungarian Honeys Linked With Botanical Origin, Antioxidant Capacity and Mineral Content. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JUL 13 2022, vol. 9., Registrované v: WOS

3. [1.1] GODERSKA, K. Properties of bee honeys and respective analytical methods. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUN 2022, vol. 15, no. 6, p. 1720-1735., Registrované v: WOS

4. [1.1] HULEA, A. - OBISTIOIU, D. - COCAN, I. - ALEXA, E. - NEGREA, M. - NEACSU, A.G. - HULEA, C. - PASCU, C. - COSTINAR, L. - IANCU, I. - TIRZIU, E. - HERMAN, V. Diversity of Monofloral Honey Based on the Antimicrobial and Antioxidant Potential. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAY 2022, vol. 11, no. 5., Registrované v: WOS

5. [1.1] PATRUICA, S. - ALEXA, E. - OBISTIOIU, D. - COCAN, I. - RADULOV, I. - BERBECEA, A. - LAZAR, R.N. - SIMIZ, E. - VICAR, N.M. - HULEA, A. - MORARU, D. Chemical Composition, Antioxidant and Antimicrobial Activity of Some Types of Honey from Banat Region, Romania. In MOLECULES. JUL 2022, vol. 27, no. 13., Registrované v: WOS

6. [1.1] SAKAC, M. - JOVANOV, P. - MARIC, A. - CETOJEVIC-SIMIN, D. - NOVAKOVIC, A. - PLAVSIC, D. - SKROBOT, D. - KOVAC, R. Antioxidative, Antibacterial and Antiproliferative Properties of Honey Types from the Western Balkans. In ANTIOXIDANTS. JUN 2022, vol. 11, no. 6., Registrované v: WOS

7. [1.1] WANG, A.H. - LIANG, H.G. - CHEN, F. - TIAN, X.L. - YIN, S.B. - JING, S.Y. - TSIAKARAS, P. Facile synthesis of C3N4/NiIn2S4 heterostructure with novel solar steam evaporation efficiency and photocatalytic H2O2 production performance. In APPLIED CATALYSIS B-ENVIRONMENTAL. ISSN 0926-3373, AUG 5 2022, vol. 310., Registrované v: WOS

8. [1.2] BOUACHA, Mabrouka - BESNACI, Sana - BOUDIAR, Ines - AL-KAFAWEEN, Mohammad A. Impact of Storage on Honey Antibacterial and Antioxidant Activities and their Correlation with Polyphenolic Content. In Tropical Journal of Natural Product Research, 2022-01-01, 6, 1, pp. 34-39. ISSN 26160684. Dostupné na: https://doi.org/10.26538/tjnpr/v6i1.7, Registrované v: SCOPUS

ADCA62 FERIANC, Peter - FAREWELL, A. - NYSTROM, T. The cadmium-stress stimulon of Escherichia coli K-12. In Microbiology, 1998, vol. 144, p. 1045-1050. ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/00221287-144-4-1045

Citácie:

1. [1.1] ALVIZ-GAZITUA, Pablo - DURAN, Roberto E. - MILLACURA, Felipe A. - CARDENAS,

Franco - ROJAS, Luis A. - SEEGER, Michael. Cupriavidus metallidurans CH34 Possesses Aromatic Catabolic Versatility and Degrades Benzene in the Presence of Mercury and Cadmium. In MICROORGANISMS, 2022, vol. 10, no. 2, pp. Dostupné na: https://doi.org/10.3390/microorganisms10020484, Registrované v: WOS

ADCA63 FLOREK, Patrik - LEVDIKOV, V. - BLAGOVA, E. - LEBEDEV, A.A. - ŠKRABANA, Rostislav - REŠETÁROVÁ, Stanislava - PAVELČÍKOVÁ, Pamela - BARÁK, Imrich - WILKINSON, A.J. The structure and interactions of SpoIISA and SpoIISB, a toxin-antitoxin system in bacillus subtilis. In Journal of Biological Chemistry, 2011, vol. 286, p. 6808–6819. (2010: 5.328 - IF, Q1 - JCR, 3.998 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M110.172429

Citácie:

1. [1.2] GUPTA, Nidhi - BEHERA, Deepak Kumar - PRAJAPATI, Vijay Kumar - VERMA, Vijay Kumar. A comprehensive approach to discover Toxin-Antitoxin systems from human pathogen Helicobacter pylori: A poison and its antidote encapsulated in the genome. In Life Sciences, 2022-01-01, 288, pp. ISSN 00243205. Dostupné na: https://doi.org/10.1016/j.lfs.2021.120149, Registrované v: SCOPUS

ADCA64 FRANDSEN, N. - BARÁK, Imrich - KARMAZYN-CAMPELLI, C. - STRAGIER, P. Transient gene asymmetry during sporulation and establishment of cell specificity in Bacillus subtilis. In Genes & Development, 1999, vol. 13, 394-399. ISSN 0890-9369. Dostupné na: https://doi.org/10.1101/gad.13.4.394

Citácie:

1. [1.2] GUPTA, Rani - GUPTA, Namita. Competence and Sporulation in Bacillus subtilis. In Fundamentals of Bacterial Physiology and Metabolism, 2021-01-01, pp. 653-670. Dostupné na: https://doi.org/10.1007/978-981-16-0723-3_25, Registrované v: SCOPUS

ADCA65 FRANKOVSKY, J. - STOJKOVIČOVÁ, Barbora* - BELLOVÁ, Jana - KUNOVÁ, Nina - ČANIGOVÁ, N. - HANAKOVA, K. - BAUER, Jacob - ONDROVIČOVÁ, Gabriela - LUKÁČOVÁ, Veronika - SIVÁKOVÁ, Barbara - ZDRÁHAL, Zbyněk - PEVALA, Vladimír - PROCHÁZKOVÁ, K. - NOSEK, J. - BARÁTH, Peter** - KUTEJOVÁ, Eva** - TOMAŠKA, Ľubomír**. The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids. In Journal of Biological Chemistry, 2021, vol. 297, no. 4, no. 101155 [16] p. (2020: 5.157 - IF, Q2 - JCR, 2.361 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS). ISSN 0021-9258. Dostupné na: https://doi.org/10.1016/j.jbc.2021.101155

Citácie:

1. [1.1] BAI, W.H. - CHENG, L. - XIONG, L.K. - WANG, M.M. - LIU, H. - YU, K.H. - WANG, W.X. Protein succinylation associated with the progress of hepatocellular carcinoma. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, NOV 2022, vol. 26, no. 22, p. 5702-5712. Dostupné na: https://doi.org/10.1111/jcmm.17507, Registrované v: WOS

ADCA66 GABRIŠKO, Marek. Evolutionary history of eukaryotic alpha-glucosidases from the alpha-amylase family. In Journal of Molecular Evolution, 2013, vol. 76, p. 129-145. (2012: 2.145 - IF, Q3 - JCR, 1.384 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0022-2844. Dostupné na: https://doi.org/10.1007/s00239-013-9545-4

Citácie:

1. [1.1] MARENGO, M. - PEZZILLI, D. - GIANQUINTO, E. - FISSORE, A. - OLIARO-BOSSO, S. - SGORBINI, B. - SPYRAKIS, F. - ADINOLFI, S. Evaluation of Porcine and Aspergillus oryzae α-Amylases as Possible Model for the Human Enzyme. In PROCESSES. APR 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.3390/pr10040780, Registrované v: WOS

2. [1.1] SARDAR, P. - SUSTR, V. - CHRONáKOVá, A. - LORENC, F. Metatranscriptomic holobiont analysis of carbohydrate-active enzymes in the millipede Telodeinopus aoutii (Diplopoda, Spirostreptida). In FRONTIERS IN ECOLOGY AND EVOLUTION. ISSN 2296-701X, SEP 16 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fevo.2022.931986, Registrované v: WOS

3. [1.1] YANG, L. - TIAN, Y. - FANG, Y. - CHEN, M.L. - SMAGGHE, G. - NIU, J.Z. - WANG, J.J. A saliva α-glucosidase MpAgC2-2 enhance the feeding of green peach aphid Myzus persicae via extra-intestinal digestion. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY. ISSN 0965-1748, NOV 2022, vol. 150. Dostupné na: https://doi.org/10.1016/j.ibmb.2022.103846, Registrované v: WOS

ADCA67 GABRIŠKO, Marek - JANEČEK, Štefan. Characterization of maltase clusters in the genus Drosophila. In Journal of Molecular Evolution, 2011, vol. 72, p. 104-118. (2010: 2.311 - IF, Q3 - JCR, 1.478 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0022-2844. Dostupné na: https://doi.org/10.1007/s00239-010-9406-3

Citácie:

1. [1.1] FUZITA, Felipe J. - PALMISANO, Giuseppe - PIMENTA, Daniel C. - TERRA, Walter R. - FERREIRA, Clelia. A proteomic approach to identify digestive enzymes, their exocytic and

microapocrine secretory routes and their compartmentalization in the midgut of Spodoptera frugiperda. In COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY B-BIOCHEMISTRY & MOLECULAR BIOLOGY, 2022, vol. 257, no., pp. ISSN 1096-4959. Dostupné na: https://doi.org/10.1016/j.cbpb.2021.110670, Registrované v: WOS

2. [1.1] YANG, Li - TIAN, Yuan - FANG, Ying - CHEN, Meng-Ling - SMAGGHE, Guy - NIU, Jinzhi - WANG, Jin-Jun. A saliva alpha-glucosidase MpAgC2-2 enhance the feeding of green peach aphid Myzus persicae via extra-intestinal digestion. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY, 2022, vol. 150, no., pp. ISSN 0965-1748. Dostupné na: https://doi.org/10.1016/j.ibmb.2022.103846, Registrované v: WOS

ADCA68 GABRIŠKO, Marek - JANEČEK, Štefan. Looking for the ancestry of the heavy-chain subunits of heteromeric amino acid transporters rBAT and 4F2hc within the GH13 alpha-amylase family. In FEBS Journal, 2009, vol. 276, p. 7265-7278. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2009.07434.x

Citácie:

1. [1.1] LEE, Yongchan - WIRIYASERMKUL, Pattama - KONGPRACHA, Pornparn - MORIYAMA, Satomi - MILLS, Deryck J. - KUHLBRANDT, Werner - NAGAMORI, Shushi. Ca2+-mediated higher-order assembly of heterodimers in amino acid transport system b(0,+) biogenesis and cystinuria. In NATURE COMMUNICATIONS, 2022, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1038/s41467-022-30293-9, Registrované v: WOS

2. [1.1] YANG, Li - TIAN, Yuan - FANG, Ying - CHEN, Meng-Ling - SMAGGHE, Guy - NIU, Jinzhi - WANG, Jin-Jun. A saliva alpha-glucosidase MpAgC2-2 enhance the feeding of green peach aphid Myzus persicae via extra-intestinal digestion. In INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY, 2022, vol. 150, no., pp. ISSN 0965-1748. Dostupné na: https://doi.org/10.1016/j.ibmb.2022.103846, Registrované v: WOS

ADCA69 GARCÍA-NAFRÍA, J. - ONDROVIČOVÁ, Gabriela - BLAGOVA, E. - LEVDIKOV, V. - BAUER, Jacob - SUZUKI, C.K. - KUTEJOVÁ, Eva - WILKINSON, A.J. Structure of the catalytic domain of the human mitochondrial Lon protease: Proposed relation of oligomer formation and activity. In Protein Science, 2010, vol. 19, p. 987-999. (2009: 2.937 - IF, Q2 - JCR, 2.290 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0961-8368. Dostupné na: https://doi.org/10.1002/pro.376

Citácie:

1. [1.1] KUDZHAEV, A.M. - ANDRIANOVA, A.G. - GUSTCHINA, A.E. - SMIRNOV, I.V. - ROTANOVA, T.V. ATP-Dependent Lon Proteases in the Cellular Protein Quality Control System. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, AUG 2022, vol. 48, no. 4, p. 678-709., Registrované v: WOS

2. [1.1] MA, H.Z. - CHEN, W.T. - FAN, W.G. - HE, H.W. - HUANG, F. Roles of LonP1 in Oral-Maxillofacial Developmental Defects and Tumors: A Novel Insight. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 21., Registrované v: WOS

3. [1.1] MARKOV, A.V. - ILYINA, A.A. - SALOMATINA, O.V. - SEN';KOVA, A.V. - OKHINA, A.A. - ROGACHEV, A.D. - SALAKHUTDINOV, N.F. - ZENKOVA, M.A. Novel Soloxolone Amides as Potent Anti-Glioblastoma Candidates: Design, Synthesis, In Silico Analysis and Biological Activities In Vitro and In Vivo. In PHARMACEUTICALS. MAY 2022, vol. 15, no. 5., Registrované v: WOS

4. [1.1] MOHAMMED, I. - SCHMITZ, K.A. - SCHENCK, N. - BALASOPOULOS, D. - TOPITSCH, A. - MAIER, T. - ABRAHAMS, J.P. Catalytic cycling of human mitochondrial Lon protease. In STRUCTURE. ISSN 0969-2126, SEP 1 2022, vol. 30, no. 9, p. 1254-+., Registrované v: WOS

5. [1.1] WLODAWER, A. - SEKULA, B. - GUSTCHINA, A. - ROTANOVA, T.V. Structure and the Mode of Activity of Lon Proteases from Diverse Organisms. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, APR 15 2022, vol. 434, no. 7., Registrované v: WOS

6. [1.2] BULTEAU, Anne Laure - FRIGUET, Bertrand. Proteostasis and skin aging. In Proteostasis and Proteolysis, 2022-12-23, pp. 181-195. Dostupné na: https://doi.org/10.1201/9781003048138-14, Registrované v: SCOPUS

ADCA70 GEROVÁ, Martina - HALGAŠOVÁ, Nora - UGORČÁKOVÁ, Jana - BUKOVSKÁ, Gabriela. Endolysin of bacteriophage BFK20: evidence of a catalytic and a cell wall binding domain. In FEMS Microbiology Letters, 2011, vol. 321, p. 83-91. (2010: 2.040 - IF, Q3 - JCR, 1.081 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2011.02312.x

Citácie:

1. [1.1] SEKIYA, Hiroshi - YAMAJI, Hina - YOSHIDA, Ayumi - MATSUNAMI, Risa - KAMITORI, Shigehiro - TAMAI, Eiji. Biochemical Characterizations of the Putative Endolysin Ecd09610 Catalytic Domain from Clostridioides difficile. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 8, pp.

ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11081131, Registrované v: WOS
2. [1.1] WANG, Meng - DENG, Zifeng - LI, Yanmei - MA, Yi - WANG, Jufang. Design and characterization of a novel lytic protein against Clostridium difficile. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, 2022, vol. 106, no. 12, pp. 4511-4521. ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-022-12010-0, Registrované v: WOS

ADCA71 GHORBEL, S. - KORMANEC, Ján - ARTUS, A. - VIROLLE, M.J. Transcriptional studies and regulatory interactions between the phoR/phoP operon and the phoU, mtpA and ppk genes of Streptomyces lividans TK24. In Journal of Bacteriology, 2006, vol. 188, p. 677-686. (2005: 4.167 - IF, Q1 - JCR, 2.660 - SJR, Q1 - SJR). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.188.2.677-686.2006

Citácie:
1. [1.1] TANG, Jianli - CHEN, Jianming - LIU, Yang - HU, Jinjuan - XIA, Ziyuan - LI, Xiaomin - HE, Haocheng - RANG, Jie - SUN, Yunjun - YU, Ziquan - CUI, Jun - XIA, Liqiu. The Global Regulator PhoU Positively Controls Growth and Butenyl-Spinosyn Biosynthesis in Saccharopolyspora pogona. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.904627, Registrované v: WOS

ADCA72 GHORBEL, S. - SMIRNOV, A. - CHOUAYEKH, H. - SPERANDIO, B. - ESNAULT, C. - KORMANEC, Ján - VIROLLE, M.J. Regulation of ppk expression and in vivo function of Ppk in Streptomyces lividans TK24. In Journal of Bacteriology, 2006, vol. 188, p. 6269-6279. (2005: 4.167 - IF, Q1 - JCR, 2.660 - SJR, Q1 - SJR). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.00202-06

Citácie:
1. [1.1] GUNDINGER, Thomas - KITTLER, Stefan - KUBICEK, Sabine - KOPP, Julian - SPADIUT, Oliver. Recombinant Protein Production in E. coli Using the phoA Expression System. In FERMENTATION-BASEL, 2022, vol. 8, no. 4, pp. Dostupné na: https://doi.org/10.3390/fermentation8040181, Registrované v: WOS
2. [1.1] SHI, Jun-qiong - OU-YANG, Tian - YANG, Song-qi - ZHAO, Lu - JI, Lu-lu - WU, Zhong-xing. Transcriptomic responses to phosphorus in an invasive cyanobacterium, Raphidiopsis raciborskii: Implications for nutrient management. In HARMFUL ALGAE, 2022, vol. 111, no., pp. ISSN 1568-9883. Dostupné na: https://doi.org/10.1016/j.hal.2021.102150, Registrované v: WOS
3. [1.1] TIMOFEEVA, Anna - GALYAMOVA, Maria - SEDYKH, Sergey. Prospects for Using Phosphate-Solubilizing Microorganisms as Natural Fertilizers in Agriculture. In PLANTS-BASEL, 2022, vol. 11, no. 16, pp. Dostupné na: https://doi.org/10.3390/plants11162119, Registrované v: WOS
4. [1.2] BALAGA, Katrina Mae B. - REY, Jessica D. - DACONES, Leilani S. Genetic Basis of Pathogen Establishment and Fungicide Resistance of Phylogenetically Related Pseudocercospora spp. through Comparative Genomics. In Philippine Journal of Science, 2022-10-01, 151, 5, pp. 1857-1876. ISSN 00317683., Registrované v: SCOPUS

ADCA73 GIMÉNEZ-MASCARELL, P. - MAJTÁN, T. - OYENARTE, I. - EREñO-ORBEA, J. - MAJTÁN, Juraj - KLAUDINY, Jaroslav - KRAUS, J.P. - MARTÍNEZ-CRUZ, L.A.**. Crystal structure of cystathionine β-synthase from honeybee Apis mellifera. In Journal of Structural Biology, 2018, vol. 202, p. 82-93. (2017: 3.433 - IF, Q2 - JCR, 3.948 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2017.12.008

Citácie:
1. [1.1] BANDYOPADHYAY, P. - PRAMANICK, I. - BISWAS, R. - PS, S. - SREEDHARAN, S. - SINGH, S. - RAJMANI, R.S. - LAXMAN, S. - DUTTA, S. - SINGH, A. S-Adenosylmethionine-responsive cystathionine beta-synthase modulates sulfur metabolism and redox balance in Mycobacterium tuberculosis. In SCIENCE ADVANCES. ISSN 2375-2548, JUN 24 2022, vol. 8, no. 25., Registrované v: WOS
2. [1.1] LI, J.J. - LI, F.F. - YU, N. - LIU, Z.W. The betaine-dependent remethylation pathway is a homocysteine metabolism pathway associated with the carnivorous feeding habits of spiders. In INSECT SCIENCE. ISSN 1672-9609, AUG 2022, vol. 29, no. 4, p. 1047-1058., Registrované v: WOS
3. [1.2] GOH, Neng Yao - MOHAMAD RAZIF, Muhammad Fazril - YAP, Yeannie Hui Yeng - NG, Chyan Leong - FUNG, Shin Yee. In silico analysis and characterization of medicinal mushroom cystathionine beta-synthase as an angiotensin converting enzyme (ACE) inhibitory protein. In Computational Biology and Chemistry, 2022-02-01, 96, pp. ISSN 14769271. Dostupné na: https://doi.org/10.1016/j.compbiolchem.2021.107620, Registrované v: SCOPUS

ADCA74 GLORIEUX, Ch. - ZÁMOCKÝ, Marcel - SANDOVAL, J.M. - VERRAX, J. - CALDERON, P.B. Regulation of catalase expression in healthy and cancerous cells. In Free Radical Biology and Medicine, 2015, vol. 87, p. 84-97. (2014: 5.736 - IF, Q1 - JCR, 2.469 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0891-5849. Dostupné na: https://doi.org/10.1016/j.freeradbiomed.2015.06.017

Citácie:
1. [1.1] ARANGO-VARELA, S.S. - LUZARDO-OCAMPO, I. - MALDONADO-CELIS, M.E. Andean berry (Vaccinium meridionale Swartz) juice, in combination with Aspirin, displayed antiproliferative and pro-apoptotic mechanisms in vitro while exhibiting protective effects against AOM-induced colorectal cancer in vivo. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, JUL 2022, vol. 157. Dostupné na: https://doi.org/10.1016/j.foodres.2022.111244, Registrované v: WOS
2. [1.1] CAVALU, S. - SHARAF, H. - SABER, S. - YOUSSEF, M.E. - ABDELHAMID, A.M. - MOURAD, A.A.E. - IBRAHIM, S. - ALLAM, S. - ELGHARABAWY, R.M. - EL-AHWANY, E. - AMIN, N.A. - SHATA, A. - ELDEGLA, M. - ATEF, M. - ABORAYA, M. - MOHAMED, M. - ANZ, N. - ABD ELMOTELB, D. - GABR, F. - ELZABLAWY, D. - HAMADA, M. - YEHIA, A. - OSAMA, D. - MOHAMMED, O.A. Ambroxol, a mucolytic agent, boosts HO-1, suppresses NF-κB, and decreases the susceptibility of the inflamed rat colon to apoptosis: A new treatment option for treating ulcerative colitis. In FASEB JOURNAL. ISSN 0892-6638, SEP 2022, vol. 36, no. 9. Dostupné na: https://doi.org/10.1096/fj.202200749R, Registrované v: WOS
3. [1.1] CHEN, C.L. - FANG, Y.P. - CUI, X.C. - ZHOU, D.D. Effects of trace PFOA on microbial community and metabolisms: Microbial selectivity, regulations and risks. In WATER RESEARCH. ISSN 0043-1354, NOV 1 2022, vol. 226. Dostupné na: https://doi.org/10.1016/j.watres.2022.119273, Registrované v: WOS
4. [1.1] CLIFFORD, T. - ACTON, J.P. - COCKSEDGE, S.P. - DAVIES, K.A.B. - BAILEY, S.J. The effect of dietary phytochemicals on nuclear factor erythroid 2-related factor 2 (Nrf2) activation: a systematic review of human intervention trials. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, FEB 2021, vol. 48, no. 2, p. 1745-1761. Dostupné na: https://doi.org/10.1007/s11033-020-06041-x, Registrované v: WOS
5. [1.1] ELMOGHAZY, H.M. - HUSSEIN, M.A. - ABDEL-AZIZ, A. - ELMASRY, S.A. - METWALY, A.M. CAPE Improves Vanin-1/AKT/miRNA-203 Signaling Pathways in DSS-induced Ulcerative Colitis. In BIOMEDICAL RESEARCH AND THERAPY. ISSN 2198-4093, 2022, vol. 9, no. 9, p. 5313-5325. Dostupné na: https://doi.org/10.15419/bmrat.v9i9.769, Registrované v: WOS
6. [1.1] GALASSO, M. - DALLA POZZA, E. - CHIGNOLA, R. - GAMBINO, S. - CAVALLINI, C. - QUAGLIA, F.M. - LOVATO, O. - DANDO, I. - MALPELI, G. - KRAMPERA, M. - DONADELLI, M. - ROMANELLI, M.G. - SCUPOLI, M.T. The rs1001179 SNP and CpG methylation regulate catalase expression in chronic lymphocytic leukemia. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, OCT 2022, vol. 79, no. 10. Dostupné na: https://doi.org/10.1007/s00018-022-04540-7, Registrované v: WOS
7. [1.1] GAUTAM, S.S. - SINGH, R.P. - KARSAULIYA, K. - SONKER, A.K. - REDDY, P.J. - MEHROTRA, D. - GUPTA, S. - SINGH, S. - KUMAR, R. - SINGH, S.P. Label-free plasma proteomics for the identification of the putative biomarkers of oral squamous cell carcinoma. In JOURNAL OF PROTEOMICS. ISSN 1874-3919, MAY 15 2022, vol. 259. Dostupné na: https://doi.org/10.1016/j.jprot.2022.104541, Registrované v: WOS
8. [1.1] HE, L.G.N. - DUAN, Z.Y. - YU, M.Q. - QI, S.H. - WANG, Y. - LOU, H.Q. - HE, Q. HDA-2-Containing Complex Is Required for Activation of Catalase-3 Expression in Neurospora crassa. In MBIO. ISSN 2150-7511, AUG 30 2022, vol. 13, no. 4. Dostupné na: https://doi.org/10.1128/mbio.01351-22, Registrované v: WOS
9. [1.1] JENA, A.B. - RATH, S. - SUBUDHI, U. - DANDAPAT, J. Molecular interaction of benzo-a-pyrene inhibits the catalytic activity of catalase: Insights from biophysical and computational studies. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, OCT 5 2022, vol. 1265. Dostupné na: https://doi.org/10.1016/j.molstruc.2022.133494, Registrované v: WOS
10. [1.1] JUNGHANS, M. - JOHN, F. - CIHANKAYA, H. - SCHLIEBS, D. - WINKLHOFER, K.F. - BADER, V. - MATSCHKE, J. - THEISS, C. - MATSCHKE, V. ROS scavengers decrease γH2ax spots in motor neuronal nuclei of ALS model mice in vitro. In FRONTIERS IN CELLULAR NEUROSCIENCE. AUG 31 2022, vol. 16. Dostupné na: https://doi.org/10.3389/fncel.2022.963169, Registrované v: WOS
11. [1.1] KAMAL, G.F. - NASR, M.Y. - HUSSEIN, M.A. - ABDEL-AZIZ, A. - FAYED, A.M. Morin: a promising nutraceutical therapy for modulation of the NF-kB/NOX-2/IL-6/HO-1 signaling pathways in paracetamol-induced liver toxicity. In BIOMEDICAL RESEARCH AND THERAPY. ISSN 2198-4093, 2022, vol. 9, no. 9, p. 5260-5271. Dostupné na: https://doi.org/10.15419/bmrat.v9i9.763, Registrované v: WOS
12. [1.1] KONG, Y. - CHEN, H. - CHEN, M.Y. - LI, Y.S. - LI, J.R. - LIU, Q. - XIONG, H. - GUO, T.X. - XIE, Y. - YUAN, Y.F. - ZHANG, X.L. Abnormal ECA-Binding Membrane Glycans and Galactosylated CAT and P4HB in Lesion Tissues as Potential Biomarkers for Hepatocellular Carcinoma Diagnosis. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, MAR 22 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fonc.2022.855952, Registrované v: WOS

13. [1.1] LI, X.W. - NASEEM, S. - HUSSAIN, R. - GHAFFAR, A. - LI, K. - KHAN, A. Evaluation of DNA Damage, Biomarkers of Oxidative Stress, and Status of Antioxidant Enzymes in Freshwater Fish (Labeo rohita) Exposed to Pyriproxyfen. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, JUN 10 2022, vol. 2022. Dostupné na: https://doi.org/10.1155/2022/5859266, Registrované v: WOS
14. [1.1] LIN, H.Y. - LIM, S.W. - HSU, T.I. - YANG, W.B. - HUANG, C.C. - TSAI, Y.T. - CHANG, W.C. - KO, C.Y. CCAAT/Enhancer-Binding Protein Delta Regulates Glioblastoma Survival through Catalase-Mediated Hydrogen Peroxide Clearance. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, AUG 18 2022, vol. 2022. Dostupné na: https://doi.org/10.1155/2022/4081380, Registrované v: WOS
15. [1.1] LOPES, J.A. - COLLINO, F. - RODRIGUES-FERREIRA, C. - SAMPAIO, L.D. - COSTA-SARMENTO, G. - WENDT, C.H.C. - ALMEIDA, F.P. - MIRANDA, K.R. - KASAI-BRUNSWICK, T.H. - LINDOSO, R.S. - VIEYRA, A. Early Effects of Extracellular Vesicles Secreted by Adipose Tissue Mesenchymal Cells in Renal Ischemia Followed by Reperfusion: Mechanisms Rely on a Decrease in Mitochondrial Anion Superoxide Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MAR 2022, vol. 23, no. 6. Dostupné na: https://doi.org/10.3390/ijms23062906, Registrované v: WOS
16. [1.1] LU, S.Q. - HU, Q.Z. - YU, L. Construction of a liquid Crystal-based Sensing Platform for the Sensitive Detection of Catalase in Human Serum. In MICROCHEMICAL JOURNAL. ISSN 0026-265X, OCT 2022, vol. 181. Dostupné na: https://doi.org/10.1016/j.microc.2022.107705, Registrované v: WOS
17. [1.1] LV, L. - SHU, H.Y. - MO, X.Y. - TIAN, Y.J. - GUO, H. - SUN, H.Y. Activation of the Nrf2 Antioxidant Pathway by Longjing Green Tea Polyphenols in Mice Livers. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, DEC 2022, vol. 17, no. 12. Dostupné na: https://doi.org/10.1177/1934578X221139409, Registrované v: WOS
18. [1.1] MAHARJAN, P.S. - BHATTARAI, H.K. Singlet Oxygen, Photodynamic Therapy, and Mechanisms of Cancer Cell Death. In JOURNAL OF ONCOLOGY. ISSN 1687-8450, JUN 25 2022, vol. 2022. Dostupné na: https://doi.org/10.1155/2022/7211485, Registrované v: WOS
19. [1.1] MARTINEZ-FIERRO, M.L. - GARZA-VELOZ, I. - CASTAñEDA-LOPEZ, M.E. - WASIKE, D. - CASTRUITA-DE LA ROSA, C. - RODRIGUEZ-SANCHEZ, I.P. - DELGADO-ENCISO, I. - FLORES-MENDOZA, J. Evaluation of the Effect of the Fibroblast Growth Factor Type 2 (FGF-2) Administration on Placental Gene Expression in a Murine Model of Preeclampsia Induced by L-NAME. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2022, vol. 23, no. 17. Dostupné na: https://doi.org/10.3390/ijms231710129, Registrované v: WOS
20. [1.1] MENDONçA, J.D. - GUIMARAES, R.D.A. - ZORGETTO-PINHEIRO, V.A. - FERNANDES, C.D. - MARCELINO, G. - BOGO, D. - FREITAS, K.D. - HIANE, P.A. - MELO, E.S.D. - VILELA, M.L.B. - DO NASCIMENTO, V.A. Natural Antioxidant Evaluation: A Review of Detection Methods. In MOLECULES. JUN 2022, vol. 27, no. 11. Dostupné na: https://doi.org/10.3390/molecules27113563, Registrované v: WOS
21. [1.1] PAGANO, M.A. - FREZZATO, F. - VISENTIN, A. - TRENTIN, L. - BRUNATI, A.M. Protein Phosphorylation and Redox Status: An as Yet Elusive Dyad in Chronic Lymphocytic Leukemia. In CANCERS. OCT 2022, vol. 14, no. 19. Dostupné na: https://doi.org/10.3390/cancers14194881, Registrované v: WOS
22. [1.1] PONZETTI, M. - UCCI, A. - PURI, C. - GIACCHI, L. - FLATI, I. - CAPECE, D. - ZAZZERONI, F. - CAPPARIELLO, A. - RUCCI, N. - FALONE, S. Effects of osteoblast-derived extracellular vesicles on aggressiveness, redox status and mitochondrial bioenergetics of MNNG/HOS osteosarcoma cells. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, DEC 5 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fonc.2022.983254, Registrované v: WOS
23. [1.1] PUDLARZ, A.M. - RANOSZEK-SOLIWODA, K. - KARBOWNIK, M.S. - CZECHOWSKA, E. - TOMASZEWSKA, E. - CELICHOWSKI, G. - GROBELNY, J. - CHABIELSKA, E. - GROMOTOWICZ-POPLAWSKA, A. - SZEMRAJ, J. Antioxidant enzymes immobilized on gold and silver nanoparticles enhance DNA repairing systems of rat skin after exposure to ultraviolet radiation,,. In NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE. ISSN 1549-9634, JUL 2022, vol. 43. Dostupné na: https://doi.org/10.1016/j.nano.2022.102558, Registrované v: WOS
24. [1.1] TAO, Y. - LIU, S.H. - LU, J.Z. - FU, S.J. - LI, L.L. - ZHANG, J. - WANG, Z.P. - HONG, M. FOXO3a-ROS pathway is involved in androgen-induced proliferation of prostate cancer cell. In BMC UROLOGY. ISSN 1471-2490, APR 29 2022, vol. 22, no. 1. Dostupné na: https://doi.org/10.1186/s12894-022-01020-9, Registrované v: WOS
25. [1.1] UNGUR, R.A. - BORDA, I.M. - CODEA, R.A. - CIORTEA, V.M. - NASUI, B.A. - MUSTE, S. - SARPATAKY, O. - FILIP, M. - IRSAY, L. - CRACIUN, E.C. - CAINAP, S. - JIVANESCU, D.B. - POP, A.L. - SINGUREAN, V.E. - CRISAN, M. - GROZA, O.B. - MARTIS, G.S. A Flavonoid-Rich

Extract of Sambucus nigra L. Reduced Lipid Peroxidation in a Rat Experimental Model of Gentamicin Nephrotoxicity. In MATERIALS. FEB 2022, vol. 15, no. 3. Dostupné na: https://doi.org/10.3390/ma15030772, Registrované v: WOS
26. [1.1] WANG, Y. - LI, H.C. - LIU, Y. - ZHOU, M.Y. - DING, M.Z. - YUAN, Y.J. Construction of synthetic microbial consortia for 2-keto-L-gulonic acid biosynthesis. In SYNTHETIC AND SYSTEMS BIOTECHNOLOGY. ISSN 2405-805X, MAR 2022, vol. 7, no. 1, p. 481-489. Dostupné na: https://doi.org/10.1016/j.synbio.2021.12.001, Registrované v: WOS
27. [1.1] YANG, X. - RAI, U. - CHUNG, J.Y. - ESUMI, N. Fine Tuning of an Oxidative Stress Model with Sodium Iodate Revealed Protective Effect of NF-κB Inhibition and Sex-Specific Difference in Susceptibility of the Retinal Pigment Epithelium. In ANTIOXIDANTS. JAN 2022, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/antiox11010103, Registrované v: WOS
28. [1.1] YU, Q.Q. - ZHANG, H. - GUO, Y.J. - HAN, B.Q. - JIANG, P. The Intestinal Redox System and Its Significance in Chemotherapy-Induced Intestinal Mucositis. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, MAY 9 2022, vol. 2022. Dostupné na: https://doi.org/10.1155/2022/7255497, Registrované v: WOS
29. [1.1] ZHOU, Y.K. - SHEN, S.J. - DU, C.C. - WANG, Y. - LIU, Y. - HE, Q. A role for the mitotic proteins Bub3 and BuGZ in transcriptional regulation of catalase-3 expression. In PLOS GENETICS. ISSN 1553-7404, JUN 2022, vol. 18, no. 6. Dostupné na: https://doi.org/10.1371/journal.pgen.1010254, Registrované v: WOS
30. [1.2] BELLÓ, Caroline - PRESTES, Ana Paula - SCHEMBERGER, Josiane Aparecida - HACKE, Ana Carolina Mendes - PEREIRA, Romaiana Picada - MANENTE, Francine Alessandra - CARLOS, Iracilda Zeppone - DE ANDRADE, Cleverton Roberto - FERNANDES, Daniel - DA CRUZ, Ivana Beatrice Manica - UNFER, Taís Cristina - VELLOSA, José Carlos Rebuglio. Aqueous extract of Paullinia cupana attenuates renal and hematological effects associated with ketoprofen. In Journal of Food Biochemistry, 2021-01-01, 45, 1, pp. ISSN 01458884. Dostupné na: https://doi.org/10.1111/jfbc.13560, Registrované v: SCOPUS
31. [1.2] HE, Lingaonan - DUAN, Zeyu - YU, Muqun - QI, Shaohua - WANG, Ying - LOU, Huiqiang - HE, Qun. HDA-2-Containing Complex Is Required for Activation of Catalase-3 Expression in Neurospora crassa. In mBio, 2022-08-01, 13, 4, pp. ISSN 21612129. Dostupné na: https://doi.org/10.1128/mbio.01351-22, Registrované v: SCOPUS
32. [1.2] KHOTIMAH, Husnul - ALFRED, Travis - WANGTA, Claudio - CHANDRA, Krisna - TJAN, Benny - CHRISTIANTO, Albert - ALI, Mulyohadi - KALSUM, Umi. Miracle tree (Moringa oleifera) extract prevents rotenone-induced stunting in zebrafish (Danio rerio) through decreasing caspase-3. In AIP Conference Proceedings, 2021-05-25, 2353, pp. ISSN 0094243X. Dostupné na: https://doi.org/10.1063/5.0053014, Registrované v: SCOPUS
33. [1.2] LI, Xianghui - LIU, Ruixia - ZHAO, Junfang - ZHANG, Yuanyuan - WANG, Jiao. Effects of Ilex paraguariensis on Redox Status in High-fat Diet Fed Mice. In Science and Technology of Food Industry, 2022-01-01, 43, 11, pp. 376-382. ISSN 10020306. Dostupné na: https://doi.org/10.13386/j.issn1002-0306.2021100191, Registrované v: SCOPUS
34. [1.2] SALEHI, Salome Sadat - MIRMIRANPOUR, Hossein - RABIZADEH, Soghra - ESTEGHAMATI, Alireza - TOMASELLO, Giovanni - ALIBAKHSHI, Abbas - NAJAFI, Niloofar - RAJAB, Armin - NAKHJAVANI, Manouchehr. Improvement in Redox Homeostasis after Cytoreductive Surgery in Colorectal Adenocarcinoma. In Oxidative Medicine and Cellular Longevity, 2021-01-01, 2021, pp. ISSN 19420900. Dostupné na: https://doi.org/10.1155/2021/8864905, Registrované v: SCOPUS

ADCA75 GODÁLOVÁ, Z. - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KUCHTA, T. - PIKNOVA, L. - PANGALLO, Domenico. Bacterial consortia at different wine fermentation phases of two typical Central European grape varieties: Blaufränkisch (Frankovka modrá) and Grüner Veltliner (Veltlínske zelené). In International journal of food microbiology, 2016, vol. 217, p. 110–116. (2015: 3.445 - IF, Q1 - JCR, 1.614 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2015.10.015

Citácie:
1. [1.1] REGECOVá, I. - SEMJON, B. - JEVINOVá, P. - OCENáS, P. - VYROSTKOVá, J. - SULáKOVá, L. - NOSKOVá, E. - MARCINCáK, S. - BARTKOVSKY, M. Detection of Microbiota during the Fermentation Process of Wine in Relation to the Biogenic Amine Content. In FOODS. OCT 2022, vol. 11, no. 19. Dostupné na: https://doi.org/10.3390/foods11193061, Registrované v: WOS
2. [1.1] SHI, X. - LIU, Y.Q. - MA, Q.Y. - WANG, J. - LUO, J.H. - SUO, R. - SUN, J.F. Effects of low temperature on the dynamics of volatile compounds and their correlation with the microbial succession during the fermentation of Longyan wine. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JAN 15 2022, vol. 154. Dostupné na: https://doi.org/10.1016/j.lwt.2021.112661, Registrované v: WOS
3. [1.1] WANG, M.Q. - WANG, J.R. - CHEN, J.W. - PHILIPP, C. - ZHAO, X.N. - WANG, J. - LIU,

Y.Q. - SUO, R. Effect of Commercial Yeast Starter Cultures on Cabernet Sauvignon Wine Aroma Compounds and Microbiota. In FOODS. JUN 2022, vol. 11, no. 12. Dostupné na: https://doi.org/10.3390/foods11121725, Registrované v: WOS
4. [1.1] WEI, R.T. - CHEN, N. - DING, Y.T. - WANG, L. - LIU, Y.H. - GAO, F.F. - ZHANG, L. - LI, H. - WANG, H. Correlations between microbiota with physicochemical properties and volatile compounds during the spontaneous fermentation of Cabernet Sauvignon (Vitis vinifera L.) wine. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JUN 15 2022, vol. 163. Dostupné na: https://doi.org/10.1016/j.lwt.2022.113529, Registrované v: WOS
5. [1.2] PORTILLO, M. Carmen - MAS, Albert. Microbiological control of wine production. In Improving Sustainable Viticulture and Winemaking Practices, 2022-01-01, pp. 239-258. Dostupné na: https://doi.org/10.1016/B978-0-323-85150-3.00024-4, Registrované v: SCOPUS

ADCA76 GODÁNY, Andrej - VIDOVÁ, Barbora - JANEČEK, Štefan. The unique glycoside hydrolase family 77 amylomaltase from Borrelia burgdorferi with only catalytic triad conserved. In FEMS Microbiology Letters, 2008, vol. 284, p. 84-91. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2008.01191.x

Citácie:
1. [1.1] JUNG, Jong-Hyun - HONG, Seungpyo - JEON, Eun Jung - KIM, Min-Kyu - SEO, Dong-Ho - WOO, Eui-Jeon - HOLDEN, James F. - PARK, Cheon-Seok. Acceptor dependent catalytic properties of GH57 4-a-glucanotransferase from Pyrococcus sp. ST04. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.1016675, Registrované v: WOS
2. [1.1] KRUSONG, Kuakarun - ISMAIL, Abbas - WANGPAIBOON, Karan - PONGSAWASDI, Piamsook. Production of Large-Ring Cyclodextrins by Amylomaltases. In MOLECULES, 2022, vol. 27, no. 4, pp. Dostupné na: https://doi.org/10.3390/molecules27041446, Registrované v: WOS
3. [1.1] NAKAPONG, Santhana - TUMHOM, Suthipapun - KAULPIBOON, Jarunee - PONGSAWASDI, Piamsook. Heterologous expression of 4 alpha-glucanotransferase: overproduction and properties for industrial applications. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, 2022, vol. 38, no. 2, pp. ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-021-03220-1, Registrované v: WOS

ADCA77 GODOČÍKOVÁ, Jana - ZÁMOCKÝ, Marcel - BUČKOVÁ, Mária - OBINGER, C. - POLEK, Bystrík. Molecular diversity of katG genes in the soil bacteria Comamonas. In Archives of Microbiology, 2010, vol. 192, no. 3, p. 175-184. (2009: 1.927 - IF, Q3 - JCR, 1.036 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-009-0541-4

Citácie:
1. [1.2] YANG, Tao - JIA, Xiaojun - QIN, Xiaomeng - ZHAO, Yuan - TIAN, Xueping - DENG, Rong - HUANG, Jun. Screening of a fungus of Aspergillus fumigatus strain F7 and determination of mechanisms related to cellulose degradation and temperature adaptation. In Chinese Journal of Applied and Environmental Biology, 2022-01-01, 28, 1, pp. 190-200. ISSN 1006687X. Dostupné na: https://doi.org/10.19675/j.cnki.1006-687x.2021.03001, Registrované v: SCOPUS

ADCA78 GODOČÍKOVÁ, Jana - BUGÁROVÁ, Veronika - KAST, C. - MAJTÁN, Viktor - MAJTÁN, Juraj**. Antibacterial potential of Swiss honeys and characterisation of their bee-derived bioactive compounds. In Journal of the Science of Food and Agriculture, 2020, vol. 100, p. 335-342. (2019: 2.614 - IF, Q1 - JCR, 0.718 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0022-5142. Dostupné na: https://doi.org/10.1002/jsfa.10043

Citácie:
1. [1.1] GODERSKA, K. Properties of bee honeys and respective analytical methods. In FOOD ANALYTICAL METHODS. ISSN 1936-9751, JUN 2022, vol. 15, no. 6, p. 1720-1735., Registrované v: WOS
2. [1.1] MEZNARIC, S. - KARACONJI, I.B. - CRNKOVIC, G. - LESAR, A. - PAVLESIC, T. - VUCKOVIC, D. - GOBIN, I. Combined Inhibitory Effect of Fir (Abies alba Mill.) Honeydew Honey and Probiotic Bacteria Lactiplantibacillus plantarum on the Growth of Salmonella enterica Serotype Typhimurium. In ANTIBIOTICS-BASEL. ISSN 2079-6382, FEB 2022, vol. 11, no. 2., Registrované v: WOS
3. [1.1] STAVROPOULOU, E. - VOIDAROU, C. - ROZOS, G. - VAOU, N. - BARDANIS, M. - KONSTANTINIDIS, T. - VRIONI, G. - TSAKRIS, A. Antimicrobial Evaluation of Various Honey Types against Carbapenemase-Producing Gram-Negative Clinical Isolates. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAR 2022, vol. 11, no. 3., Registrované v: WOS

ADCA79 GÜNDOGDU, M.E. - KAWAI, Y. - PAVLENDOVÁ, Naďa - OGASAWARA, N. - ERRINGTON, J. - SCHEFFERS, D.J. - HAMOEN, L.W. Large ring polymers align FtsZ polymers for normal septum formation. In EMBO journal : European Molecular Biology Organization, 2011, vol. 30, p. 617–626. (2010: 10.124 - IF, Q1 - JCR, 9.481 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current

Contents). ISSN 0261-4189. Dostupné na: https://doi.org/10.1038/emboj.2010.345

Citácie:

1. [1.1] CORRALES-GUERRERO, L. - STEINCHEN, W. - RAMM, B. - MüCKSCH, J. - ROSUM, J. - REFES, Y. - HEIMERL, T. - BANGE, G. - SCHWILLE, P. - THANBICHLER, M. MipZ caps the plus-end of FtsZ polymers to promote their rapid disassembly. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, DEC 5 2022, vol. 119, no. 50. Dostupné na: https://doi.org/10.1073/pnas.2208227119, Registrované v: WOS

2. [1.1] MILLER, A.K. - HERMAN, J.K. RefZ and Noc Act Synthetically to Prevent Aberrant Divisions during Bacillus subtilis Sporulation. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, JUN 21 2022, vol. 204, no. 6. Dostupné na: https://doi.org/10.1128/jb.00023-22, Registrované v: WOS

3. [1.1] SHINN, M.K. - COHAN, M.C. - BULLOCK, J.L. - RUFF, K.M. - LEVIN, P.A. - PAPPU, R.V. Connecting sequence features within the disordered C-terminal linker of Bacillus subtilis FtsZ to functions and bacterial cell division. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, OCT 18 2022, vol. 119, no. 42. Dostupné na: https://doi.org/10.1073/pnas.2211178119, Registrované v: WOS

4. [1.1] ZHANG, C. - LIU, W.J. - DENG, J. - MA, S.J. - CHANG, Z.W. - YANG, J. Structural Insights into the Interaction between Bacillus subtilis SepF Assembly and FtsZ by Solid-State NMR Spectroscopy. In JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, JUL 21 2022, vol. 126, no. 28, p. 5219-5230. Dostupné na: https://doi.org/10.1021/acs.jpcb.2c02810, Registrované v: WOS

ADCA80 HADŽEGA, Dominik - MINÁRIK, G. - KARABA, Marián - KALAVSKA, K. - BENCA, Juraj - ČIERNIKOVÁ, Soňa - SEDLÁČKOVÁ, T. - NEMCOVÁ, Petra - BOHÁČ, M. - PINDAK, D. - KĽUČÁR, Ľuboš** - MEGO, M. Uncovering microbial composition in human breast cancer primary tumour tissue using transcriptomic RNA-seq. In International Journal of Molecular Sciences, 2021, vol. 22, no. 9058. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22169058

Citácie:

1. [1.1] DI MODICA, M. - ARLOTTA, V. - SFONDRINI, L. - TAGLIABUE, E. - TRIULZI, T. The Link Between the Microbiota and HER2+Breast Cancer: The New Challenge of Precision Medicine. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, JUL 13 2022, vol. 12., Registrované v: WOS

2. [1.1] ZHANG, J. - XIE, Q.Q. - HUO, X.F. - LIU, Z.L. - DA, M. - YUAN, M.X. - ZHAO, Y. - SHEN, G.S. Impact of intestinal dysbiosis on breast cancer metastasis and progression. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, NOV 7 2022, vol. 12., Registrované v: WOS

ADCA81 HAJNICKÁ, Valéria - VANČOVÁ, Iveta - KOCÁKOVÁ, Pavlína - SLOVÁK, Mirko - GAŠPERÍK, Juraj - SLÁVIKOVÁ, Monika - HAILS, R.S. - LABUDA, Milan - NUTTALL, Patricia A. Manipulation of host cytokine network by ticks: a potential gateway for pathogen transmission. In Parasitology, 2005, vol. 130, no. 3, p. 333-342. (2004: 1.685 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0031-1820. Dostupné na: https://doi.org/10.1017/S0031182004006535

Citácie:

1. [2.1] STANKO, Michal - DERDAKOVA, Marketa - SPITALSKA, Eva - KAZIMIROVA, Maria. Ticks and their epidemiological role in Slovakia: from the past till present. In BIOLOGIA, 2022, vol. 77, no. 6, pp. 1575-1610. ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00845-3, Registrované v: WOS

ADCA82 HAJNICKÁ, Valéria - KOCÁKOVÁ, Pavlína - SLÁVIKOVÁ, Monika - SLOVÁK, Mirko - GAŠPERÍK, Juraj - FUCHSBERGER, Norbert - NUTTALL, Patricia A. Anti-interleukin 8 activity of tick salivary gland extracts. In Parasite Immunology, 2001, vol. 23 no. 9, p. 483-489. (2000: 2.000 - IF, karentované - CCC). (2001 - Current Contents). Dostupné na: https://doi.org/10.1046/j.1365-3024.2001.00403.x

Citácie:

1. [1.1] SCHOEN, Michael P. The tick and I: Parasite-host interactions between ticks and humans. In JOURNAL DER DEUTSCHEN DERMATOLOGISCHEN GESELLSCHAFT, 2022, vol. 20, no. 6, pp. 818-851. ISSN 1610-0379. Dostupné na: https://doi.org/10.1111/ddg.14821, Registrované v: WOS

2. [1.2] SCHÖN, Michael P. Die Zecke und ich: Parasiten-Wirt-Interaktionen zwischen Zecken und Menschen. In JDDG Journal of the German Society of Dermatology, 2022-06-01, 20, 6, pp. 818-855. ISSN 16100379. Dostupné na: https://doi.org/10.1111/ddg.14821_g, Registrované v: SCOPUS

3. [1.2] STANKO, Michal - DERDÁKOVÁ, Markéta - ŠPITALSKÁ, Eva - KAZIMÍROVÁ, Mária. Ticks and their epidemiological role in Slovakia: from the past till present. In Biologia,

2022-06-01, 77, 6, pp. 1575-1610. ISSN 00063088. Available on: https://doi.org/10.1007/s11756-021-00845-3, Registrované v: SCOPUS

ADCA83 HALGAŠOVÁ, Nora - MESAROSOVA, I. - BUKOVSKÁ, Gabriela. Identification of a bifunctional primase-polymerase domain of corynephage BFK20 replication protein gp43. In Virus Research, 2012, vol. 163, p. 454-460. (2011: 2.941 - IF, Q2 - JCR, 1.271 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0168-1702. Dostupné na: https://doi.org/10.1016/j.virusres.2011.11.005

Citácie:

1. [1.1] CHMIELEWSKA-JEZNACH, Magdalena - STECZKIEWICZ, Kamil - KOBYLECKI, Kamil - BARDOWSKI, Jacek K. - SZCZEPANKOWSKA, Agnieszka K. An Adenosine Triphosphate- Dependent 5 ';-3 '; DNA Helicase From sk1-Like Lactococcus lactis F13 Phage. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.840219, Registrované v: WOS

ADCA84 HALGAŠOVÁ, Nora - UGORČÁKOVÁ, Jana - GEROVÁ, Martina - TIMKO, Jozef - BUKOVSKÁ, Gabriela. Isolation and characterization of bacteriophage BP from Paenibacillus polymyxa CCM 7400. In FEMS Microbiology Letters, 2010, vol. 305, p. 128-135. (2009: 2.199 - IF, Q3 - JCR, 1.130 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2010.01908.x

Citácie:

1. [1.1] BEDNAREK, Agnieszka - CENA, Agata - IZAK, Wioleta - BIGOS, Joanna - LOBOCKA, Malgorzata. Functional Dissection of P1 Bacteriophage Holin-like Proteins Reveals the Biological Sense of P1 Lytic System Complexity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 8, pp. Dostupné na: https://doi.org/10.3390/ijms23084231, Registrované v: WOS

2. [1.1] NAKONIECZNA, Aleksandra - RUTYNA, Pawel - FEDOROWICZ, Magdalena - KWIATEK, Magdalena - MIZAK, Lidia - LOBOCKA, Malgorzata. Three Novel Bacteriophages, J5a, F16Ba, and z1a, Specific for Bacillus anthracis, Define a New Clade of Historical Wbeta Phage Relatives. In VIRUSES-BASEL, 2022, vol. 14, no. 2, pp. Dostupné na: https://doi.org/10.3390/v14020213, Registrované v: WOS

ADCA85 HALGAŠOVÁ, Nora - BUKOVSKÁ, Gabriela - UGORČÁKOVÁ, Jana - TIMKO, Jozef - KORMANEC, Ján. The Brevibacterium flavum sigma factor SigB has a role in the environmental stress response. In FEMS Microbiology Letters, 2002, vol. 216, p. 77-84. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(02)00994-1

Citácie:

1. [1.1] STEPANEK, Vaclav - DOSTALOVA, Hana - BUSCHE, Tobias - BLUMENSTEIN, Jan - GRULICH, Michal - PLASIL, Lukas - RUCKA, Lenka - NESVERA, Jan - PATEK, Miroslav. Sigma regulatory network in Rhodococcus erythropolis CCM2595. In FEMS MICROBIOLOGY LETTERS, 2022, vol. 369, no. 1, pp. ISSN 0378-1097. Dostupné na: https://doi.org/10.1093/femsle/fnac014, Registrované v: WOS

2. [1.2] BUSCHE, Tobias - DOSTÁLOVÁ, Hana - RUCKÁ, Lenka - HOLÁTKO, Jiří - BARVÍK, Ivan - ŠTĚPÁNEK, Václav - PÁTEK, Miroslav - KALINOWSKI, Jörn. Overlapping SigH and SigE sigma factor regulons in Corynebacterium glutamicum. In Frontiers in Microbiology, 2022-01-01, 13, pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.1059649, Registrované v: SCOPUS

ADCA86 HALGAŠOVÁ, Nora - KRAJČÍKOVÁ, Daniela - KRAUS, Daniel - BUKOVSKÁ, Gabriela**. The helicase core accessory regions of the phage BFK20 DnaB-like helicase gp43 significantly affect its activity, oligomeric state and DNA binding properties. In Virology, 2021, vol. 558, p. 96-109. (2020: 3.616 - IF, Q3 - JCR, 1.389 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0042-6822. Dostupné na: https://doi.org/10.1016/j.virol.2021.02.016

Citácie:

1. [1.1] CHEN, J.Y. - GISSENDANNER, C.R. - TIKHE, C.V. - LI, H.F. - SUN, Q. - HUSSENEDER, C. Genomics and Geographic Diversity of Bacteriophages Associated With Endosymbionts in the Guts of Workers and Alates of Coptotermes Species (Blattodea: Rhinotermitidae). In FRONTIERS IN ECOLOGY AND EVOLUTION. ISSN 2296-701X, MAY 27 2022, vol. 10., Registrované v: WOS

ADCA87 HAN, H. - ROUND, E. - SCHUBERT, R. - MAKROCZYOVÁ, Jana - BARÁK, Imrich - HAJDU, Janos**. The XBI BioLab for life science experiments at the European XFEL. In Journal of Applied Crystallography, 2021, vol. 54, p. 7–21. (2020: 3.304 - IF, Q2 - JCR, 1.429 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0021-8898. Dostupné na: https://doi.org/10.1107/S1600576720013989

Citácie:

1. [1.1] DOPPLER, D. - RABBANI, M.T. - LETRUN, R. - VILLARREAL, J.C. - KIM, D.H. - GANDHI, S. - EGATZ-GOMEZ, A. - SONKER, M. - CHEN, J. - KOUA, F.H.M. - YANG, J. - YOUSSEF, M. - MAZALOVA, V. - BAJT, S. - SHELBY, M.L. - COLEMAN, M.A. - WIEDORN,

M.O. - KNOSKA, J. - SCHON, S. - SATO, T. - HUNTER, M.S. - HOSSEINIZADEH, A. - KUPTIZ, C. - NAZARI, R. - ALVAREZ, R.C. - KARPOS, K. - ZAARE, S. - DOBSON, Z. - DISCIANNO, E. - ZHANG, S.J. - ZOOK, J.D. - BIELECKI, J. - DE WIJN, R. - ROUND, A.R. - VAGOVIC, P. - KLOOS, M. - VAKILI, M. - KETAWALA, G.K. - STANDER, N.E. - OLSON, T.L. - MORIN, K. - MONDAL, J. - NGUYEN, J. - MEZA-AGUILAR, J.D. - KODIS, G. - VAIANA, S. - MARTIN-GARCIA, J.M. - MARIANI, V. - SCHWANDER, P. - SCHMIDT, M. - MESSERSCHMIDT, M. - OURMAZD, A. - ZATSEPIN, N. - WEIERSTALL, U. - BRUCE, B.D. - MANCUSO, A.P. - GRANT, T. - BARTY, A. - CHAPMAN, H.N. - FRANK, M. - FROMME, R. - SPENCE, J.C.H. - BOTHA, S. - FROMME, P. - KIRIAN, R.A. - ROS, A. Co-flow injection for serial crystallography at X-ray free-electron lasers. In JOURNAL OF APPLIED CRYSTALLOGRAPHY. ISSN 1600-5767, FEB 2022, vol. 55, 1, p. 1-13., Registrované v: WOS
2. [1.1] NIEBLING, S. - VEITH, K. - VOLLMER, B. - LIZARRONDO, J. - BURASTERO, O. - SCHILLER, J. - GARCIA, A.S. - LEWE, P. - SEURING, C. - WITT, S. - GARCIA-ALAI, M. Biophysical Screening Pipeline for Cryo-EM Grid Preparation of Membrane Proteins. In FRONTIERS IN MOLECULAR BIOSCIENCES. JUN 23 2022, vol. 9., Registrované v: WOS
3. [1.1] STELLATO, F. - ANANIA, M.P. - BALERNA, A. - BOTTICELLI, S. - CORENO, M. - COSTA, G. - GALLETTI, M. - FERRARIO, M. - MARCELLI, A. - MINICOZZI, V. - MORANTE, S. - POMPILI, R. - ROSSI, G. - SHPAKOV, V. - VILLA, F. - CIANCHI, A. Plasma-Generated X-ray Pulses: Betatron Radiation Opportunities at EuPRAXIA@SPARC_LAB. In CONDENSED MATTER. ISSN 2410-3896, MAR 2022, vol. 7, no. 1., Registrované v: WOS

ADCA88 HARTMANN, T. - ZHANG, B. - BARONIAN, G. - SCHULTHESS, B. - HOMEROVÁ, Dagmar - GRUBMULLER, S. - KUTZNER, E. - GAUPP, R. - BERTRAM, R. - POWERS, R. - EISENREICH, W. - KORMANEC, Ján - HERRMANN, M. - MOLLE, V. - SOMERVILLE, G.A. - BISCHOFF, M. Catabolite control protein E (CcpE) is a LysR-type transcriptional regulator of TCA cycle activity in Staphylococcus aureus. In Journal of Biological Chemistry, 2013, vol. 288, p. 36116-36128. (2012: 4.651 - IF, Q1 - JCR, 3.396 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M113.516302

Citácie:

1. [1.1] CHEN, Q.L. - YANG, X.K. - MENG, Q. - ZHAO, L.L. - YUAN, Y.X. - CHI, W. - HE, L. - SHI, K. - LIU, S.W. Integrative multiomics analysis of the acid stress response of Oenococcus oeni mutants at different growth stages. In FOOD MICROBIOLOGY. ISSN 0740-0020, APR 2022, vol. 102. Dostupné na: https://doi.org/10.1016/j.fm.2021.103905, Registrované v: WOS
2. [1.1] TURNER, A.B. - GERNER, E. - FIRDAUS, R. - ECHEVERZ, M. - WERTHEN, M. - THOMSEN, P. - ALMQVIST, S. - TROBOS, M. Role of sodium salicylate in Staphylococcus aureus quorum sensing, virulence, biofilm formation and antimicrobial susceptibility. In FRONTIERS IN MICROBIOLOGY. AUG 1 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.931839, Registrované v: WOS

ADCA89 HAVALOVÁ, Henrieta* - ONDROVIČOVÁ, Gabriela* - STOJKOVIČOVÁ, Barbora - BAUER, Jacob - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial HSP70 chaperone system - the influence of post-translational modifications and involvement in human diseases. In International Journal of Molecular Sciences, 2021, vol. 22, no. 8077. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22158077

Citácie:

1. [1.1] BAHR, T. - KATURI, J. - LIANG, T. - BAI, Y.D. Mitochondrial chaperones in human health and disease. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, FEB 1 2022, vol. 179, p. 363-374., Registrované v: WOS
2. [1.1] FU, X. - LIU, H. - LIU, J. - DISANTO, M.E. - ZHANG, X.H. The Role of Heat Shock Protein 70 Subfamily in the Hyperplastic Prostate: From Molecular Mechanisms to Therapeutic Opportunities. In CELLS. JUL 2022, vol. 11, no. 13., Registrované v: WOS
3. [1.1] HASLEM, L. - HAYS, J.M. - HAYS, F.A. p66Shc in Cardiovascular Pathology. In CELLS. JUN 2022, vol. 11, no. 11., Registrované v: WOS
4. [1.1] MEIDINNA, H.N. - SHEFRIN, S. - SARI, A.N. - ZHANG, H.Y. - DHANJAL, J.K. - KAUL, S.C. - SUNDAR, D. - WADHWA, R. Identification of a new member of Mortaparib class of inhibitors that target mortalin and PARP1. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, SEP 12 2022, vol. 10., Registrované v: WOS
5. [1.1] SONG, B.H. - SHEN, S.Y. - FU, S.Y. - FU, J.J. HSPA6 and its role in cancers and other diseases. In MOLECULAR BIOLOGY REPORTS. ISSN 0301-4851, NOV 2022, vol. 49, no. 11, p. 10565-10577., Registrované v: WOS
6. [1.1] SONKODI, B. Psoriasis, Is It a Microdamage of Our "Sixth Sense"? A Neurocentric View. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2022, vol. 23, no. 19., Registrované v: WOS

ADCA90 HLEBA, Lukáš - CHAROUSOVÁ, I. - CISAROVÁ, M. - KOVACIK, A. - KORMANEC, Ján -

BOŽÍK, M. - JAVOREKOVÁ, S. Rapid identification of Streptomyces tetracycline producers by MALDI-TOF mass spectrometry. In Journal of Environmental Science and Health, Part A, 2018, vol. 53, p. 1083-1093. (2017: 1.561 - IF, Q3 - JCR, 0.508 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1093-4529. Dostupné na: https://doi.org/10.1080/10934529.2018.1474581

Citácie:

1. [1.1] HUANG, M.Q. - TONG, C.L. A dual-emission ratiometric fluorescence probe for highly selective and simultaneous detection of tetracycline and ferric ions in environmental water samples based on a boron-doped carbon quantum dot/CdTe-Eu<SUPo+</SUP> composite. In ENVIRONMENTAL SCIENCE-NANO. ISSN 2051-8153, MAY 19 2022, vol. 9, no. 5, p. 1712-1723. Dostupné na: https://doi.org/10.1039/d2en00110a, Registrované v: WOS

2. [1.1] SHI-CHENG, L. - MING-HUI, L. - ZI-LONG, C. - XIN-HAI, Z. Analysis of Nonpolar Polymers by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. In CHINESE JOURNAL OF ANALYTICAL CHEMISTRY. ISSN 0253-3820, JAN 2022, vol. 50, no. 1, p. 82-91. Dostupné na: https://doi.org/10.19756/j.issn.0253-3820.210593, Registrované v: WOS

3. [1.1] SOUMEYA, S. - ALLAOUEDDINE, B. - HOCINE, A.K. Biodegradation of used motor oil by Streptomyces ginkgonis KM-1-2, isolated from soil polluted by waste oils in the region of Azzaba (Skikda-Algeria). In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, APR 10 2022, vol. 349, p. 1-11. Dostupné na: https://doi.org/10.1016/j.jbiotec.2022.03.006, Registrované v: WOS

ADCA91 HNÍZDA, A. - MAJTÁN, Tomáš - LIU, L. - PEY, A.L. - CARPENTER, J.F. - KODÍČEK, M. - KOŽICH, V. - KRAUS, J.P. Conformational properties of nine purified cystathionine â-synthase mutants. In Biochemistry, 2012, vol. 51, p. 4755-4763. (2011: 3.422 - IF, Q2 - JCR, 2.187 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-2960. Dostupné na: https://doi.org/10.1021/bi300435e

Citácie:

1. [1.1] GIL-MARTINEZ, Jon - BERNARDO-SEISDEDOS, Ganeko - MATO, Jose M. - MILLET, Oscar. The use of pharmacological chaperones in rare diseases caused by reduced protein stability. In PROTEOMICS, 2022, vol. 22, no. 23-24, pp. ISSN 1615-9853. Dostupné na: https://doi.org/10.1002/pmic.202200222, Registrované v: WOS

ADCA92 HOFBAUEROVÁ, Monika, Benkovičová - KISOVÁ, Zuzana - BUČKOVÁ, Mária - MAJKOVÁ, Eva - ŠIFFALOVIČ, Peter - PANGALLO, Domenico**. The antifungal properties of super-hydrophobic nanoparticles and essential oils on different material surfaces. In Coatings, 2019, vol. 9, no. 3, p. 176. (2018: 2.330 - IF, Q2 - JCR, karentované - CCC). (2019 - Current Contents). ISSN 2079-6412. Dostupné na: https://doi.org/10.3390/coatings9030176

Citácie:

1. [1.1] DE SOUZA, Rafael Limongi - BARROS DANTAS, Amanda Gabrielle - MELO, Camila de Oliveira - FELICIO, Isabela Motta - OLIVEIRA, Elquio Eleamen. Nanotechnology as a tool to improve the biological activity of carvacrol: A review. In JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, 2022, vol. 76. ISSN 1773-2247. Dostupné na: https://doi.org/10.1016/j.jddst.2022.103834, Registrované v: WOS

2. [1.1] MENICUCCI, Felicia - PALAGANO, Eleonora - MICHELOZZI, Marco - CENCETTI, Gabriele - RAIO, Aida - BACCHI, Alessia - MAZZEO, Paolo P. - CUZMAN, Oana A. - SIDOTI, Alessandro - GUARINO, Salvatore - BASILE, Sara - RICCOBONO, Ornella - PERI, Ezio - VIZZA, Francesco - IENCO, Andrea. Effects of trapped-into-solids volatile organic compounds on paper biodeteriogens. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 2022, vol. 174. ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105469, Registrované v: WOS

ADCA93 HOLIČ, Roman - ŠIMOVÁ, Zuzana - ASHLIN, T. - PEVALA, Vladimír - POLONCOVÁ, Katarína - TAHOTNÁ, Dana - KUTEJOVÁ, Eva - COCKCROFT, Samshad - GRIAČ, Peter. Phosphatidylinositol binding of Saccharomyces cerevisiae Pdr16p represents an essential feature of this lipid transfer protein to provide protection against azole antifungals. In Biochimica et Biophysica Acta : molecular cell biology of lipids, 2014, vol. 1841, p. 1483–1490. (2013: 4.495 - IF, Q1 - JCR, 2.181 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1388-1981. Dostupné na: https://doi.org/10.1016/j.bbalip.2014.07.014

Citácie:

1. [1.1] CHEN, L. - TAN, L.C. - IM, Y.J. Structural basis of ligand recognition and transport by Sfh2, a yeast phosphatidylinositol transfer protein of the Sec14 superfamily. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, JUL 1 2022, vol. 78, 7, p. 853-864. Dostupné na: https://doi.org/10.1107/S2059798322005666, Registrované v: WOS

2. [1.1] KANOVICOVA, P. - CERMAKOVA, P. - KUBALOVA, D. - BABELOVA, L. - VESELA, P. - VALACHOVIC, M. - ZAHUMENSKY, J. - HORVATH, A. - MALINSKY, J. - BALAZOVA, M. Blocking phosphatidylglycerol degradation in yeast defective in cardiolipin remodeling results in

a new model of the Barth syndrome cellular phenotype. In JOURNAL OF BIOLOGICAL CHEMISTRY. JAN 2022, vol. 298, no. 1. Dostupné na: https://doi.org/10.1016/j.jbc.2021.101462, Registrované v: WOS

ADCA94 HOLMES, Susannah - KIRKWOOD, Henry J. - BEAN, Richard - GIEWEKEMEYER, Klaus - MARTIN, Andrew V. - BARÁK, Imrich - ABBEY, Brian** - DARMANIN, Connie**. Megahertz pulse trains enable multi-hit serial femtosecond crystallography experiments at X-ray free electron lasers. In Nature Communications, 2022, vol. 13, art. no. 4708. (2021: 17.694 - IF, Q1 - JCR, 4.846 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-022-32434-6

Citácie:

1. [1.1] SONKER, M. - DOPPLER, D. - EGATZ-GOMEZ, A. - ZAARE, S. - RABBANI, M.T. - MANNA, A. - VILLARREAL, J.C. - NELSON, G. - KETAWALA, G.K. - KARPOS, K. - ALVAREZ, R.C. - NAZARI, R. - THIFAULT, D. - JERNIGAN, R. - OBERTHUR, D. - HAN, H.J. - SIERRA, R. - HUNTER, M.S. - BATYUK, A. - KUPITZ, C.J. - SUBLETT, R.E. - POITEVIN, F. - LISOVA, S. - MARIANI, V. - TOLSTIKOVA, A. - BOUTET, S. - MESSERSCHMIDT, M. - MEZA-AGUILAR, J.D. - FROMME, R. - MARTIN-GARCIA, J.M. - BOTHA, S. - FROMME, P. - GRANT, T.D. - KIRIAN, R.A. - ROS, A. Electrically stimulated droplet injector for reduced sample consumption in serial crystallography. In BIOPHYSICAL REPORTS. ISSN 2667-0747, DEC 14 2022, vol. 2, no. 4., Registrované v: WOS

ADCA95 HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - KORMANEC, Ján. Regulation of an alternative sigma factor SigI by a partner switching mechanism with an anti-sigma factor PrsI and an anti-anti-sigma factor ArsI in Streptomyces coelicolor A3(2). In Gene, 2012, vol. 492, p. 71-80. (2011: 2.341 - IF, Q3 - JCR, 1.163 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2011.11.011

Citácie:

1. [1.1] CLARA, L. - DAVID, C. - LAILA, S. - VIRGINIE, R. - MARIE-JOELLE, V. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2022, vol. 23, no. 23., Registrované v: WOS

2. [1.1] OTANI, H. - MOUNCEY, N.J. RIViT-seq enables systematic identification of regulons of transcriptional machineries. In NATURE COMMUNICATIONS. JUN 17 2022, vol. 13, no. 1., Registrované v: WOS

3. [1.1] OTANI, H. - UDWARY, D.W. - MOUNCEY, N.J. Comparative and pangenomic analysis of the genus Streptomyces. In SCIENTIFIC REPORTS. ISSN 2045-2322, NOV 7 2022, vol. 12, no. 1., Registrované v: WOS

ADCA96 HOMEROVÁ, Dagmar - ŠURDOVÁ, Katarína - MIKUSOVA, K. - KORMANEC, Ján. Identification of promoters recognized by RNA polymerase containing Mycobacterium tuberculosis stress-response sigma factor sigmaF . In Archives of Microbiology : international journal, 2007, vol. 187, no. 3, pp.185-197. (2006: 1.820 - IF, Q3 - JCR, 1.131 - SJR, Q1 - SJR). ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-006-0185-6

Citácie:

1. [1.1] BLUMENSTEIN, Jan - RADISCH, Robert - STEPANEK, Vaclav - GRULICH, Michal - DOSTALOVA, Hana - PATEK, Miroslav. Identification of Rhodococcus erythropolis Promoters Controlled by Alternative Sigma Factors Using In Vivo and In Vitro Systems and Heterologous RNA Polymerase. In CURRENT MICROBIOLOGY, 2022, vol. 79, no. 2, pp. ISSN 0343-8651. Dostupné na: https://doi.org/10.1007/s00284-021-02747-8, Registrované v: WOS

ADCA97 HOMEROVÁ, Dagmar - HALGAŠOVÁ, Lenka - KORMANEC, Ján. Cascade of extracytoplasmic function sigma factors in Mycobacterium tuberculosis: identification of a SigJ-dependent promoter upstream of sigI. In FEMS Microbiology Letters, 2008, vol. 280, p. 120-126. (2007: 2.274 - IF, Q3 - JCR, 1.103 - SJR, Q2 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2007.01054.x

Citácie:

1. [1.1] JIANG, Zheng - ZHUANG, Zengfang - MI, Kaixia. Experimental Evolution Reveals Redox State Modulates Mycobacterial Pathogenicity. In FRONTIERS IN GENETICS, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fgene.2022.758304, Registrované v: WOS

2. [1.1] PANDEY, Parul - DUBEY, Ashutosh P. - MISHRA, Shivangi - SINGH, Vijay Shankar - SINGH, Chhaya - TRIPATHI, Anil K. beta-Lactam Resistance in Azospirillum baldaniorum Sp245 Is Mediated by Lytic Transglycosylase and beta-Lactamase and Regulated by a Cascade of RpoE7 RpoH3 Sigma Factors. In JOURNAL OF BACTERIOLOGY, 2022, vol. 204, no. 4, pp. ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/jb.00010-22, Registrované v: WOS

ADCA98 HOMEROVÁ, Dagmar - BISCHOFF, M. - DUMOLIN, A. - KORMANEC, Ján. Optimization of a two-plasmid system for the identification of promoters recognized by RNA polymerase containing

Staphylococcus aureus alternative sigma factor sigmaB. In FEMS Microbiology Letters, 2004, vol. 232, p. 173-179. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(04)00063-1

Citácie:

1. [1.1] BLUMENSTEIN, Jan - RADISCH, Robert - STEPANEK, Vaclav - GRULICH, Michal - DOSTALOVA, Hana - PATEK, Miroslav. Identification of Rhodococcus erythropolis Promoters Controlled by Alternative Sigma Factors Using In Vivo and In Vitro Systems and Heterologous RNA Polymerase. In CURRENT MICROBIOLOGY, 2022, vol. 79, no. 2, pp. ISSN 0343-8651. Dostupné na: https://doi.org/10.1007/s00284-021-02747-8, Registrované v: WOS

ADCA99 HOMEROVÁ, Dagmar - KNIRSCHOVA, B. - KORMANEC, Ján. Response regulator ChiR regulates expression of Chitinase Gene, chiC, in Streptomyces coelicolor. In Folia Microbiologica, 2002, vol. 47, p. 499-505. (2001: 0.776 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/BF02818788

Citácie:

1. [1.1] SANCHEZ DE LA NIETA, Ricardo - SANTAMARIA, Ramon - DIAZ, Margarita. Two-Component Systems of Streptomyces coelicolor: An Intricate Network to Be Unraveled. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232315085, Registrované v: WOS

ADCA100 HORNIAČKOVÁ, Miroslava - BUČEKOVÁ, Marcela - VALACHOVÁ, Ivana - MAJTÁN, Juraj. Effect of gamma radiation on the antibacterial and antibiofilm activity of honeydew honey. In European Food Research and Technology, 2017, vol. 243, no. 1, p. 81–88. (2016: 1.664 - IF, Q2 - JCR, 0.763 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-016-2725-x

Citácie:

1. [1.1] ALKHALIFAH, D.H.M. GAMMA IRRADIATION AND THERMAL TREATMENTS IN RELATION MICROBIAL STATUS IN ARAB HONEY. In FRESENIUS ENVIRONMENTAL BULLETIN. ISSN 1018-4619, 2021, vol. 30, no. 11, p. 11715-11722., Registrované v: WOS

2. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS

3. [1.2] MOAYYER, Tahere Abbasi - GHAHHARI, Aziz - RASTEGAR, Tayebeh - MALEK, Fateme - YAZDI, Farzane Rezaei - DAFCHAHI, Kamyar Ghaffari - TAKZAREE, Nasrin. Evaluation of the combined treatment of bone marrow-derived stem cells (BM-MSCs) and restorative lotions containing honey, propolis and aloe vera in the healing of second-degree burn wounds in the animal model. In Tehran University Medical Journal, 2022-06-01, 80, 3, pp. 168-179. ISSN 16831764., Registrované v: SCOPUS

ADCA101 HORVÁTHOVÁ, Viera - JANEČEK, Štefan - STURDIK, E. Amylolytic enzymes: molecular aspects of their properties. In General physiology and biophysics, 2001, vol. 20, p. 7-32. (2000: 0.417 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] FAGHANI, E. - KOLAHI, M. - KAZEMIAN, M. - GOLDSON-BARNABY, A. - RAZZAGHI, M. H. Effect of irrigation regimes on starch biosynthesis pathway, cotton (Gossypium hirsutum) yield and in silico analysis of ADP-glucose-pyrophosphorylase. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, 2022, vol. 19, no. 11, pp. 10809-10830. ISSN 1735-1472. Dostupné na: https://doi.org/10.1007/s13762-022-04281-x, Registrované v: WOS

2. [1.2] COWIESON, Aaron J. - HAAHR, Laerke T. - SKOV, Lars K. Starch- and Protein-Degrading Enzymes in Non-Ruminant Animal Production. In Enzymes in Farm Animal Nutrition, 3rd Edition, 2022-01-01, pp. 89-102. Dostupné na: https://doi.org/10.1079/9781789241563.0006, Registrované v: SCOPUS

3. [1.2] DAS, Sayak - SHERPA, Mingma Thundu - NAJAR, Ishfaq Nabi - THAKUR, Nagendra. Hot and Cold Bacteria of Sikkim: Biodiversity and Enzymology. In Bioprospecting of Enzymes in Industry, Healthcare and Sustainable Environment, 2021-01-01, pp. 269-289. Dostupné na: https://doi.org/10.1007/978-981-33-4195-1_13, Registrované v: SCOPUS

ADCA102 HORVÁTHOVÁ, Viera - GODÁNY, Andrej - STURDIK, E. - JANEČEK, Štefan. Alpha-amylase from Thermococcus hydrothermalis: re-cloning aimed at the improved expression and hydrolysis of corn starch. In Enzyme and Microbial Technology, 2006, vol. 39, p. 1300-1305. (2005: 1.705 - IF, Q2 - JCR, 0.922 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0141-0229. Dostupné na: https://doi.org/10.1016/j.enzmictec.2006.03.016

Citácie:

1. [1.2] TADEVOSYAN, Mane - YEGHIAZARYAN, Sahak - GHEVONDYAN, Diana - SAGHATELYAN, Ani - MARGARYAN, Armine - PANOSYAN, Hovik. Microbial thermostable hydrolases (amylases, lipases, and keratinases) and polymerases: biology and applications. In

Extremozymes and their Industrial Applications, 2022-01-01, pp. 177-204. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00007-1, Registrované v: SCOPUS

ADCA103 HOSTINOVÁ, Eva - JANEČEK, Štefan - GAŠPERÍK, Juraj. Gene sequence, bioinformatics and enzymatic characterization of alpha-amylase from Saccharomycopsis fibuligera KZ. In The protein journal, 2010, vol. 29, p. 355-64. (2009: 1.017 - IF, Q4 - JCR, 0.407 - SJR, Q3 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 1572-3887. Dostupné na: https://doi.org/10.1007/s10930-010-9260-6

Citácie:

1. [1.1] PRONGJIT, Daran - LEKAKARN, Hataikarn - BUNTERNGSOOK, Benjarat - AIEWVIRIYASAKUL, Katesuda - SRITUSNEE, Wipawee - CHAMPREDA, Verawat. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS, 2022, vol. 12, no. 6, pp. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

ADCA104 HOSTINOVÁ, Eva - SOLOVIČOVÁ, A. - DVORSKÝ, Radovan - GAŠPERÍK, Juraj. Molecular cloning and 3D structure prediction of the first raw-starch-degrading glucoamylase without a separate starch-binding domain. In Archives of Biochemistry and Biophysics, 2003, vol. 411, p. 189-195. (2002: 2.606 - IF, karentované - CCC). (2003 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/S0003-9861(03)00003-1

Citácie:

1. [1.1] CHEN, Zhongxiu - WANG, Longbin - SHEN, Yuyu - HU, Dunji - ZHOU, Liying - LU, Fuping - LI, Ming. Improving Thermostability of Chimeric Enzymes Generated by Domain Shuffling Between Two Different Original Glucoamylases. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, 2022, vol. 10, no., pp. ISSN 2296-4185. Dostupné na: https://doi.org/10.3389/fbioe.2022.881421, Registrované v: WOS

ADCA105 HOWE, D. - MELNIČÁKOVÁ, Jana - BARÁK, Imrich - HEINZEN, R.A. Fusogenicity of the Coxiella burnetii Parasitophorous Vacuole. In Annals of the New York Academy of Sciences, 2003, vol. 990, p. 556-562. (2002: 1.682 - IF). ISSN 0077-8923.

Citácie:

1. [1.1] FU, Mengjiao - ZHANG, Jianing - ZHAO, Mingliang - ZHANG, Shan - DAI, Lupeng - OUYANG, Xuan - YU, Yonghui - WEN, Bohai - ZHOU, Dongsheng - SUN, Yansong - JIAO, Jun - XIONG, Xiaolu. Coxiella burnetii Plasmid Effector B Promotes LC3-II Accumulation and Contributes To Bacterial Virulence in a SCID Mouse Model. In INFECTION AND IMMUNITY, 2022, vol. 90, no. 6, pp. ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/iai.00016-22, Registrované v: WOS

2. [1.1] PARK, Donghyun - STEINER, Samuel - SHAO, Meng - ROY, Craig R. - LIU, Jun. Developmental Transitions Coordinate Assembly of the Coxiella burnetii Dot/Icm Type IV Secretion System. In INFECTION AND IMMUNITY, 2022, vol. 90, no. 10, pp. ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/iai.00410-22, Registrované v: WOS

3. [1.2] CLEMENTE, Tatiana M. - GILK, Stacey D. Cholesterol and pathogens. In Cholesterol: From Chemistry and Biophysics to the Clinic, 2022-01-01, pp. 675-714. Dostupné na: https://doi.org/10.1016/B978-0-323-85857-1.00018-3, Registrované v: SCOPUS

ADCA106 HOWE, D. - MELNIČÁKOVÁ, Jana - BARÁK, Imrich - HEINZEN, R.A. Maturation of the Coxiella burnetii parasitophorous vacuole requires bacterial protein synthesis but not replication. In Cellular microbiology. - Veľká Británia : Blackwell Synergy, 2003, vol. 5, no. 7, p. 469 - 480. (2002: 4.600 - IF). ISSN 1462-5814. Dostupné na: https://doi.org/10.1046/j.1462-5822.2003.00293.x

Citácie:

1. [1.1] ANASTACIO, S. - DE SOUSA, S.R. - SAAVEDRA, M.J. - DA SILVA, G.J. Role of Goats in the Epidemiology of Coxiella burnetii. In BIOLOGY-BASEL. DEC 2022, vol. 11, no. 12. Dostupné na: https://doi.org/10.3390/biology11121703, Registrované v: WOS

2. [1.1] FU, M.J. - ZHANG, J.N. - ZHAO, M.L. - ZHANG, S. - DAI, L.P. - OUYANG, X. - YU, Y.H. - WEN, B.H. - ZHOU, D.S. - SUN, Y.S. - JIAO, J. - XIONG, X.L. Coxiella burnetii Plasmid Effector B Promotes LC3-II Accumulation and Contributes To Bacterial Virulence in a SCID Mouse Model. In INFECTION AND IMMUNITY. ISSN 0019-9567, JUN 16 2022, vol. 90, no. 6. Dostupné na: https://doi.org/10.1128/iai.00016-22, Registrované v: WOS

3. [1.1] PARK, D. - STEINER, S. - SHAO, M. - ROY, C.R. - LIU, J. Developmental Transitions Coordinate Assembly of the Coxiella burnetii Dot/Icm Type IV Secretion System. In INFECTION AND IMMUNITY. ISSN 0019-9567, OCT 20 2022, vol. 90, no. 10. Dostupné na: https://doi.org/10.1128/iai.00410-22, Registrované v: WOS

4. [1.1] UNGER, N. - EISERLOH, S. - NOWAK, F. - ZUCHANTKE, S. - LIEBLER-TENORIO, E. - SOBOTTA, K. - SCHNEE, C. - BERENS, C. - NEUGEBAUER, U. Looking Inside Non-Destructively: Label-Free, Raman-Based Visualization of Intracellular Coxiella burnetii. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, MAR 29 2022, vol. 94, no. 12, p. 4988-4996. Dostupné na: https://doi.org/10.1021/acs.analchem.1c04754, Registrované v: WOS

ADCA107 HUMPHREYS, S. - ROWLEY, G. - STEVENSON, A. - ANJUM, M.F. - WOODWARD, M.J. - GILDBERT, S. - KORMANEC, Ján - ROBERTS, M. Role of the two-component regulator CpxAR in the virulence of Salmonella enterica serotype Typhimurium. In Infection and Immunity, 2004, vol. 72, p. 4654. ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/IAI.72.8.4654-4661.2004

Citácie:

1. [1.1] AGANJA, R.P. - SIVASANKAR, C. - HEWAWADUGE, C. - LEE, J.H. Safety assessment of compliant, highly invasive, lipid A-altered, O-antigen-defected Salmonella strains as prospective vaccine delivery systems. In VETERINARY RESEARCH. ISSN 0928-4249, OCT 1 2022, vol. 53, no. 1. Dostupné na: https://doi.org/10.1186/s13567-022-01096-z, Registrované v: WOS

2. [1.1] BANERJEE, G. - QUAN, F.S. - MONDAL, A.K. - SUR, S. - BANERJEE, P. - CHATTOPADHYAY, P. Interrelation between Stress Management and Secretion Systems of Ralstonia solanacearum: An In Silico Assessment. In PATHOGENS. JUL 2022, vol. 11, no. 7. Dostupné na: https://doi.org/10.3390/pathogens11070730, Registrované v: WOS

3. [1.1] FORTNEY, K.R. - SMITH, S.N. - VAN RENSBURG, J.J. - BROTHWELL, J.A. - GARDNER, J.J. - KATZ, B.P. - AHSAN, N. - DUERFELDT, A.S. - MOBLEY, H.L.T. - SPINOLA, S.M. CpxA Phosphatase Inhibitor Activates CpxRA and Is a Potential Treatment for Uropathogenic Escherichia coli in a Murine Model of Infection. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, APR 2022, vol. 10, no. 2. Dostupné na: https://doi.org/10.1128/spectrum.02430-21, Registrované v: WOS

4. [1.1] GAHLOT, D.K. - WAI, S.N. - ERICKSON, D.L. - FRANCIS, M.S. Cpx-signalling facilitates Hms-dependent biofilm formation by Yersinia pseudotuberculosis. In NPJ BIOFILMS AND MICROBIOMES. MAR 29 2022, vol. 8, no. 1. Dostupné na: https://doi.org/10.1038/s41522-022-00281-4, Registrované v: WOS

5. [1.1] GRAVRAND, V. - ARIEY, F. - TERRACOL, L. - POUPET, H. - DOLOY, A. - POYART, C. - MAMMERI, H. Frameshift mutation (690delG) in cpxA contributes to the extensive drug resistance of a Serratia marcescens clinical isolate. In JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. ISSN 0305-7453, MAY 29 2022, vol. 77, no. 6, p. 1611-1616. Dostupné na: https://doi.org/10.1093/jac/dkac089, Registrované v: WOS

6. [1.1] LEE, W. - KIM, E. - ZIN, H. - SUNG, S. - WOO, J. - LEE, M.J. - YANG, S.M. - KIM, S.H. - KIM, S.H. - KIM, H.Y. Genomic characteristics and comparative genomics analysis of Salmonella enterica subsp. enterica serovar Thompson isolated from an outbreak in South Korea. In SCIENTIFIC REPORTS. ISSN 2045-2322, NOV 29 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-22168-2, Registrované v: WOS

7. [1.1] SONG, Y.J. - KE, Y.T. - KANG, M. - BAO, R. Function, molecular mechanisms, and therapeutic potential of bacterial HtrA proteins: An evolving view. In COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL. ISSN 2001-0370, 2022, vol. 20, p. 40-49. Dostupné na: https://doi.org/10.1016/j.csbj.2021.12.004, Registrované v: WOS

ADCA108 CHEBEŇOVÁ-TURCOVSKÁ, V. - ŽENIŠOVÁ, K. - KUCHTA, T. - PANGALLO, Domenico - BREŽNÁ, Barbara. Culture-independent detection of microorganisms in traditional Slovakian bryndza cheese. In International journal of food microbiology, 2011, vol. 150, p. 73-78. (2010: 3.143 - IF, Q1 - JCR, 1.610 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2011.07.020

Citácie:

1. [1.1] GULEY, Ziba - FALLICO, Vincenzo - CABRERA-RUBIO, Raul - COTTER, Paul D. - BERESFORD, Tom. Identification of Streptococcus infantarius subsp. infantarius as the species primarily responsible for acid production in Izmir Brined Tulum Cheese from the Aegean Region of Turkiye. In FOOD RESEARCH INTERNATIONAL, 2022, vol. 160, no., pp. ISSN 0963-9969. Dostupné na: https://doi.org/10.1016/j.foodres.2022.111707, Registrované v: WOS

2. [1.1] KOCHETKOVA, Tatiana - GRABARNIK, Ilya P. - KLYUKINA, Alexandra A. - ZAYULINA, Kseniya S. - ELIZAROV, Ivan M. - SHESTAKOVA, Oksana O. - GAVIROVA, Liliya A. - MALYSHEVA, Anastasia D. - SHCHERBAKOVA, Polina A. - BARKHUTOVA, Darima D. - KARNACHUK, Olga - SHESTAKOV, Andrey - ELCHENINOV, Alexander G. - KUBLANOV, Ilya. Microbial Communities of Artisanal Fermented Milk Products from Russia. In MICROORGANISMS, 2022, vol. 10, no. 11, pp. Dostupné na: https://doi.org/10.3390/microorganisms10112140, Registrované v: WOS

3. [2.2] KAČÁNIOVÁ, Miroslava - NAGYOVÁ, Ľudmila - ŠTEFÁNIKOVÁ, Jana - FELSÖCIOVÁ, Soňa - GODOČÍKOVÁ, Lucia - HAŠČÍK, Peter - HORSKÁ, Elena - KUNOVÁ, Simona. THE CHARACTERISTIC OF SHEEP CHEESE "BRYNDZA" FROM DIFFERENT REGIONS OF SLOVAKIA BASED ON MICROBIOLOGICAL QUALITY. In Potravinarstvo Slovak Journal of Food Sciences, 2021-01-01, 14, pp. 69-75. ISSN 13380230. Dostupné na: https://doi.org/10.5219/1239, Registrované v: SCOPUS

ADCA109 CHOTAR, M. - VIDOVÁ, Barbora - GODÁNY, Andrej. Development of specific and rapid detection

of bacterial pathogens in dairy products by PCR. In Folia Microbiologica, 2006, vol. 51, p. 639-646. (2005: 0.918 - IF, Q3 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/BF02931632

Citácie:

1. [1.1] NEMATOLLAHI, Fahimeh - SHOMALI, Tahoora - ABDI-HACHESOO, Bahman - KHODAKARAM-TAFTI, Azizollah. Effect of prophylactic vitamin C administration on the efficiency of florfenicol or sulfadiazine-trimethoprim antimicrobial therapy in chickens with staphylococcal arthritis. In TROPICAL ANIMAL HEALTH AND PRODUCTION, 2022, vol. 54, no. 1, pp. ISSN 0049-4747. Dostupné na: https://doi.org/10.1007/s11250-021-03033-2, Registrované v: WOS

2. [1.1] ZASTEMPOWSKA, Ewa - TWARUZEK, Magdalena - GRAJEWSKI, Jan - LASSA, Henryka. Virulence Factor Genes and Cytotoxicity of Streptococcus agalactiae Isolated from Bovine Mastitis in Poland. In MICROBIOLOGY SPECTRUM, 2022, vol. 10, no. 3, pp. ISSN 2165-0497. Dostupné na: https://doi.org/10.1128/spectrum.02224-21, Registrované v: WOS

ADCA110 CHOVANOVÁ, Katarína - KAMLÁROVÁ, Anna - MARESCH, D. - HARICHOVÁ, Janka - ZÁMOCKÝ, Marcel**. Expression of extracellular peroxidases and catalases in mesophilic and thermophilic Chaetomia in response to environmental oxidative stress stimuli. In Ecotoxicology and environmental safety, 2019, vol. 181, p. 481-490. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0147-6513. Dostupné na: https://doi.org/10.1016/j.ecoenv.2019.06.035

Citácie:

1. [1.1] STOYANCHEVA, G. - DISHLIYSKA, V. - MITEVA-STALEVA, J. - KOSTADINOVA, N. - ABRASHEV, R. - ANGELOVA, M. - KRUMOVA, E. Sequencing and gene expression analysis of catalase genes in Antarctic fungal strain Penicillium griseofulvum P29. In POLAR BIOLOGY. ISSN 0722-4060, MAR 2022, vol. 45, no. 3, p. 437-447., Registrované v: WOS

2. [1.1] XUE, W.J. - CAO, S. - ZHU, J. - LI, W.Y. - LI, J. - HUANG, D.L. - WANG, R.Z. - GAO, Y. Stabilization of cadmium in contaminated sediment based on a nanoremediation strategy: Environmental impacts and mechanisms. In CHEMOSPHERE. ISSN 0045-6535, JAN 2022, vol. 287, 3., Registrované v: WOS

ADCA111 CHRISTIANSEN, C. - ABOU HACHEM, M. - JANEČEK, Štefan - VIKSO-NIELSEN, A. - BLENNOW, A. - SVENSSON, B. The carbohydrate-binding module family 20-diversity, structure, and function. In FEBS Journal, 2009, vol. 276, p. 5006-5029. (2008: 3.139 - IF, Q2 - JCR, 2.095 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2009.07221.x

Citácie:

1. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. - CáRDENAS-CONEJO, Y. - VIRGEN-ORTíZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARíN-TOVAR, Y. - GóMEZ-MANZO, S. - HERNáNDEZ-OCHOA, B. - ROCHA-RAMIREZ, L.M. - ZATARAíN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LóPEZ-MUNGUíA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-021-04569-x, Registrované v: WOS

2. [1.1] HEDIN, N. - VELAZQUEZ, M.B. - BARCHIESI, J. - GOMEZ-CASATI, D.F. - BUSI, M.V. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 363-378. Dostupné na: https://doi.org/10.1007/s11103-021-01190-4, Registrované v: WOS

3. [1.1] KAHAR, U.M. - AB LATIF, N. - AMRAN, S.I. - LIEW, K.J. - GOH, K.M. A Bibliometric Analysis and Review of Pullulan-Degrading Enzymes-Past and Current Trends. In CATALYSTS. FEB 2022, vol. 12, no. 2. Dostupné na: https://doi.org/10.3390/catal12020143, Registrované v: WOS

4. [1.1] MCCORVIE, T.J. - LORIA, P.M. - TU, M. - HAN, S. - SHRESTHA, L. - FROESE, D.S. - FERREIRA, I.M. - BERG, A.P. - YUE, W.W. Molecular basis for the regulation of human glycogen synthase by phosphorylation and glucose-6-phosphate. In NATURE STRUCTURAL & MOLECULAR BIOLOGY. ISSN 1545-9993, JUL 2022, vol. 29, no. 7, p. 628-+. Dostupné na: https://doi.org/10.1038/s41594-022-00799-3, Registrované v: WOS

5. [1.1] MITRA, S. - GUMUSGOZ, E. - MINASSIAN, B.A. Lafora disease: Current biology and therapeutic approaches. In REVUE NEUROLOGIQUE. ISSN 0035-3787, APR 2022, vol. 178, no. 4, p. 315-325. Dostupné na: https://doi.org/10.1016/j.neurol.2021.06.006, Registrované v: WOS

6. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na:

https://doi.org/10.3390/catal12060647, Registrované v: WOS
7. [1.1] YANG, T. - ZHONG, L.L. - JIANG, G.S. - LIU, L. - WANG, P. - ZHONG, Y.X. - YUE, Q.R. - OUYANG, L. - ZHANG, A.Q. - LI, Z.K. - CUI, Z.L. - JIANG, D. - ZHOU, Q. Comparative study on bread quality and starch digestibility of normal and waxy wheat (Triticum aestivum L.) modified by maltohexaose producing α-amylases. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, DEC 2022, vol. 162, A. Dostupné na: https://doi.org/10.1016/j.foodres.2022.112034, Registrované v: WOS

ADCA112 JAMROŠKOVIČ, Ján - PAVLENDOVÁ, Naďa - MUCHOVÁ, Katarína - WILKINSON, A.J. - BARÁK, Imrich. An Oscillating Min system in Bacillus subtilis influences asymmetric septation during sporulation. In Microbiology-SGM, 2012, vol. 158, p. 1972-1981. (2011: 3.061 - IF, Q2 - JCR, 1.659 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.059295-0

Citácie:
1. [1.1] DELBRUCK, Alessia - TRITTEN, Yvette - NANNI, Paolo - HEYDENREICH, Rosa - MATHYS, Alexander. Moderate High-Pressure Superdormancy in Bacillus Spores: Properties of Superdormant Spores and Proteins Potentially Influencing Moderate High-Pressure Germination. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 2022, vol. 88, no. 4, pp. ISSN 0099-2240. Dostupné na: https://doi.org/10.1128/aem.02406-21, Registrované v: WOS

ADCA113 JAMROŠKOVIČ, Ján - SHAO, P.P. - SUVOROVA, E. - BARÁK, Imrich - BERNIER-LATMANI, R. Combined scanning transmission X-ray and electron microscopy for the characterization of bacterial endospores. In FEMS Microbiology Letters, 2014, vol. 358, p. 188-93. (2013: 2.046 - IF, Q3 - JCR, 1.043 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/1574-6968.12539

Citácie:
1. [1.1] XUE, L.J. - CHEN, N. - TONG, S. - YANG, C. - FENG, C.P. Bioelectrochemical reactor improved by assembling anode with rice husk for treating nitrate-contaminated groundwater. In JOURNAL OF WATER PROCESS ENGINEERING. ISSN 2214-7144, JUN 2022, vol. 47. Dostupné na: https://doi.org/10.1016/j.jwpe.2022.102778, Registrované v: WOS
2. [1.1] XUE, L.J. - CHEN, N. - ZHAO, J.M. - YANG, C. - FENG, C.P. Rice husk-intensified cathode driving bioelectrochemical reactor for remediating nitrate-contaminated groundwater. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, SEP 1 2022, vol. 837. Dostupné na: https://doi.org/10.1016/j.scitotenv.2022.155917, Registrované v: WOS

ADCA114 JANEČEK, Štefan** - MAREČEK, Filip - MACGREGOR, E.A. - SVENSSON, B. Starch-binding domains as CBM families–history, occurrence, structure, function and evolution. In Biotechnology Advances, 2019, vol. 37, iss. 873, no. 107451. (2018: 12.831 - IF, Q1 - JCR, 3.179 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0734-9750. Dostupné na: https://doi.org/10.1016/j.biotechadv.2019.107451

Citácie:
1. [1.1] AHN, W.C. - AN, Y. - SONG, K.M. - PARK, K.H. - LEE, S.J. - OH, B.H. - PARK, J.T. - WOO, E.J. Dimeric architecture of maltodextrin glucosidase (MalZ) provides insights into the substrate recognition and hydrolysis mechanism. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, JAN 1 2022, vol. 586, p. 49-54., Registrované v: WOS
2. [1.1] AROOB, I. - JAVED, M. - AHMAD, N. - ASLAM, M. - RASHID, N. Investigating the role of carbohydrate-binding module 34 in cyclomaltodextrinase from Geobacillus thermopakistaniensis: structural and functional analyses. In 3 BIOTECH. ISSN 2190-572X, JAN 2022, vol. 12, no. 1., Registrované v: WOS
3. [1.1] BAN, X.F. - XI, S.X. - JIANG, H.M. - GU, Z.B. - LI, C.M. - CHENG, L. - HONG, Y. - LI, Z.F. The amino acid on the top of the active groove allosterically modulates product specificity of the 1,4-alpha-glucan branching enzyme. In FOOD CHEMISTRY. ISSN 0308-8146, AUG 1 2022, vol. 384., Registrované v: WOS
4. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. - CARDENAS-CONEJO, Y. - VIRGEN-ORTIZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARIN-TOVAR, Y. - GOMEZ-MANZO, S. - HERNANDEZ-OCHOA, B. - ROCHA-RAMIREZ, L.M. - ZATARAIN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LOPEZ-MUNGUIA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1., Registrované v: WOS
5. [1.1] CERQUEIRA, F.M. - PHOTENHAUER, A.L. - DODEN, H.L. - BROWN, A.N. - ABDEL-HAMID, A.M. - MORAIS, S. - BAYER, E.A. - WAWRZAK, Z. - CANN, I. - RIDLON, J.M. - HOPKINS, J.B. - KOROPATKIN, N.M. Sas20 is a highly flexible starch-binding protein in the Ruminococcus bromii cell-surface amylosome. In JOURNAL OF BIOLOGICAL CHEMISTRY. MAY 2022, vol. 298, no. 5., Registrované v: WOS

6. [1.1] CONCHOU, L. - MARTIN, J. - GONCALVES, I.R. - GALISSON, F. - VIOLOT, S. - GUILLIERE, F. - AGHAJARI, N. - BALLUT, L. The Candida glabrata glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. In GLYCOBIOLOGY. ISSN 0959-6658, MAR 31 2022, vol. 32, no. 4, p. 343-355., Registrované v: WOS
7. [1.1] DAVID, L.C. - LEE, S.K. - BRUDERER, E. - ABT, M.R. - FISCHER-STETTLER, M. - TSCHOPP, M.A. - SOLHAUG, E.M. - SANCHEZ, K. - ZEEMAN, S.C. BETA-AMYLASE9 is a plastidial nonenzymatic regulator of leaf starch degradation. In PLANT PHYSIOLOGY. ISSN 0032-0889, JAN 2022, vol. 188, no. 1, p. 191-207., Registrované v: WOS
8. [1.1] DING, N. - ZHAO, B.Y. - HAN, X. - LI, C.M. - GU, Z.B. - LI, Z.F. Starch-Binding Domain Modulates the Specificity of Maltopentaose Production at Moderate Temperatures. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, JUL 13 2022, vol. 70, no. 29, p. 9057-9065., Registrované v: WOS
9. [1.1] GARCIA-ALIJA, M. - DU, J.J. - ORDONEZ, I. - DIZ-VALLENILLA, A. - MORALEDA-MONTOYA, A. - SULTANA, N. - HUYNH, C.G. - LI, C. - DONAHUE, T.C. - WANG, L.X. - TRASTOY, B. - SUNDBERG, E.J. - GUERIN, M.E. Mechanism of cooperative N-glycan processing by the multi-modular endoglycosidase EndoE. In NATURE COMMUNICATIONS. MAR 3 2022, vol. 13, no. 1., Registrované v: WOS
10. [1.1] GERCEK, Y.C. - BOZTAS, K. - AYDIN, C. - MORGIL, H. - BARIS, I. - OZ, G.C. - TULUM, I. Expression analyses of soluble starch synthase and starch branching enzyme isoforms in stem and leaf tissues under different photoperiods in lentil (Lens culinaris Medik.). In BIOLOGIA. ISSN 0006-3088, FEB 2022, vol. 77, no. 2, p. 593-607., Registrované v: WOS
11. [1.1] HAGESKAL, G. - HEGGESET, T.M.B. - NGUYEN, G.S. - HAUGEN, T. - JONSSON, M. - EGAS, C. - HIDALGO, A. - WENTZEL, A. - LEWIN, A.S. Flow-based method for biofilm microbiota enrichment and exploration of metagenomes. In AMB EXPRESS. ISSN 2191-0855, MAR 21 2022, vol. 12, no. 1., Registrované v: WOS
12. [1.1] HEDIN, N. - VELAZQUEZ, M.B. - BARCHIESI, J. - GOMEZ-CASATI, D.F. - BUSI, M.V. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 363-378., Registrované v: WOS
13. [1.1] HERNANDEZ-HEREDIA, S. - PENA-CASTRO, J.M. - AGUILAR-USCANGA, M.G. - OLVERA, C. - NOLASCO-HIPOLITO, C. - DEL MORAL, S. AmyJ33, a truncated amylase with improved catalytic properties. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, DEC 2022, vol. 44, no. 12, p. 1447-1463., Registrované v: WOS
14. [1.1] JAAFAR, N.R. - JAILANI, N. - RAHMAN, R.A. - ONER, E.T. - MURAD, A.M.A. - ILLIAS, R.M. Protein surface engineering and interaction studies of maltogenic amylase towards improved enzyme immobilisation. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, JUL 31 2022, vol. 213, p. 70-82., Registrované v: WOS
15. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45., Registrované v: WOS
16. [1.1] KAJLA, S. - KUMARI, R. - DAS, A. - PATEL, V.K. Phylogenetic study to analyse the evolutionary relationship of taxonomically diverse alpha-amylases. In RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI. ISSN 2037-4631, JUN 2022, vol. 33, no. 2, SI, p. 449-460., Registrované v: WOS
17. [1.1] LIU, Z.Y. - WU, G.G. - WU, H.W. Molecular cloning, and optimized production and characterization of recombinant cyclodextrin glucanotransferase from Bacillus sp. T1. In 3 BIOTECH. ISSN 2190-572X, MAR 2022, vol. 12, no. 3., Registrované v: WOS
18. [1.1] MURPHY, R.D. - CHEN, T.T. - LIN, J.P. - HE, R.J. - WU, L. - PEARSON, C.R. - SHARMA, S. - VANDER KOOI, C.D. - SINAI, A.P. - ZHANG, Z.Y. - VANDER KOOI, C.W. - GENTRY, M.S. The Toxoplasma glucan phosphatase TgLaforin utilizes a distinct functional mechanism that can be exploited by therapeutic inhibitors. In JOURNAL OF BIOLOGICAL CHEMISTRY. JUL 2022, vol. 298, no. 7., Registrované v: WOS
19. [1.1] PINEDA-MENDOZA, R.M. - ZUNIGA, G. - LOPEZ, M.F. - HIDALGO-LARA, M.E. - SANTIAGO-HERNANDEZ, A. - LOPEZ-LOPEZ, A. - ORDUNA, F.N.R. - CANO-RAMIREZ, C. Rahnella sp., a Dominant Symbiont of the Core Gut Bacteriome of Dendroctonus Species, Has Metabolic Capacity to Degrade Xylan by Bifunctional Xylanase-Ferulic Acid Esterase. In FRONTIERS IN MICROBIOLOGY. MAY 31 2022, vol. 13., Registrované v: WOS
20. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - ARUNRATTANAMOOK, N. - CHAMPREDA, V. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS. SEP 2022, vol. 12, no. 9., Registrované v:

WOS
21. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6., Registrované v: WOS
22. [1.1] TONG, L.G. - HUANG, H.Q. - ZHENG, J. - WANG, X. - BAI, Y.G. - WANG, X.L. - WANG, Y. - TU, T. - YAO, B. - QIN, X. - LUO, H.Y. Engineering a carbohydrate-binding module to increase the expression level of glucoamylase in Pichia pastoris. In MICROBIAL CELL FACTORIES. MAY 28 2022, vol. 21, no. 1., Registrované v: WOS
23. [1.1] ZHANG, L. - LI, N. - ZHANG, J. - ZHAO, L.L. - QIU, J.J. - WEI, C.X. The CBM48 domain-containing protein FLO6 regulates starch synthesis by interacting with SSIVb and GBSS in rice. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 343-361., Registrované v: WOS
24. [1.1] ZHAO, S. - MAI, R.M. - ZHANG, T. - FENG, X.Z. - LI, W.T. - WANG, W.X. - LUO, X.M. - FENG, J.X. Simultaneous manipulation of transcriptional regulator CxrC and translational elongation factor eEF1A enhances the production of plant-biomass-degrading enzymes of Penicillium oxalicum. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, MAY 2022, vol. 351., Registrované v: WOS
25. [1.1] ZHAO, S. - TAN, M.Z. - WANG, R.X. - YE, F.T. - CHEN, Y.P. - LUO, X.M. - FENG, J.X. Combination of genetic engineering and random mutagenesis for improving production of raw-starch-degrading enzymes in Penicillium oxalicum. In MICROBIAL CELL FACTORIES. DEC 24 2022, vol. 21, no. 1., Registrované v: WOS
26. [1.1] ZHAO, X.X. - MENG, X.Z. - RAGAUSKAS, A.J. - LAI, C.H. - LING, Z. - HUANG, C.X. - YONG, Q. Unlocking the secret of lignin-enzyme interactions: Recent advances in developing state-of-the-art analytical techniques. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, JAN-FEB 2022, vol. 54., Registrované v: WOS
27. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADCA115 JANEČEK, Štefan - BLESÁK, Karol. Sequence-Structural Features and Evolutionary Relationships of Family GH57 alpha-Amylases and Their Putative alpha-Amylase-Like Homologues. In Protein Journal, 2011, vol. 30, p. 429-435. (2010: 1.101 - IF, Q4 - JCR, 0.396 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1572-3887. Dostupné na: https://doi.org/10.1007/s10930-011-9348-7

Citácie:
1. [1.1] WANG, Yuzi - RAL, Jean-Philippe - SAULNIER, Luc - KANSOU, Kamal. How Does Starch Structure Impact Amylolysis? Review of Current Strategies for Starch Digestibility Study. In FOODS, 2022, vol. 11, no. 9, pp. Dostupné na: https://doi.org/10.3390/foods11091223, Registrované v: WOS

ADCA116 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. Structural and evolutionary aspects of two families of non-catalytic domains present in starch and glycogen binding proteins from microbes, plants and animals. In Enzyme and Microbial Technology, 2011, vol. 49, p. 429-440. (2010: 2.287 - IF, Q2 - JCR, 1.207 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0141-0229. Dostupné na: https://doi.org/10.1016/j.enzmictec.2011.07.002

Citácie:
1. [1.1] BAN, X.F. - XI, S.X. - JIANG, H.M. - GU, Z.B. - LI, C.M. - CHENG, L. - HONG, Y. - LI, Z.F. The amino acid on the top of the active groove allosterically modulates product specificity of the 1,4-α-glucan branching enzyme. In FOOD CHEMISTRY. ISSN 0308-8146, AUG 1 2022, vol. 384. Dostupné na: https://doi.org/10.1016/j.foodchem.2022.132458, Registrované v: WOS
2. [1.1] CHEN, L. - DU, M. - WANG, L. - YU, W. - CHEN, Y.R. - CHENG, B.J. - WU, J.D. Maize STARCH SYNTHESIS REGULATING PROTEINI positively regulates starch biosynthesis in rice endosperm. In FUNCTIONAL PLANT BIOLOGY. ISSN 1445-4408, 2022, vol. 49, no. 9, p. 773-783. Dostupné na: https://doi.org/10.1071/fp21338, Registrované v: WOS
3. [1.1] CONCHOU, L. - MARTIN, J. - GONçALVES, I.R. - GALISSON, F. - VIOLOT, S. - GUILLIèRE, F. - AGHAJARI, N. - BALLUT, L. The Candida glabrata glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. In GLYCOBIOLOGY. ISSN 0959-6658, MAR 31 2022, vol. 32, no. 4, p. 343-355. Dostupné na: https://doi.org/10.1093/glycob/cwab110, Registrované v: WOS
4. [1.1] DUAN, K.W. - BAN, X.F. - WANG, Y.L. - LI, C.M. - GU, Z.B. - LI, Z.F. Improving the Product Specificity of Maltotetraose-Forming Amylase from Pseudomonas saccharophila STB07 by Removing the Carbohydrate-Binding Module. In JOURNAL OF

AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, OCT 26 2022, vol. 70, no. 42, p. 13709-13718. Dostupné na: https://doi.org/10.1021/acs.jafc.2c05580, Registrované v: WOS
5. [1.1] HEDIN, N. - VELAZQUEZ, M.B. - BARCHIESI, J. - GOMEZ-CASATI, D.F. - BUSI, M.V. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 363-378. Dostupné na: https://doi.org/10.1007/s11103-021-01190-4, Registrované v: WOS
6. [1.1] PENG, X.J. - YU, W. - CHEN, Y.R. - JIANG, Y.L. - JI, Y.R. - CHEN, L. - CHENG, B.J. - WU, J.D. A Maize CBM Domain Containing the Protein ZmCBM48-1 Positively Regulates Starch Synthesis in the Rice Endosperm. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUN 2022, vol. 23, no. 12. Dostupné na: https://doi.org/10.3390/ijms23126598, Registrované v: WOS
7. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - ARUNRATTANAMOOK, N. - CHAMPREDA, V. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS. SEP 2022, vol. 12, no. 9. Dostupné na: https://doi.org/10.3390/catal12091014, Registrované v: WOS
8. [1.1] ZHANG, L. - LI, N. - ZHANG, J. - ZHAO, L.L. - QIU, J.J. - WEI, C.X. The CBM48 domain-containing protein FLO6 regulates starch synthesis by interacting with SSIVb and GBSS in rice. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 343-361. Dostupné na: https://doi.org/10.1007/s11103-021-01178-0, Registrované v: WOS

ADCA117 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. α-Amylase: an enzyme specificity found in various families of glycoside hydrolases. In Cellular and Molecular Life Sciences, 2014, vol. 71, p. 1149–1170. (2013: 5.856 - IF, Q1 - JCR, 3.301 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-013-1388-z

Citácie:
1. [1.1] AHMAD, A. - RAHAMTULLAH - MISHRA, R. Structural and functional adaptation in extremophilic microbial a-amylases. In BIOPHYSICAL REVIEWS. ISSN 1867-2450, APR 2022, vol. 14, no. 2, SI, p. 499-515. Dostupné na: https://doi.org/10.1007/s12551-022-00931-z, Registrované v: WOS
2. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. - CáRDENAS-CONEJO, Y. - VIRGEN-ORTíZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARíN-TOVAR, Y. - GóMEZ-MANZO, S. - HERNáNDEZ-OCHOA, B. - ROCHA-RAMIREZ, L.M. - ZATARAíN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LóPEZ-MUNGUíA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-021-04569-x, Registrované v: WOS
3. [1.1] CHEN, H.C. - LIU, Y. - REN, X.Y. - WANG, J.J. - ZHU, L.J. - LU, Y.L. - CHEN, X.L. Engineering of Cyclodextrin Glycosyltransferase through a Size/Polarity Guided Triple-Code Strategy with Enhanced α-Glycosyl Hesperidin Synthesis Ability. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, SEP 13 2022, vol. 88, no. 17. Dostupné na: https://doi.org/10.1128/aem.01027-22, Registrované v: WOS
4. [1.1] FAGHANI, E. - KOLAHI, M. - KAZEMIAN, M. - GOLDSON-BARNABY, A. - RAZZAGHI, M.H. Effect of irrigation regimes on starch biosynthesis pathway, cotton (Gossypium hirsutum) yield and in silico analysis of ADP-glucose-pyrophosphorylase. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1735-1472, NOV 2022, vol. 19, no. 11, p. 10809-10830. Dostupné na: https://doi.org/10.1007/s13762-022-04281-x, Registrované v: WOS
5. [1.1] GERCEK, Y.C. - BOZTAS, K. - AYDIN, C. - MORGIL, H. - BARIS, I. - OZ, G.C. - TULUM, I. Expression analyses of soluble starch synthase and starch branching enzyme isoforms in stem and leaf tissues under different photoperiods in lentil (Lens culinaris Medik.). In BIOLOGIA. ISSN 0006-3088, FEB 2022, vol. 77, no. 2, p. 593-607. Dostupné na: https://doi.org/10.1007/s11756-021-00976-7, Registrované v: WOS
6. [1.1] JAFARI, F. - KIANI-GHALEH, F. - EFTEKHARI, S. - RAZLIGHI, M.R. - NAZARI, N. - HAJIRAJABI, M. - SARVESTANI, F.M. - SHARAFIEH, G. Cloning, overexpression, and structural characterization of a novel archaeal thermostable neopullulanase from Desulfurococcus mucosus DSM 2162. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, NOV 1 2022, vol. 52, no. 10, p. 1190-1201. Dostupné na: https://doi.org/10.1080/10826068.2022.2033996, Registrované v: WOS
7. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101498, Registrované v: WOS

8. [1.1] JIANG, Y.W. - LI, X.X. - PIJNING, T. - BAI, Y.X. - DIJKHUIZEN, L. Mutations in Amino Acid Residues of Limosilactobacillus reuteri 121 GtfB 4,6-α-Glucanotransferase that Affect Reaction and Product Specificity. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, FEB 16 2022, vol. 70, no. 6, p. 1952-1961. Dostupné na: https://doi.org/10.1021/acs.jafc.1c07618, Registrované v: WOS
9. [1.1] KAJLA, S. - KUMARI, R. - DAS, A. - PATEL, V.K. Phylogenetic study to analyse the evolutionary relationship of taxonomically diverse α-amylases. In RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI. ISSN 2037-4631, JUN 2022, vol. 33, no. 2, SI, p. 449-460. Dostupné na: https://doi.org/10.1007/s12210-022-01068-7, Registrované v: WOS
10. [1.1] KIKANI, B.A. - SINGH, S.P. Amylases from thermophilic bacteria: structure and function relationship. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 3 2022, vol. 42, no. 3, p. 325-341. Dostupné na: https://doi.org/10.1080/07388551.2021.1940089, Registrované v: WOS
11. [1.1] KIKANI, B.A. - SUTHAR, S. - JOSHI, D. Nanomaterials: An Efficient Support to Immobilize Microbial α-Amylases for Improved Starch Hydrolysis. In STARCH-STARKE. ISSN 0038-9056, SEP 2022, vol. 74, no. 9-10. Dostupné na: https://doi.org/10.1002/star.202200093, Registrované v: WOS
12. [1.1] KLANGPETCH, W. - PATTARAPISITPORN, A. - PHONGTHAI, S. - UTAMA-ANG, N. - LAOKULDILOK, T. - TANGJAIDEE, P. - WIRJANTORO, T.I. - JAICHAKAN, P. Microwave-assisted enzymatic hydrolysis to produce xylooligosaccharides from rice husk alkali-soluble arabinoxylan. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 7 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-021-03360-2, Registrované v: WOS
13. [1.1] KLEINWORT, K.J.H. - WEIGAND, M. - HOFFMANN, L. - DEGROOTE, R.L. - DIETRICH, R. - MäRTLBAUER, E. - HAUCK, S.M. - DEEG, C.A. Pudding Proteomics: Cyclomaltodextrin Glucanotransferase and Microbial Proteases Can Liquefy Extended Shelf Life Dairy Products. In METABOLITES. MAR 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.3390/metabo12030254, Registrované v: WOS
14. [1.1] LI, H. - YAO, D.B. - PAN, Y. - CHEN, X. - FANG, Z.M. - XIAO, Y.Z. Enhanced extracellular raw starch-degrading α-amylase production in Bacillus subtilis by promoter engineering and translation initiation efficiency optimization. In MICROBIAL CELL FACTORIES. JUN 27 2022, vol. 21, no. 1. Dostupné na: https://doi.org/10.1186/s12934-022-01855-9, Registrované v: WOS
15. [1.1] LI, H. - YAO, D.B. - YING, J.R. - HAN, X.D. - ZHANG, X.C. - FANG, X.J. - FANG, Z.M. - XIAO, Y.Z. Enhanced extracellular raw starch-degrading α-amylase production in Bacillus subtilis through signal peptide and translation efficiency optimization. In BIOCHEMICAL ENGINEERING JOURNAL. ISSN 1369-703X, DEC 31 2022, vol. 189. Dostupné na: https://doi.org/10.1016/j.bej.2022.108718, Registrované v: WOS
16. [1.1] MARENGO, M. - PEZZILLI, D. - GIANQUINTO, E. - FISSORE, A. - OLIARO-BOSSO, S. - SGORBINI, B. - SPYRAKIS, F. - ADINOLFI, S. Evaluation of Porcine and Aspergillus oryzae α-Amylases as Possible Model for the Human Enzyme. In PROCESSES. APR 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.3390/pr10040780, Registrované v: WOS
17. [1.1] PIJNING, T. - TE POELE, E.M. - DE LEEUW, T.C. - GUSKOV, A. - DIJKHUIZEN, L. Crystal Structure of 4,6-α-Glucanotransferase GtfC-ΔC from Thermophilic Geobacillus 12AMOR1: Starch Transglycosylation in Non-Permuted GH70 Enzymes. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, DEC 7 2022, vol. 70, no. 48, p. 15283-15295. Dostupné na: https://doi.org/10.1021/acs.jafc.2c06394, Registrované v: WOS
18. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - ARUNRATTANAMOOK, N. - CHAMPREDA, V. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS. SEP 2022, vol. 12, no. 9. Dostupné na: https://doi.org/10.3390/catal12091014, Registrované v: WOS
19. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS
20. [1.1] RAI, A. - SAHA, S.P. - MANVAR, T. - BHATTACHARJEE, A. A shotgun approach to explore the bacterial diversity and a brief insight into the glycoside hydrolases of Samiti lake located in the Eastern Himalayas. In JOURNAL OF GENETIC ENGINEERING AND BIOTECHNOLOGY. ISSN 2090-5920, DEC 5 2022, vol. 20, no. 1. Dostupné na: https://doi.org/10.1186/s43141-022-00444-y, Registrované v: WOS
21. [1.1] TORRES-MIRANDA, A. - MELIS-ARCOS, F. - GARRIDO, D. Characterization and

Identification of Probiotic Features in Lacticaseibacillus Paracasei Using a Comparative Genomic Analysis Approach. In PROBIOTICS AND ANTIMICROBIAL PROTEINS. ISSN 1867-1306, DEC 2022, vol. 14, no. 6, p. 1211-1224. Dostupné na: https://doi.org/10.1007/s12602-022-09999-1, Registrované v: WOS
22. [1.1] WEI, F.L. - MA, N.N. - HASEEB, H.A. - GAO, M.X. - LIU, X.X. - GUO, W. Insights into structural and physicochemical properties of maize starch after Fusarium verticillioides infection. In JOURNAL OF FOOD COMPOSITION AND ANALYSIS. ISSN 0889-1575, DEC 2022, vol. 114. Dostupné na: https://doi.org/10.1016/j.jfca.2022.104819, Registrované v: WOS
23. [1.1] WEN, L.H. - WU, D. - TAN, X.D. - ZHONG, M.Q. - XING, J.B. - LI, W. - LI, D. - CAO, F.R. The Role of Catechins in Regulating Diabetes: An Update Review. In NUTRIENTS. NOV 2022, vol. 14, no. 21. Dostupné na: https://doi.org/10.3390/nu14214681, Registrované v: WOS
24. [1.1] ZHANG, L.H. - MA, H.C. - KULYAR, M.F.E.A. - PAN, H.C. - LI, K.W. - LI, A.Y. - MO, Q. - WANG, Y.P. - DONG, H.L. - BAO, Y.H. - LI, J.K. Complete genome analysis of Lactobacillus fermentum YLF016 and its probiotic characteristics. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, JAN 2022, vol. 162. Dostupné na: https://doi.org/10.1016/j.micpath.2021.105212, Registrované v: WOS
25. [1.1] ZHANG, Q. - PRITCHARD, J. - MIEOG, J. - BYRNE, K. - COLGRAVE, M.L. - WANG, J.R. - RAL, J.P.F. Over-Expression of a Wheat Late Maturity Alpha-Amylase Type 1 Impact on Starch Properties During Grain Development and Germination. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, MAR 29 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fpls.2022.811728, Registrované v: WOS
26. [1.2] SADEER, Nabeelah Bibi - MAHOMOODALLY, Mohamad Fawzi. Mangroves with Therapeutic Potential for Human Health: Global Distribution, Ethnopharmacology, Phytochemistry, and Biopharmaceutical Application. In Mangroves with Therapeutic Potential for Human Health: Global Distribution, Ethnopharmacology, Phytochemistry, and Biopharmaceutical Application, 2022-01-01, pp. 1-311. Dostupné na: https://doi.org/10.1016/C2021-0-01720-X, Registrované v: SCOPUS

ADCA118 JANEČEK, Štefan - MAJZLOVÁ, Katarína - SVENSSON, B. - MACGREGOR, E.A. The starch-binding domain family CBM41-An in silico analysis of evolutionary relationships. In Proteins : Structure Function and Bioinformatics, 2017, vol. 85, no. 8, p. 1480-1492. (2016: 2.289 - IF, Q3 - JCR, 1.361 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0887-3585. Dostupné na: https://doi.org/10.1002/prot.25309

Citácie:

1. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - ARUNRATTANAMOOK, N. - CHAMPREDA, V. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS. SEP 2022, vol. 12, no. 9. Dostupné na: https://doi.org/10.3390/catal12091014, Registrované v: WOS
2. [1.1] ZHAO, C.C. - WANG, L.M. - KE, S.L. - CHEN, X.H. - KENéZ, A. - XU, W. - WANG, D.D. - ZHANG, F. - LI, Y. - CUI, Z.H. - QIAO, Y. - WANG, J. - SUN, W.J. - ZHAO, J.H. - YAO, J.H. - YU, Z.T. - CAO, Y.C. Yak rumen microbiome elevates fiber degradation ability and alters rumen fermentation pattern to increase feed efficiency. In ANIMAL NUTRITION. ISSN 2405-6383, DEC 2022, vol. 11, p. 201-214. Dostupné na: https://doi.org/10.1016/j.aninu.2022.07.014, Registrované v: WOS

ADCA119 JANEČEK, Štefan - GABRIŠKO, Marek. Remarkable evolutionary relatedness among the enzymes and proteins from the α-amylase family. In Cellular and Molecular Life Sciences, 2016, vol. 73, p. 2707–2725. (2015: 5.694 - IF, Q1 - JCR, 3.400 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-016-2246-6

Citácie:

1. [1.1] AHMAD, A. - RAHAMTULLAH - MISHRA, R. Structural and functional adaptation in extremophilic microbial a-amylases. In BIOPHYSICAL REVIEWS. ISSN 1867-2450, APR 2022, vol. 14, no. 2, SI, p. 499-515. Dostupné na: https://doi.org/10.1007/s12551-022-00931-z, Registrované v: WOS
2. [1.1] GAENSSLE, A.L.O. - VAN DER MAAREL, M.J.E.C. - JURAK, E. The influence of amylose content on the modification of starches by glycogen branching enzymes. In FOOD CHEMISTRY. ISSN 0308-8146, NOV 1 2022, vol. 393. Dostupné na: https://doi.org/10.1016/j.foodchem.2022.133294, Registrované v: WOS
3. [1.1] JING, D.P. - PRABU, S. - ZHANG, T.T. - BAI, S.X. - HE, K.L. - ZHANG, Y.J. - WANG, Z.Y. Revealing the difference of α-amylase and CYP6AE76 gene between polyphagous Conogethes punctiferalis and oligophagous C. pinicolalis by multiple-omics and molecular biological technique. In BMC GENOMICS. ISSN 1471-2164, JUL 19 2022, vol. 23, no. 1. Dostupné na:

https://doi.org/10.1186/s12864-022-08753-9, *Registrované v: WOS*
4. [1.1] KAJLA, S. - KUMARI, R. - DAS, A. - PATEL, V.K. Phylogenetic study to analyse the evolutionary relationship of taxonomically diverse α-amylases. In RENDICONTI LINCEI-SCIENZE FISICHE E NATURALI. ISSN 2037-4631, JUN 2022, vol. 33, no. 2, SI, p. 449-460. Dostupné na: https://doi.org/10.1007/s12210-022-01068-7, Registrované v: WOS
5. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - ARUNRATTANAMOOK, N. - CHAMPREDA, V. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS. SEP 2022, vol. 12, no. 9. Dostupné na: https://doi.org/10.3390/catal12091014, Registrované v: WOS
6. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS
7. [1.1] RULLO-TUBAU, J. - BARTOCCIONI, P. - LLORCA, O. - ERRASTI-MURUGARREN, E. - PALACíN, M. HATs meet structural biology. In CURRENT OPINION IN STRUCTURAL BIOLOGY. ISSN 0959-440X, JUN 2022, vol. 74. Dostupné na: https://doi.org/10.1016/j.sbi.2022.102389, Registrované v: WOS
8. [1.1] XIAO, Y. - LU, H.Q. - LIU, Y. - SANG, Y.X. - SUN, J.L. Whole-genome sequencing and functional analysis of a novel chitin-degrading strain Rhodococcus sp. 11-3. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, AUG 2022, vol. 134, no. 2, p. 167-173. Dostupné na: https://doi.org/10.1016/j.jbiosc.2022.04.010, Registrované v: WOS
9. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS
10. [1.2] TIAN, Yuqing - CHEN, Qiuming - ZHANG, Wenli. Amylosucrase: A Versatile Sucrose-Utilizing Transglucosylase for Glycodiversification. In Novel enzymes for functional carbohydrates production: From scientific research to application in health food industry, 2021-01-01, pp. 223-249. Dostupné na: https://doi.org/10.1007/978-981-33-6021-1_11, Registrované v: SCOPUS
11. [1.2] WANG, Zhengfei - TANG, Dan - SHEN, Chenchen - WU, Lv. Identification of Genes Involved in Digestion from Transcriptome of Parasesarma pictum and Parasesarma affine Hepatopancreas. In Thalassas, 2022-04-01, 38, 1, pp. 93-101. ISSN 02125919. Dostupné na: https://doi.org/10.1007/s41208-021-00296-2, Registrované v: SCOPUS

ADCA120 JANEČEK, Štefan - KUCHTOVÁ, Andrea. In silico identification of catalytic residues and domain fold of the family GH119 sharing the catalytic machinery with the α-amylase family GH57. In FEBS Letters, 2012, vol. 586, p. 3360-3366. (2011: 3.538 - IF, Q2 - JCR, 2.302 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/j.febslet.2012.07.020

Citácie:
1. [1.1] PRONGJIT, Daran - LEKAKARN, Hataikarn - BUNTERNGSOOK, Benjarat - AIEWVIRIYASAKUL, Katesuda - SRITUSNEE, Wipawee - CHAMPREDA, Verawat. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS, 2022, vol. 12, no. 6, pp. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS
2. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADCA121 JANEČEK, Štefan. Alpha-amylase family: molecular biology and evolution. In Progress in Biophysics & Molecular Biology, 1997, vol. 67, p. 67-97. ISSN 0079-6107. Dostupné na: https://doi.org/10.1016/S0079-6107(97)00015-1

Citácie:
1. [1.1] ASHRAF, S. - SIDDIQUI, M.A. - NISA, K. - ALI, S. - RASHID, N. Gene Cloning and Characterization of Pcal_0222, α-Amylase from Pyrobaculum calidifontis. In PAKISTAN JOURNAL OF ZOOLOGY. ISSN 0030-9923, APR 2022, vol. 54, no. 2, p. 537-542. Dostupné na: https://doi.org/10.17582/journal.pjz/20200917190928, Registrované v: WOS
2. [1.1] BATISTA, B.N. - MATIAS, R.R. - OLIVEIRA, R.L.E. - ALBUQUERQUE, P.M. Hydrolytic enzyme production from acai palm (Euterpe precatoria) endophytic fungi and characterization of the amylolytic and cellulolytic extracts. In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, FEB 2022, vol. 38, no. 2. Dostupné na: https://doi.org/10.1007/s11274-021-03217-w, Registrované v: WOS
3. [1.1] CONCHOU, L. - MARTIN, J. - GONçALVES, I.R. - GALISSON, F. - VIOLOT, S. -

GUILLIèRE, F. - AGHAJARI, N. - BALLUT, L. The Candida glabrata glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. In GLYCOBIOLOGY. ISSN 0959-6658, MAR 31 2022, vol. 32, no. 4, p. 343-355. Dostupné na: https://doi.org/10.1093/glycob/cwab110, Registrované v: WOS

4. [1.1] HAN, A.R. - KIM, H. - PARK, J.T. - KIM, J.W. Characterization of a cold-adapted debranching enzyme and its role in glycogen metabolism and virulence of Vibrio vulnificus MO6-24/O. In JOURNAL OF MICROBIOLOGY. ISSN 1225-8873, APR 2022, vol. 60, no. 4, p. 375-386. Dostupné na: https://doi.org/10.1007/s12275-022-1507-3, Registrované v: WOS

5. [1.1] KONDROTAITE, Z. - VALK, L.C. - PETRIGLIERI, F. - SINGLETON, C. - NIERYCHLO, M. - DUEHOLM, M.K.D. - NIELSEN, P.H. Diversity and Ecophysiology of the Genus OLB8 and Other Abundant Uncultured Saprospiraceae Genera in Global Wastewater Treatment Systems. In FRONTIERS IN MICROBIOLOGY. JUL 8 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.917553, Registrované v: WOS

ADCA122 JANEČEK, Štefan. Sequence similarities and evolutionary relationships of microbial, plant and animal alpha-amylases. In European Journal of Biochemistry, 1994, vol. 224, p. 519-524. Dostupné na: https://doi.org/10.1111/j.1432-1033.1994.00519.x

Citácie:

1. [1.1] JING, D.P. - PRABU, S. - ZHANG, T.T. - BAI, S.X. - HE, K.L. - ZHANG, Y.J. - WANG, Z.Y. Revealing the difference of α-amylase and CYP6AE76 gene between polyphagous Conogethes punctiferalis and oligophagous C. pinicolalis by multiple-omics and molecular biological technique. In BMC GENOMICS. ISSN 1471-2164, JUL 19 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12864-022-08753-9, Registrované v: WOS

2. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

3. [1.1] YAN, H. - WEN, F. - XIANG, H.Y. - WEN, Y.C. - SHANG, D.L. - LIU, A.Y. - NIU, Y.C. - XIA, Q.Y. - WANG, G.H. Biochemical characterization and overexpression of alpha-amylase (BmAmy) in silkworm, Bombyx mori. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, APR 2022, vol. 31, no. 2, p. 251-259. Dostupné na: https://doi.org/10.1111/imb.12755, Registrované v: WOS

ADCA123 JANEČEK, Štefan - LEVEQUE, E. - BELARBI, A. - HAYE, B. Close evolutionary relatedness of alpha-amylases from Archaea and plants. In Journal of Molecular Evolution, 1999, vol. 48, p. 421-426. ISSN 0022-2844. Dostupné na: https://doi.org/10.1007/PL00006486

Citácie:

1. [1.1] KLAUS, Thomas - NINCK, Sabrina - ALBERSMEIER, Andreas - BUSCHE, Tobias - WIBBERG, Daniel - JIANG, Jianbing - ELCHENINOV, Alexander G. - ZAYULINA, Kseniya S. - KASCHANI, Farnusch - BRAESEN, Christopher - OVERKLEEFT, Herman S. - KALINOWSKI, Joern - KUBLANOV, Ilya V. - KAISER, Markus - SIEBERS, Bettina. Activity-Based Protein Profiling for the Identification of Novel Carbohydrate-Active Enzymes Involved in Xylan Degradation in the Hyperthermophilic Euryarchaeon Thermococcus sp. Strain 2319x1E. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 12, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2021.734039, Registrované v: WOS

2. [1.2] LAEMTHONG, Tunyaboon - LEWIS, April M. - CROSBY, James R. - BING, Ryan G. - SCHNEIDER, William H. - WILLARD, Daniel J. - COUNTS, James A. - KELLY, Robert M. Enzymes from extremely thermophilic bacteria and archaea: current status and future prospects. In Extremozymes and their Industrial Applications, 2022-01-01, pp. 41-84. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00004-6, Registrované v: SCOPUS

ADCA124 JANEČEK, Štefan - ŠEVČÍK, Jozef. The evolution of starch-binding domain. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 1999, vol. 456, p. 119-125. ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/S0014-5793(99)00919-9

Citácie:

1. [1.1] HERNANDEZ-HEREDIA, Sarahi - MARIO PENA-CASTRO, Julian - GUADALUPE AGUILAR-USCANGA, Maria - OLVERA, Clarita - NOLASCO-HIPOLITO, Cirilo - DEL MORAL, Sandra. AmyJ33, a truncated amylase with improved catalytic properties. In BIOTECHNOLOGY LETTERS, 2022, vol. 44, no. 12, pp. 1447-1463. ISSN 0141-5492. Dostupné na: https://doi.org/10.1007/s10529-022-03311-5, Registrované v: WOS

ADCA125 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. A remote but significant sequence homology between glycoside hydrolase clan GH-H and family GH31. In FEBS Letters : Federation of

European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 2007, vol. 581, p. 1261-1268. (2006: 3.372 - IF, Q1 - JCR, 2.212 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/j.febslet.2007.02.036

Citácie:

1. [1.1] SHISHIUCHI, Rikako - KANG, Hyejin - TAGAMI, Takayoshi - UEDA, Yoshitaka - LANG, Weeranuch - KIMURA, Atsuo - OKUYAMA, Masayuki. Discovery of alpha-L-ucosidase Raises the Possibility of alpha-L-Glucosides in Nature. In ACS OMEGA, 2022, vol. 7, no. 50, pp. 47411-47423. ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.2c06991, Registrované v: WOS

ADCA126 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. Relation between domain evolution, specificity, and taxonomy of the a-amylase family members containing a C-terminal starch-binding domain. In European Journal of Biochemistry, 2003, vol. 270, p. 635-645. (2002: 2.999 - IF, karentované - CCC). (2003 - Current Contents, WOS, SCOPUS). Dostupné na: https://doi.org/10.1046/j.1432-1033.2003.03404.x

Citácie:

1. [1.1] CENTENO-LEIJA, Sara - ESPINOSA-BARRERA, Laura - VELAZQUEZ-CRUZ, Beatriz - CARDENAS-CONEJO, Yair - VIRGEN-ORTIZ, Raul - VALENCIA-CRUZ, Georgina - SAENZ, Roberto A. - MARIN-TOVAR, Yerli - GOMEZ-MANZO, Saul - HERNANDEZ-OCHOA, Beatriz - MARIA ROCHA-RAMIREZ, Luz - ZATARAIN-PALACIOS, Rocio - OSUNA-CASTRO, Juan A. - LOPEZ-MUNGUIA, Agustin - SERRANO-POSADA, Hugo. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS, 2022, vol. 12, no. 1, pp. ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-021-04569-x, Registrované v: WOS

2. [1.1] HERNANDEZ-HEREDIA, Sarahi - MARIO PENA-CASTRO, Julian - GUADALUPE AGUILAR-USCANGA, Maria - OLVERA, Clarita - NOLASCO-HIPOLITO, Cirilo - DEL MORAL, Sandra. AmyJ33, a truncated amylase with improved catalytic properties. In BIOTECHNOLOGY LETTERS, 2022, vol. 44, no. 12, pp. 1447-1463. ISSN 0141-5492. Dostupné na: https://doi.org/10.1007/s10529-022-03311-5, Registrované v: WOS

3. [1.1] YANG, Tao - ZHONG, Lingli - JIANG, Guangshuai - LIU, Lin - WANG, Pei - ZHONG, Yingxin - YUE, Qianru - OUYANG, Lei - ZHANG, Anqiang - LI, Zhoukun - CUI, Zhongli - JIANG, Dong - ZHOU, Qin. Comparative study on bread quality and starch digestibility of normal and waxy wheat (Triticum aestivum L.) modified by maltohexaose producing alpha-amylases. In FOOD RESEARCH INTERNATIONAL, 2022, vol. 162, no., pp. ISSN 0963-9969. Dostupné na: https://doi.org/10.1016/j.foodres.2022.112034, Registrované v: WOS

ADCA127 JANEČEK, Štefan - SVENSSON, B. - RUSSELL, RR. Location of repeat elements in glucansucrases of Leuconostoc and Streptococcus species. In FEMS Microbiology Letters, 2000, vol. 192, p. 53-57. (1999: 1.673 - IF, Q2 - JCR, 0.979 - SJR, Q2 - SJR). ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(00)00408-0

Citácie:

1. [1.1] BECHTNER, Julia - HASSLER, Verena - WEFERS, Daniel - EHRMANN, Matthias - JAKOB, Frank. The C-Terminal Domain of Liquorilactobacillus nagelii Dextransucrase Mediates the Production of Larger Dextrans Compared to Liquorilactobacillus hordei. In GELS, 2022, vol. 8, no. 3, pp. Dostupné na: https://doi.org/10.3390/gels8030171, Registrované v: WOS

ADCA128 JANEČEK, Štefan. A motif of a microbial starch-binding domain found in human genethonin. In Bioinformatics, 2002, vol. 18, p. 1534-1537. ISSN 1367-4803. Dostupné na: https://doi.org/10.1093/bioinformatics/18.11.1534

Citácie:

1. [1.1] DELBRIDGE, Lea M. D. - KOUTSIFELI, Parisa - FONG, Sarah P. T. - ANNANDALE, Marco - WEEKS, Kate L. - BELL, James R. - MELLOR, Kimberley M. Glycophagy the physiological perspective on a newly characterized glycogen-selective autophagy. In CURRENT OPINION IN PHYSIOLOGY, 2022, vol. 30, no., pp. Dostupné na: https://doi.org/10.1016/j.cophys.2022.100598, Registrované v: WOS

2. [1.1] KOUTSIFELI, Parisa - VARMA, Upasna - DANIELS, Lorna J. - ANNANDALE, Marco - LI, Xun - NEALE, Joshua P. H. - HAYES, Sarah - WEEKS, Kate L. - JAMES, Samuel - DELBRIDGE, Lea M. D. - MELLOR, Kimberley M. Glycogen-autophagy: Molecular machinery and cellular mechanisms of glycophagy. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2022, vol. 298, no. 7, pp. Dostupné na: https://doi.org/10.1016/j.jbc.2022.102093, Registrované v: WOS

ADCA129 JANEČEK, Štefan - MACGREGOR, E.A. - SVENSSON, B. Characteristic differences in the primary structure allow discrimination of cyclodextrin glucanotransferases from alpha-amylases. In Biochemical Journal, 1995, vol. 305, p. 685-686. (1994: 4.262 - IF). ISSN 0264-6021. Dostupné na: https://doi.org/10.1042/bj3050685

Citácie:

1. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. -

CáRDENAS-CONEJO, Y. - VIRGEN-ORTíZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARíN-TOVAR, Y. - GóMEZ-MANZO, S. - HERNáNDEZ-OCHOA, B. - ROCHA-RAMIREZ, L.M. - ZATARAíN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LóPEZ-MUNGUíA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-021-04569-x, Registrované v: WOS

2. [1.1] LIU, Z.Y. - WU, G.G. - WU, H.W. Molecular cloning, and optimized production and characterization of recombinant cyclodextrin glucanotransferase from Bacillus sp. T1. In 3 BIOTECH. ISSN 2190-572X, MAR 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.1007/s13205-022-03111-8, Registrované v: WOS

ADCA130 JANEČEK, Štefan** - ZÁMOCKÁ, Barbora. A new GH13 subfamily represented by the α-amylase from the halophilic archaeon Haloarcula hispanica. In Extremophiles, 2020, vol. 24, 207–217. (2019: 2.462 - IF, Q3 - JCR, 0.734 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-019-01147-y

Citácie:

1. [1.1] AHMAD, A. - RAHAMTULLAH - MISHRA, R. Structural and functional adaptation in extremophilic microbial a-amylases. In BIOPHYSICAL REVIEWS. ISSN 1867-2450, APR 2022, vol. 14, no. 2, SI, p. 499-515., Registrované v: WOS

2. [1.1] JIANG, C.Q. - MINO, S. - SAWABE, T. Genomic Analyses of Halioticoli Clade Species in Vibrionaceae Reveal Genome Expansion With More Carbohydrate Metabolism Genes During Symbiotic to Planktonic Lifestyle Transition. In FRONTIERS IN MARINE SCIENCE. MAR 23 2022, vol. 9., Registrované v: WOS

3. [1.1] KIKANI, B.A. - SUTHAR, S. - JOSHI, D. Nanomaterials: An Efficient Support to Immobilize Microbial alpha-Amylases for Improved Starch Hydrolysis. In STARCH-STARKE. ISSN 0038-9056, SEP 2022, vol. 74, no. 9-10., Registrované v: WOS

4. [1.1] LEKAKARN, H. - BUNTERNGSOOK, B. - PAJONGPAKDEEKUL, N. - PRONGJIT, D. - CHAMPREDA, V. A novel low temperature active maltooligosaccharides-forming amylase from Bacillus koreensis HL12 as biocatalyst for maltooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, JUN 2022, vol. 12, no. 6., Registrované v: WOS

5. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6., Registrované v: WOS

ADCA131 JANEČEK, Štefan** - MARTINOVIČOVÁ, M. New groups of protein homologues in the α-amylase family GH57 closely related to α-glucan branching enzymes and 4-α-glucanotransferases. In Genetica, 2020, vol. 148, p. 77–86. (2019: 1.186 - IF, Q4 - JCR, 0.493 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0016-6707. Dostupné na: https://doi.org/10.1007/s10709-020-00089-0

Citácie:

1. [1.1] JUNG, J.H. - HONG, S.P.Y. - JEON, E.J. - KIM, M.K. - SEO, D.H. - WOO, E.J. - HOLDEN, J.F. - PARK, C.S. Acceptor dependent catalytic properties of GH57 4-a-glucanotransferase from Pyrococcus sp. ST04. In FRONTIERS IN MICROBIOLOGY. OCT 6 2022, vol. 13., Registrované v: WOS

2. [1.1] KRUSONG, K. - ISMAIL, A. - WANGPAIBOON, K. - PONGSAWASDI, P. Production of Large-Ring Cyclodextrins by Amylomaltases. In MOLECULES. FEB 2022, vol. 27, no. 4., Registrované v: WOS

ADCA132 JANÍČKOVÁ, Zuzana - JANEČEK, Štefan**. In silico analysis of fungal and chloride-dependent alpha-amylases within the family GH13 with identification of possible secondary surface-binding sites. In Molecules, 2021, vol. 26, no. 5704. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules26185704

Citácie:

1. [1.1] HUO, J.X. - SUN, Y.Q. - PAN, M.L. - MA, H.Y. - LIN, T.B. - LV, Z.Q. - LI, Y.G. - ZHONG, S. Non-targeted metabonomics and transcriptomics revealed the mechanism of mulberry branch extracts promoting the growth of Sanghuangporus vaninii mycelium. In FRONTIERS IN MICROBIOLOGY. OCT 6 2022, vol. 13., Registrované v: WOS

2. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading alpha-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6., Registrované v: WOS

ADCA133 JANÍČKOVÁ, Zuzana - JANEČEK, Štefan**. Fungal α-amylases from three GH13 subfamilies: their sequence-structural features and evolutionary relationships. In International Journal of Biological

Macromolecules, 2020, vol. 159, p. 763-772. (2019: 5.162 - IF, Q1 - JCR, 0.972 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2020.05.069

Citácie:

1. [1.1] LIU, Z.Y. - WU, G.G. - WU, H.W. Molecular cloning, and optimized production and characterization of recombinant cyclodextrin glucanotransferase from Bacillus sp. T1. In 3 BIOTECH. ISSN 2190-572X, MAR 2022, vol. 12, no. 3., Registrované v: WOS

2. [1.1] UNAL, A. - SUBASI, A.S. - MALKOC, S. - OCAK, I. - KORCAN, S.E. - YETILMEZER, E. - YURDUGUL, S. - YAMAN, H. - SANAL, T. - KECELI, A. Potential of fungal thermostable alpha amylase enzyme isolated from Hot springs of Central Anatolia (Turkey) in wheat bread quality. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45., Registrované v: WOS

ADCA134 JARDIM-MESSEDER, Douglas - ZÁMOCKÝ, Marcel - SACHETTO-MARTINS, Gilberto** - MARGIS-PINHEIRO, Márcia**. Chloroplastic ascorbate peroxidases targeted to stroma or thylakoid membrane: The chicken or egg dilemma. In Febs Letters, 2022, vol. 596, iss. 23, p. 2989-3004. (2021: 3.864 - IF, Q2 - JCR, 1.263 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1873-3468. Dostupné na: https://doi.org/10.1002/1873-3468.14438 (APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. VEGA č. 2/0012/22)

Citácie:

1. [1.1] KAYA, C. - UGURLAR, F. - ASHRAF, M. - ALYEMENI, M.N. - BAJGUZ, A. - AHMAD, P. The involvement of hydrogen sulphide in melatonin-induced tolerance to arsenic toxicity in pepper (Capsicum annuum L.) plants by regulating sequestration and subcellular distribution of arsenic, and antioxidant defense system. In CHEMOSPHERE. ISSN 0045-6535, DEC 2022, vol. 309, 1., Registrované v: WOS

ADCA135 JESZEOVÁ, Lenka - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - GRIVALSKÝ, Tomáš - DANKO, Martin - MOSNÁČKOVÁ, Katarína - CHMELA, Štefan - PANGALLO, Domenico**. Microbial communities responsible for the degradation of poly(lactic acid)/poly(3-hydroxybutyrate) blend mulches in soil burial respirometric tests. In World Journal of Microbiology & Biotechnology, 2018, vol. 34, art. no. 101. (2017: 2.100 - IF, Q3 - JCR, 0.604 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-018-2483-y

Citácie:

1. [1.1] AWASTHI, S.K. - KUMAR, M. - KUMAR, V. - SARSAIYA, S. - ANERAO, P. - GHOSH, P. - SINGH, L. - LIU, H. - ZHANG, Z.Q. - AWASTHI, M.K. A comprehensive review on recent advancements in biodegradation and sustainable management of biopolymers. In ENVIRONMENTAL POLLUTION. ISSN 0269-7491, AUG 15 2022, vol. 307. Dostupné na: https://doi.org/10.1016/j.envpol.2022.119600, Registrované v: WOS

2. [1.1] BAO, R.Q. - PU, J.R. - XIE, C.L. - MEHMOOD, T. - CHEN, W. - GAO, L. - LIN, W.L. - SU, Y.Y. - LIN, X.B. - PENG, L.C. Aging of biodegradable blended plastic generates microplastics and attached bacterial communities in air and aqueous environments. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, JUL 15 2022, vol. 434. Dostupné na: https://doi.org/10.1016/j.jhazmat.2022.128891, Registrované v: WOS

3. [1.1] BHER, A. - MAYEKAR, P.C. - AURAS, R.A. - SCHVEZOV, C.E. Biodegradation of Biodegradable Polymers in Mesophilic Aerobic Environments. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, OCT 2022, vol. 23, no. 20. Dostupné na: https://doi.org/10.3390/ijms232012165, Registrované v: WOS

4. [1.1] CARBOUé, Q. - FADLALLAH, S. - WERGHI, Y. - LONGé, L. - GALLOS, A. - ALLAIS, F. - LOPEZ, M. Impact of Bis-O-dihydroferuloyl-1,4-butanediol Content on the Chemical, Enzymatic and Fungal Degradation Processes of Poly(3-hydroxybutyrate). In POLYMERS. APR 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/polym14081564, Registrované v: WOS

5. [1.1] FOJT, J. - ROMáNEKOVá, I. - PROCHáZKOVá, P. - DAVID, J. - BRTNICKY, M. - KUCERíK, J. A Simple Method for Quantification of Polyhydroxybutyrate and Polylactic Acid Micro-Bioplastics in Soils by Evolved Gas Analysis. In MOLECULES. MAR 2022, vol. 27, no. 6. Dostupné na: https://doi.org/10.3390/molecules27061898, Registrované v: WOS

6. [1.1] FRANCIONI, M. - KISHIMOTO-MO, A.W. - TSUBOI, S. - HOSHINO, Y.T. Evaluation of the mulch films biodegradation in soil: A methodological review. In ITALIAN JOURNAL OF AGRONOMY. ISSN 1125-4718, 2022, vol. 17, no. 3. Dostupné na: https://doi.org/10.4081/ija.2021.1936, Registrované v: WOS

7. [1.1] WALLBANK, J.A. - LEAR, G. - KINGSBURY, J.M. - WEAVER, L. - DOAKE, F. - SMITH, D.A. - AUDREZET, F. - MADAY, S.D.M. - GAMBARINI, V. - DONALDSON, L. - THEOBALD, B. - BARBIER, M. - PANTOS, O. Into the Plastisphere, Where Only the Generalists Thrive: Early Insights in Plastisphere Microbial Community Succession. In FRONTIERS IN MARINE

SCIENCE. MAY 10 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fmars.2022.841142, Registrované v: WOS
8. [1.1] WANG, Q.L. - FENG, X.Y. - LIU, Y.Y. - CUI, W.Z. - SUN, Y.H. - ZHANG, S.W. - WANG, F.Y. Effects of microplastics and carbon nanotubes on soil geochemical properties and bacterial communities. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, JUL 5 2022, vol. 433. Dostupné na: https://doi.org/10.1016/j.jhazmat.2022.128826, Registrované v: WOS

ADCA136 JESZEOVÁ, Lenka - BAUEROVÁ-HLINKOVÁ, Vladena** - BARÁTH, Peter - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Biochemical and proteomic characterization of the extracellular enzymatic preparate of Exiguobacterium undae, suitable for efficient animal glue removal. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 6525-6536. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-018-9105-3

Citácie:
1. [1.1] BAI, W.D. - LIANG, J.X. - ZHAO, W.H. - QIAN, M. - ZENG, X.F. - TU, J.C. - YANG, J. Umami and umami-enhancing peptides from myofibrillar protein hydrolysates in low-sodium dry-cured Spanish mackerel (Scomberomorus niphonius) under the action of Lactobacillus plantarum. In INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY. ISSN 0950-5423, AUG 2022, vol. 57, no. 8, SI, p. 5494-5503. Dostupné na: https://doi.org/10.1111/ijfs.15883, Registrované v: WOS
2. [1.1] ZHU, J.M. - WANG, J.P. - WANG, J. - DING, J.H. - ZHANG, P.Y. - DONG, W.Q. - ZHAO, X.C. - LU, Z.Y. - LI, X.H. Effectively removing animal glue coated on the surface of ancient mural via dissolution of PVA hydrogel induced by thermal treatment. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 179-184. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.009, Registrované v: WOS

ADCA137 JIANG, S. - WAN, Q. - KRAJČÍKOVÁ, Daniela - TANG, J. - TZOKOV, S.B. - BARÁK, Imrich - BULLOUGH, P.A. Diverse supramolecular structures formed by self-assembling proteins of the Bacillus subtilisspore coat. In Molecular Microbiology, 2015, vol. 97, p. 347-359. (2014: 4.419 - IF, Q1 - JCR, 3.184 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/mmi.13030

Citácie:
1. [1.1] DURAND-HEREDIA, J. - HSIEH, H.Y. - SPRENG, K.A. - STEWART, G.C. Roles and Organization of BxpB (ExsFA) and ExsFB in the Exosporium Outer Basal Layer of Bacillus anthracis. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, DEC 20 2022, vol. 204, no. 12. Dostupné na: https://doi.org/10.1128/jb.00290-22, Registrované v: WOS
2. [1.1] GONCALVES, G. - SANTOS, R.A. - COUTINHO, F. - PEDROSA, N. - CURADO, M. - MACHADO, M. - COSTAS, B. - BONNEVILLE, L. - SERRANO, M. - CARVALHO, A.P. - DIAZ-ROSALES, P. - OLIVA-TELES, A. - COUTO, A. - SERRA, C.R. Oral vaccination of fish against vibriosis using spore-display technology. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, OCT 13 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fimmu.2022.1012301, Registrované v: WOS

ADCA138 JUNG, T.Y. - LI, D. - PARK, J.T. - YOON, S.M. - TRAN, P.L. - OH, B.H. - JANEČEK, Štefan - PARK, S.G. - WOO, E.J. - PARK, K.H. Association of novel domain in active site of archaic hyperthermophilic maltogenic amylase from Staphylothermus marinus. In Journal of Biological Chemistry, 2012, vol. 278, p. 7979-7989. (2011: 4.773 - IF, Q1 - JCR, 3.544 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M111.304774

Citácie:
1. [1.1] WANI, Atif Khurshid - AKHTAR, Nahid - SHER, Farooq - NAVARRETE, Acacio Aparecido - AMERICO-PINHEIRO, Juliana Heloisa Pine. Microbial adaptation to different environmental conditions: molecular perspective of evolved genetic and cellular systems. In ARCHIVES OF MICROBIOLOGY, 2022, vol. 204, no. 2, pp. ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-022-02757-5, Registrované v: WOS

ADCA139 JURSKÝ, František - BALIOVÁ, Martina. Differential effect of the benzophenanthridine alkaloids sanguinarine and chelerythrine on glycine transporters. In Neurochemistry International, 2011, vol. 58, p. 641-647. (2010: 3.601 - IF, Q2 - JCR, 1.603 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0197-0186. Dostupné na: https://doi.org/10.1016/j.neuint.2011.02.001

Citácie:
1. [1.1] GAONA-TOVAR, Emmanuel - ESTRADA-SOTO, Samuel - GONZALEZ-TRUJANO, Maria Eva - MARTINEZ-VARGAS, David - HERNANDEZ-LEON, Alberto - NARVAEZ-GONZALEZ, Fernando - VILLALOBOS-MOLINA, Rafael - ALMANZA-PEREZ, Julio C. Antinociceptive and gastroprotective activities of Bocconia arborea S. Watson and its bioactive metabolite dihydrosanguinarine in murine models. In JOURNAL OF ETHNOPHARMACOLOGY, 2022, vol. 296, no., pp. ISSN 0378-8741. Dostupné na: https://doi.org/10.1016/j.jep.2022.115492,

Registrované v: WOS
2. [1.1] PAN, Yao - LI, Hongyan - SHAHIDI, Fereidoon - LUO, Ting - DENG, Zeyuan. Interactions among dietary phytochemicals and nutrients: Role of cell membranes. In TRENDS IN FOOD SCIENCE & TECHNOLOGY, 2022, vol. 124, no., pp. 38-50. ISSN 0924-2244. Dostupné na: https://doi.org/10.1016/j.tifs.2022.03.024, Registrované v: WOS

ADCA140 KACLIKOVA, E. - PANGALLO, Domenico - ORAVCOVA, K. - DRAHOVSKÁ, H. - KUCHTA, T. Quantification of Escherichia coli by kinetic 5';-nuclease polymerase chain reaction (real-time PCR) oriented to sfmD gene. In Letters in Applied Microbiology, 2005, vol. 41, p. 132-135. (2004: 1.461 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/j.1472-765X.2005.01736.x

Citácie:
1. [1.1] STHAPIT, Niva - MALLA, Bikash - TANDUKAR, Sarmila - SHRESTHA, Rajani Ghaju - THAKALI, Ocean - SHERCHAND, Jeevan B. - HARAMOTO, Eiji - KAZAMA, Futaba. Occurrence and Reduction of Shiga Toxin-Producing Escherichia coli in Wastewaters in the Kathmandu Valley, Nepal. In WATER, 2022, vol. 14, no. 14, pp. Dostupné na: https://doi.org/10.3390/w14142224, Registrované v: WOS

ADCA141 KACLIKOVA, E. - KRASCENICSOVA, K. - PANGALLO, Domenico - KUCHTA, T. Detection and quantification of Citrobacter freundii and Citrobacter braakii by 5'-nuclease polymerase chain reaction. In Current Microbiology, 2005, vol. 51, p. 229-232. ISSN 0343-8651. Dostupné na: https://doi.org/10.1007/s00284-005-4528-3

Citácie:
1. [1.1] CHAMBLISS, Allison B. - VAN, Tam T. Revisiting approaches to and considerations for urinalysis and urine culture reflexive testing. In CRITICAL REVIEWS IN CLINICAL LABORATORY SCIENCES, 2022, vol. 59, no. 2, pp. 112-124. ISSN 1040-8363. Dostupné na: https://doi.org/10.1080/10408363.2021.1988048, Registrované v: WOS

ADCA142 KAMLÁROVÁ, Anna - CHOVANOVÁ, Katarína - ZÁMOCKÝ, Marcel**. Peculiar genes for thermostable bifunctional catalase-peroxidases in Chaetomium thermophilum and their molecular evolution. In Gene, 2018, vol. 666, p. 83-91. (2017: 2.498 - IF, Q3 - JCR, 1.019 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2018.05.007

Citácie:
1. [1.1] VARGAS-MAYA, N.I. - OLMEDO-MONFIL, V. - RAMIREZ-PRADO, J.H. - REYES-CORTES, R. - PADILLA-VACA, F. - FRANCO, B. Catalases in the pathogenesis of Sporothrix schenckii research. In PEERJ. ISSN 2167-8359, DEC 7 2022, vol. 10., Registrované v: WOS

ADCA143 KAPUSTOVÁ, Magdaléna* - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - GRANATA, Giuseppe* - NAPOLI, Edoardo - ANNUŠOVÁ, Adriana - MESÁROŠOVÁ, Monika - KOZICS, Katarína - PANGALLO, Domenico** - GERACI, Coradda**. Biofilm inhibition by biocompatible poly(epsilon-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. In International Journal of Pharmaceutics, 2021, vol. 606, no. 12, art. no. 120846. (2020: 5.875 - IF, Q1 - JCR, 1.153 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0378-5173. Dostupné na: https://doi.org/10.1016/j.ijpharm.2021.120846

Citácie:
1. [1.1] BORA, Larisa - AVRAM, Stefana - PAVEL, Ioana Zinuca - MUNTEAN, Delia - LIGA, Sergio - BUDA, Valentina - GURGUS, Daniela - DANCIU, Corina. An Up-To-Date Review Regarding Cutaneous Benefits of Origanum vulgare L. Essential Oil. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 5. ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11050549, Registrované v: WOS
2. [1.1] BORA, Larisa - BURKARD, Tobias - JUAN, Martina Herrero San - RADEKE, Heinfried H. - MUT, Ana Maria - VLAIA, Lavinia Lia - MAGYARI-PAVEL, Ioana Zinuca - DIACONEASA, Zorita - SOCACI, Sonia - BORCAN, Florin - KIS, Brigitta - MUNTEAN, Delia - DEHELEAN, Cristina Adriana - DANCIU, Corina. Phytochemical Characterization and Biological Evaluation of Origanum vulgare L. Essential Oil Formulated as Polymeric Micelles Drug Delivery Systems. In PHARMACEUTICS, 2022, vol. 14, no. 11. Dostupné na: https://doi.org/10.3390/pharmaceutics14112413, Registrované v: WOS
3. [1.1] COMINI, Sara - SCUTERA, Sara - SPARTI, Rosaria - BANCHE, Giuliana - COPPOLA, Bartolomeo - BERTEA, Cinzia Margherita - BIANCO, Gabriele - GATTI, Noemi - CUFFINI, Anna Maria - PALMERO, Paola - ALLIZOND, Valeria. Combination of Poly(epsilon-Caprolactone) Biomaterials and Essential Oils to Achieve Anti-Bacterial and Osteo-Proliferative Properties for 3D-Scaffolds in Regenerative Medicine. In PHARMACEUTICS, 2022, vol. 14, no. 9. Dostupné na: https://doi.org/10.3390/pharmaceutics14091873, Registrované v: WOS
4. [1.1] HRYNYSHYN, Andriy - SIMOES, Manuel - BORGES, Anabela. Biofilms in Surgical Site

Infections: Recent Advances and Novel Prevention and Eradication Strategies. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 1. ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11010069, Registrované v: WOS
5. [1.1] MEKKAOUI, Mouna - ASSAGGAF, Hamza - QASEM, Ahmed - EL-SHEMI, Adel - ABDALLAH, Emad M. - BOUIDIDA, El Houcine - MRABTI, Hanae Naceiri - CHERRAH, Yahya - ALAOUI, Katim. Ethnopharmacological Survey and Comparative Study of the Healing Activity of Moroccan Thyme Honey and Its Mixture with Selected Essential Oils on Two Types of Wounds on Albino Rabbits. In FOODS, 2022, vol. 11, no. 1, pp. Dostupné na: https://doi.org/10.3390/foods11010028, Registrované v: WOS
6. [1.1] SAOULAJAN, Charfi - BOUJIDA, Nadia - EL MIHYAOUI, Amina - EL BAAKILI, Aafaf - ALSHAHRANI, Mohammed Merae - LEE, Learn-Han - BOUYAHYA, Abdelhakim. Phytochemistry, pharmacological investigations, industrial applications, and encapsulation of Thymbra capitata L., a review. In TRENDS IN FOOD SCIENCE & TECHNOLOGY, 2022, vol. 129, pp. 463-491. ISSN 0924-2244. Dostupné na: https://doi.org/10.1016/j.tifs.2022.10.014, Registrované v: WOS
7. [1.1] VITALI, Alberto - STRINGARO, Annarita - COLONE, Marisa - MUNTIU, Alexandra - ANGIOLELLA, Letizia. Antifungal Carvacrol Loaded Chitosan Nanoparticles. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 1. ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11010011, Registrované v: WOS
8. [1.1] XIAO, Zuobing - LIU, Huiqin - ZHAO, Qixuan - NIU, Yunwei - ZHAO, Di. Silk fibroin/polydopamine modified nanocapsules for high-performance adhesion. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 2022, vol. 646. ISSN 0927-7757. Dostupné na: https://doi.org/10.1016/j.colsurfa.2022.128951, Registrované v: WOS
9. [1.1] YALDIZ, Burcu - SAGLAM-METINER, Pelin - CAKMAK, Betul - KAYA, Elif - DELIOGULLARI, Buse - YESIL-CELIKTAS, Ozlem. Essential Oil and Supercritical Carbon Dioxide Extract of Grapefruit Peels Formulated for Candida albicans Infections: Evaluation by an in Vitro Model to Study Fungal-Host Interactions. In ACS OMEGA, 2022, vol. 7, no. 42, pp. 37427-37435. ISSN 2470-1343. Dostupné na: https://doi.org/10.1021/acsomega.2c04189, Registrované v: WOS

ADCA144 KENYON, W.J. - NICHOLSON, K.L. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - PORTILLO, F.G. - FINLAY, B.B. - PALLEN, M. - KORMANEC, Ján - SPECTOR, M. SigS dependent carbon-starvation-induction of pbpG (PBP7) is required for the starvation-stress response in Salmonella enterica serovar Typhimurium. In Microbiology : international journal, 2007, vol. 153, no. 7, p. 2148-2158. (2006: 3.139 - IF, Q2 - JCR, 1.794 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.2007/005199-0

Citácie:
1. [1.1] GONZALEZ-LOPEZ, Irvin - MEDRANO-FELIX, Jose Andres - CASTRO-DEL CAMPO, Nohelia - LOPEZ-CUEVAS, Osvaldo - IBARRA RODRIGUEZ, Juan Ramon - MARTINEZ-RODRIGUEZ, Celida - BENIGNO VALDEZ-TORRES, Jose - CHAIDEZ, Cristobal. Metabolic plasticity of Salmonella enterica as adaptation strategy in river water. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL HEALTH RESEARCH, 2022, vol. 32, no. 7, pp. 1529-1541. ISSN 0960-3123. Dostupné na: https://doi.org/10.1080/09603123.2021.1896682, Registrované v: WOS

ADCA145 KEREICHE, S. - KOVÁČIK, L. - BEDNÁR, J. - PEVALA, Vladimír - KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - AMBRO, Ľuboš - BELLOVÁ, Jana - KUTEJOVÁ, Eva - RAŠKA, I. The N-terminal domain plays a crucial role in the structure of a full-length human mitochondrial Lon protease. In Scientific Reports, 2016, vol. 6, no. 33631, p. 1-10. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep33631

Citácie:
1. [1.1] KUDZHAEV, A.M. - ANDRIANOVA, A.G. - GUSTCHINA, A.E. - SMIRNOV, I.V. - ROTANOVA, T.V. ATP-Dependent Lon Proteases in the Cellular Protein Quality Control System. In RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY. ISSN 1068-1620, AUG 2022, vol. 48, no. 4, p. 678-709. Dostupné na: https://doi.org/10.1134/S1068162022040136, Registrované v: WOS
2. [1.1] MA, H.Z. - CHEN, W.T. - FAN, W.G. - HE, H.W. - HUANG, F. Roles of LonP1 in Oral-Maxillofacial Developmental Defects and Tumors: A Novel Insight. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 21. Dostupné na: https://doi.org/10.3390/ijms232113370, Registrované v: WOS
3. [1.1] MOHAMMED, I. - SCHMITZ, K.A. - SCHENCK, N. - BALASOPOULOS, D. - TOPITSCH, A. - MAIER, T. - ABRAHAMS, J.P. Catalytic cycling of human mitochondrial Lon protease. In STRUCTURE. ISSN 0969-2126, SEP 1 2022, vol. 30, no. 9, p. 1254-+. Dostupné na: https://doi.org/10.1016/j.str.2022.06.006, Registrované v: WOS

4. [1.1] WLODAWER, A. - SEKULA, B. - GUSTCHINA, A. - ROTANOVA, T.V. Structure and the Mode of Activity of Lon Proteases from Diverse Organisms. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, APR 15 2022, vol. 434, no. 7. Dostupné na: https://doi.org/10.1016/j.jmb.2022.167504, Registrované v: WOS

5. [1.1] ZANINI, G. - SELLERI, V. - DE GAETANO, A. - GIBELLINI, L. - MALERBA, M. - MATTIOLI, A.V. - NASI, M. - APOSTOLOVA, N. - PINTI, M. Differential Expression of Lonp1 Isoforms in Cancer Cells. In CELLS. DEC 2022, vol. 11, no. 23. Dostupné na: https://doi.org/10.3390/cells11233940, Registrované v: WOS

ADCA146 KERENYIOVÁ, Lenka - JANEČEK, Štefan**. Extension of the taxonomic coverage of the family GH126 outside Firmicutes and in silico characterization of its non-catalytic terminal domains. In 3 Biotech, 2020, vol. 10, no. 420. (2019: 1.798 - IF, Q3 - JCR, 0.543 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-020-02415-x

Citácie:

1. [1.1] KIKANI, B.A. - SUTHAR, S. - JOSHI, D. Nanomaterials: An Efficient Support to Immobilize Microbial alpha-Amylases for Improved Starch Hydrolysis. In STARCH-STARKE. ISSN 0038-9056, SEP 2022, vol. 74, no. 9-10., Registrované v: WOS

ADCA147 KERENYIOVÁ, Lenka - JANEČEK, Štefan. A detailed in silico analysis of the amylolytic family GH126 and its possible relatedness to family GH76. In Carbohydrate Research, 2020, vol. 494, no. 108082. (2019: 1.841 - IF, Q2 - JCR, 0.501 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2020.108082

Citácie:

1. [1.1] SURVE, S. - SHINDE, D.B. - KULKARNI, R. Isolation, characterization and comparative genomics of potentially probiotic Lactiplantibacillus plantarum strains from Indian foods. In SCIENTIFIC REPORTS. ISSN 2045-2322, FEB 4 2022, vol. 12, no. 1., Registrované v: WOS

ADCA148 KERRY, V. - BUKOVSKÁ, Gabriela - KRAUS, J.P. Transsulfuration depends on heme in addition to pyridoxal 5';-phosphate. Cystathionine beta-synthase is a heme protein. In Journal of Biological Chemistry, 1994, vol. 269, p. 25283-25288. (1993: 6.793 - IF, karentované - CCC). (1994 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] REN, W.F. - ZENG, Z.C. - WANG, S.J. - ZHANG, J.C. - FANG, J.H. - WAN, L.Y. Global Survey, Expressions and Association Analysis of CBLL Genes in Peanut. In FRONTIERS IN GENETICS. MAR 9 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fgene.2022.821163, Registrované v: WOS

2. [1.1] YUAN, Z.N. - CRUZ, L.K.D. - YANG, X.X. - WANG, B.H. Carbon Monoxide Signaling: Examining Its Engagement with Various Molecular Targets in the Context of Binding Affinity, Concentration, and Biologic ResponseS. In PHARMACOLOGICAL REVIEWS. ISSN 0031-6997, JUL 2022, vol. 74, no. 3, p. 823-873. Dostupné na: https://doi.org/10.1124/pharmrev.121.000564, Registrované v: WOS

3. [1.2] CARBALLAL, Sebastián - BANERJEE, Ruma. Overview of cysteine metabolism. In Redox Chemistry and Biology of Thiols, 2022-01-01, pp. 423-450. Dostupné na: https://doi.org/10.1016/B978-0-323-90219-9.00016-9, Registrované v: SCOPUS

ADCA149 KLUCAR, L., Ľuboš - STANO, Matej - HAJDUK, Matúš. phiSITE: database of gene regulation in bacteriophages. In Nucleic acids research, 2010, vol. 38, p. D366-D370. (2009: 7.479 - IF, 5.669 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0305-1048. Dostupné na: https://doi.org/10.1093/nar/gkp911

Citácie:

1. [1.1] CHO, S.G. - SONG, M. - CHUON, K. - SHIM, J.G. - MEAS, S. - JUNG, K.H. Heliorhodopsin binds and regulates glutamine synthetase activity. In PLOS BIOLOGY. ISSN 1544-9173, OCT 2022, vol. 20, no. 10. Dostupné na: https://doi.org/10.1371/journal.pbio.3001817, Registrované v: WOS

2. [1.1] FERREIRA, R. - SOUSA, C. - GONçALVES, R.F.S. - PINHEIRO, A.C. - OLEASTRO, M. - WAGEMANS, J. - LAVIGNE, R. - FIGUEIREDO, C. - AZEREDO, J. - MELO, L.D.R. Characterization and Genomic Analysis of a New Phage Infecting Helicobacter pylori. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUL 2022, vol. 23, no. 14. Dostupné na: https://doi.org/10.3390/ijms23147885, Registrované v: WOS

3. [1.1] SANDLIN, N. - KISH, D.R. - KIM, J. - ZACCARIA, M. - MOMENI, B. Current and Emerging Tools of Computational Biology To Improve the Detoxification of Mycotoxins. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, FEB 2022, vol. 88, no. 3. Dostupné na: https://doi.org/10.1128/aem.02102-21, Registrované v: WOS

4. [1.1] SHUJAAT, M. - JIN, J.S. - TAYARA, H. - CHONG, K.T. iProm-phage: A two-layer model to identify phage promoters and their types using a convolutional neural network. In FRONTIERS IN MICROBIOLOGY. NOV 4 2022, vol. 13. Dostupné na:

https://doi.org/10.3389/fmicb.2022.1061122, *Registrované v: WOS*
5. [1.1] SPANGLER, J.R. - COOPER, D.N. - MALANOSKI, A.P. - WALPER, S.A. Promoter Identification and Optimization for the Response of Lactobacillus plantarum WCFS1 to the Gram-Negative Pathogen-Associated Molecule N-3-Oxododecanoyl Homoserine Lactone. In ACS BIOMATERIALS SCIENCE & ENGINEERING. ISSN 2373-9878, JUN 16 2022, vol. 9, no. 9, p. 5111-5122. Dostupné na: https://doi.org/10.1021/acsbiomaterials.1c01191, *Registrované v: WOS*
6. [1.1] SUZUKI, Y. - SAKAIZAWA, N. - TAKAI, S. - KUBOTA, H. - HASEGAWA, N. - SASAKI, Y. - KAKUDA, T. An Autobioluminescent Method for Evaluating In Vitro and In Vivo Growth of Rhodococcus equi. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, JUN 2022, vol. 10, no. 3. Dostupné na: https://doi.org/10.1128/spectrum.00758-22, *Registrované v: WOS*
7. [1.1] WANG, C. - ZHANG, J.Y. - CHENG, L. - WU, J.W. - XIAO, M.F. - XIA, J.F. - BIN, Y.N. DPProm: A Two-Layer Predictor for Identifying Promoters and Their Types on Phage Genome Using Deep Learning. In IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. ISSN 2168-2194, OCT 2022, vol. 26, no. 10, p. 5258-5266. Dostupné na: https://doi.org/10.1109/JBHI.2022.3193224, *Registrované v: WOS*
8. [1.1] YUN, K.Y. - ZHANG, Y. - LI, S.X. - WANG, Y. - TU, R. - LIU, H. - WANG, M. Droplet-Microfluidic-Based Promoter Engineering and Expression Fine-Tuning for Improved Erythromycin Production in Saccharopolyspora erythraea NRRL 23338. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, APR 4 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fbioe.2022.864977, *Registrované v: WOS*
9. [1.2] SAHU, Abhishek - DASH, Rutumbara - PANDA, Manasa Kumar - SINGH, Yengkhom Disco. Viroinformatics: a modern approach to counter viral diseases through computational informatics. In Translational Bioinformatics in Healthcare and Medicine, 2021-01-01, 13, pp. 157-169. Dostupné na: https://doi.org/10.1016/B978-0-323-89824-9.00013-6, *Registrované v: SCOPUS*

ADCA150 KNIRSCHOVÁ, Renáta - NOVÁKOVÁ, Renáta - MINGYAR, Erik - BEKEOVÁ, Carmen - HOMEROVÁ, Dagmar - KORMANEC, Ján. Utilization of a reporter system based on the blue pigment indigoidine biosynthetic gene bpsA for detection of promoter activity and deletion of genes in Streptomyces. In Journal of microbiological methods, 2015, vol. 113, p. 1-3. (2014: 2.026 - IF, Q3 - JCR, 0.910 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0167-7012. Dostupné na: https://doi.org/10.1016/j.mimet.2015.03.017

Citácie:
1. [1.1] SANTOS, L.D.F. - CARATY-PHILIPPE, L. - DARBON, E. - PERNODET, J.L. Marker-Free Genome Engineering in Amycolatopsis Using the pSAM2 Site-Specific Recombination System. In MICROORGANISMS. APR 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.3390/microorganisms10040828, *Registrované v: WOS*
2. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_11, *Registrované v: SCOPUS*

ADCA151 KNIRSCHOVÁ, Renáta - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - TIMKO, Jozef - TURŇA, Ján - BISTAKOVA, J. - KORMANEC, Ján. Multiple regulatory genes in the salinomycin biosynthetic gene cluster of Streptomyces albus CCM 4719. In Folia Microbiologica, 2007, vol. 52, no. 4, pp. 359-365. (2006: 0.963 - IF, Q3 - JCR, 0.382 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/BF02932090

Citácie:
1. [1.1] ZHANG, Naifan - DONG, Yao - ZHOU, Hongli - CUI, Hao. Effect of PAS-LuxR Family Regulators on the Secondary Metabolism of Streptomyces. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 12, pp. ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11121783, *Registrované v: WOS*

ADCA152 KOPTIDES, M. - BARÁK, Imrich - SISOVA, M. - BALOGHOVA, E. - UGORČÁKOVÁ, Jana - TIMKO, Jozef. Characterization of bacteriophage BFK20 from brevibacterium-flavum. In Journal of General Microbiology, 1992, vol. 138, p. 1387-1391. Dostupné na: https://doi.org/10.1099/00221287-138-7-1387

Citácie:
1. [1.1] HASHIRO, S. - YASUEDA, H. RNA Interference-Based Pesticides and Antiviral Agents: Microbial Overproduction Systems for Double-Stranded RNA for Applications in Agriculture and Aquaculture. In APPLIED SCIENCES-BASEL. MAR 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/app12062954, *Registrované v: WOS*

ADCA153 KORMANEC, Ján** - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - ŠEVČÍKOVÁ, Beatrica - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra. Recent

achievements in the generation of stable genome alterations/mutations in species of the genus Streptomyces. In Applied Microbiology and Biotechnology, 2019, vol. 103, p. 5463–5482. (2018: 3.670 - IF, Q2 - JCR, 1.127 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-019-09901-0

Citácie:

1. [1.1] LI, J. - WANG, B.Y. - YANG, Q. - SI, H. - ZHAO, Y.T. - ZHENG, Y.L. - PENG, W.F. Enabling Efficient Genetic Manipulations in a Rare Actinomycete Pseudonocardia alni Shahu. In FRONTIERS IN MICROBIOLOGY. MAR 3 2022, vol. 13., Registrované v: WOS

2. [1.1] NGUYEN, J.T. - RIEBSCHLEGER, K.K. - BROWN, K.V. - GORGIJEVSKA, N.M. - NYBO, S.E. A BioBricks toolbox for metabolic engineering of the tetracenomycin pathway. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, MAR 2022, vol. 17, no. 3., Registrované v: WOS

3. [1.1] ZHANG, C.B. - ZHAO, Y.B. - LI, Z.L. - WANG, W.S. - HUANG, Y. - PAN, G.H. - FAN, K.Q. Molecular mechanism of GylR-mediated regulation of glycerol metabolism in Streptomyces clavuligerus NRRL 3585. In FRONTIERS IN MICROBIOLOGY. NOV 25 2022, vol. 13., Registrované v: WOS

4. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_11, Registrované v: SCOPUS

ADCA154 KORMANEC, Ján - ŠEVČÍKOVÁ, Beatrica - SPRUŠANSKÝ, Ondrej - BENADA, O. - KOFRONOVA, O. - NOVÁKOVÁ, Renáta - REŽUCHOVÁ, Bronislava - POTUCKOVA, L. - HOMEROVÁ, Dagmar. The Streptomyces aureofaciens homologue of the whiB gene is essential for sporulation and its expression correlates with the developmental stage. In Folia microbiologica, 1998, vol. 43, p. 605-612. (1997: 0.312 - IF, karentované - CCC). (1998 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/BF02816376

Citácie:

1. [1.1] ZHANG, Peipei - ZHANG, Kunyu - LIU, Yayu - FU, Jiafang - ZONG, Gongli - MA, Xin - CAO, Guangxiang. Deletion of the Response Regulator PhoP Accelerates the Formation of Aerial Mycelium and Spores in Actinosynnema pretiosum. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.845620, Registrované v: WOS

ADCA155 KORMANEC, Ján - ŠEVČÍKOVÁ, Beatrica. Stress-response sigma factor sigmaH directs expression of the gltB gene encoding glutamate synthase in Streptomyces coelicolor A3(2). In Biochimica et Biophysica Acta, 2002, vol. 1577, p. 149 – 154. Dostupné na: https://doi.org/10.1016/S0167-4781(02)00409-8

Citácie:

1. [1.1] BAIG, Mohd Affan - TURNER, Mark S. - LIU, Shao-Quan - SHAH, Nagendra N. - AYYASH, Mutamed M. Heat, cold, acid, and bile salt induced differential proteomic responses of a novel potential probiotic Lactococcus garvieae C47 isolated from camel milk. In FOOD CHEMISTRY, 2022, vol. 397, no., pp. ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2022.133774, Registrované v: WOS

2. [1.1] LIU, Jinjin - QIU, Shengjie - ZHANG, Liang - HE, Qiang - LI, Xiyao - ZHANG, Qiong - PENG, Yongzhen. Intermittent pH control strategy in sludge anaerobic fermentation: Higher short-chain fatty acids production, lower alkali consumption, and simpler control. In BIORESOURCE TECHNOLOGY, 2022, vol. 345, no., pp. ISSN 0960-8524. Dostupné na: https://doi.org/10.1016/j.biortech.2021.126517, Registrované v: WOS

ADCA156 KORMANEC, Ján - HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava. A method for isolation of small DNA fragments from agarose and polyacrylamide gels. In Analytical Biochemistry, 2001, vol. 293, p. 138-139. ISSN 0003-2697. Dostupné na: https://doi.org/10.1006/abio.2001.5048

Citácie:

1. [1.1] LUO, Siyu - MA, Lin - TIAN, Fei - GU, Yingqiu - LI, Jingjing - ZHANG, Peng - YANG, Guohai - LI, Haitao - QU, Lu-Lu. Fluorescence and surface-enhanced Raman scattering dual-mode nanoprobe for monitoring telomerase activity in living cells. In MICROCHEMICAL JOURNAL, 2022, vol. 175, no., pp. ISSN 0026-265X. Dostupné na: https://doi.org/10.1016/j.microc.2021.107171, Registrované v: WOS

ADCA157 KORMANEC, Ján - ŠEVČÍKOVÁ, Beatrica - HOMEROVÁ, Dagmar. Cloning of a two-component regulatory system likely involved in regulation of chitinase in Streptomyces coelicolor A3(2). In Folia Microbiologica, 2000, vol. 45, p. 397-406. (1999: 0.402 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/BF02817612

Citácie:

1. [1.1] SANCHEZ DE LA NIETA, Ricardo - SANTAMARIA, Ramon - DIAZ, Margarita. Two-Component Systems of Streptomyces coelicolor: An Intricate Network to Be Unraveled. In

INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232315085, Registrované v: WOS

ADCA158 KORMANEC, Ján - SCHAAFF-GERSTENSCHLAGER, I. - ZIMMERMANN, F.K. - PEREČKO, D. - KUNTZEL, H. Nuclear migration in Saccharomyces cerevisiae is controlled by the highly repetitive 313 kD NUM1 protein. In Molecular Genetics and Genomics, 1991, vol. 230, p. 277-287. ISSN 1617-4615. Dostupné na: https://doi.org/10.1007/BF00290678

Citácie:

1. [1.1] ANDERSON, H.L. - CASLER, J.C. - LACKNER, L.L. Hierarchical integration of mitochondrial and nuclear positioning pathways by the Num1 EF hand. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, FEB 1 2022, vol. 33, no. 2. Dostupné na: https://doi.org/10.1091/mbc.E21-12-0610-T, Registrované v: WOS

2. [1.1] GILLIES, J.P. - REIMER, J.M. - KARASMANIS, E.P. - LAHIRI, I. - HTET, Z.M. - LESCHZINER, A.E. - RECK-PETERSON, S.L. Structural basis for cytoplasmic dynein-1 regulation by Lis1. In ELIFE. ISSN 2050-084X, JAN 7 2022, vol. 11. Dostupné na: https://doi.org/10.7554/eLife.71229; 10.7554/eLife.71229.sa0; 10.7554/eLife.71229.sa1;, Registrované v: WOS

ADCA159 KORMANEC, Ján - ŠEVČÍKOVÁ, Beatrica. The stress-response sigma factor sigmaH controls the expression of ssgB, a homologue of the sporulation-specific cell division gene ssgA in Streptomyces coelicolor A3(2). In Molecular Genetics and Genomics, 2002, vol. 267, p. 536-543. ISSN 1617-4615. Dostupné na: https://doi.org/10.1007/s00438-002-0687-0

Citácie:

1. [1.1] FALGUERA, Jan V. T. - STRATTON, Kathryn J. - BUSH, Matthew J. - JANI, Charul - FINDLAY, Kim C. - SCHLIMPERT, Susan - NODWELL, Justin R. DNA damage- induced block of sporulation in Streptomyces venezuelae involves downregulation of ssgB. In MICROBIOLOGY-SGM, 2022, vol. 168, no. 6, pp. ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.001198, Registrované v: WOS

ADCA160 KORMANEC, Ján** - NOVÁKOVÁ, Renáta - CSÖLLEIOVÁ, Dominika - FECKOVÁ, Ľubomíra - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - HOMEROVÁ, Dagmar. The antitumor antibiotic mithramycin: new advanced approaches in modification and production. In Applied Microbiology and Biotechnology, 2020, vol. 104, p. 7701–7721. (2019: 3.530 - IF, Q2 - JCR, 1.058 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-020-10782-x

Citácie:

1. [1.1] ARANDA, F.L. - RIVAS, B.L. REMOVAL OF AMOXICILLIN THROUGH DIFFERENT METHODS, EMPHASIZING REMOVAL BY BIOPOLYMERS AND ITS DERIVATIVES. AN OVERVIEW. In JOURNAL OF THE CHILEAN CHEMICAL SOCIETY. ISSN 0717-9707, SEP 2022, vol. 67, no. 3, p. 5643-5655., Registrované v: WOS

2. [1.1] FLORENCIO, K.G.D. - EDSON, E.A. - FERNANDES, K.S.D. - LUIZ, J.P.M. - PINTO, F.D.L. - PESSOA, O.D.L. - CUNHA, F.D. - MACHADO-NETO, J.A. - WILKE, D.V. Chromomycin A(5) induces bona fide immunogenic cell death in melanoma. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, NOV 9 2022, vol. 13., Registrované v: WOS

3. [1.1] GONG, J.H. - JI, Y.Y. - LIU, X.J. - ZHENG, Y.B. - ZHEN, Y.S. Mithramycin suppresses tumor growth by regulating CD47 and PD-L1 expression. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, MAR 2022, vol. 197., Registrované v: WOS

4. [1.1] WANG, H.B. - HE, Y. - JIAN, M.L. - FU, X.G. - CHENG, Y.H. - HE, Y.J. - FANG, J. - LI, L. - ZHANG, D. Breaking the Bottleneck in Anticancer Drug Development: Efficient Utilization of Synthetic Biology. In MOLECULES. NOV 2022, vol. 27, no. 21., Registrované v: WOS

5. [1.1] WANG, H.Y. - WANG, L.J. - FAN, K.Q. - PAN, G.H. Tetracycline natural products: discovery, biosynthesis and engineering. In CHINESE JOURNAL OF NATURAL MEDICINES. ISSN 2095-6975, OCT 2022, vol. 20, no. 10, p. 773-794., Registrované v: WOS

ADCA161 KORMUTAKOVA, R. - KĽUČÁR, Ľuboš - TURNA, J., Ján. DNA sequence analysis of the tellurite-resistance determinant from clinical strain of Escherichia Coli and identification of essential genes. In Biometals, 2000, vol. 13, p. 135-139. ISSN 0966-0844. Dostupné na: https://doi.org/10.1023/A:1009272122989

Citácie:

1. [1.1] FARIAS, Pedro - FRANCISCO, Romeu - MORAIS, Paula. Potential of tellurite resistance in heterotrophic bacteria from mining environments. In ISCIENCE, 2022, vol. 25, no. 7, pp. Dostupné na: https://doi.org/10.1016/j.isci.2022.104566, Registrované v: WOS

ADCA162 KOTRASOVÁ, Veronika* - STOJKOVIČOVÁ, Barbora* - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - HAVALOVÁ, Henrieta - PEVALA, Vladimír - KUTEJOVÁ, Eva** - KUNOVÁ, Nina**. Mitochondrial kinases and the role of mitochondrial protein phosphorylation in health and disease. In Life-Basel, 2021, vol. 11, p. 82. (2020: 3.817 - IF, Q2 - JCR, 0.973 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-1729. Dostupné na:

https://doi.org/10.3390/life11020082

Citácie:

1. [1.1] BORBA, J.V.V.B. - SILVA, A.D.E. - DO NASCIMENTO, M.N. - FERREIRA, L.T. - RIMOLDI, A. - STARLING, L. - RAMOS, P.I.P. - COSTA, F.T.M. - ANDRADE, C.H. Update and elucidation of Plasmodium kinomes: Prioritization of kinases as potential drug targets for malaria. In COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL. ISSN 2001-0370, 2022, vol. 20, p. 3708-3717., Registrované v: WOS

2. [1.1] GAZDOVA, M. - MICHALKOVA, R. - KELLO, M. - VILKOVA, M. - KUDLICKOVA, Z. - BALOGHOVA, J. - MIROSSAY, L. - MOJZIS, J. Chalcone-Acridine Hybrid Suppresses Melanoma Cell Progression via G2/M Cell Cycle Arrest, DNA Damage, Apoptosis, and Modulation of MAP Kinases Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2022, vol. 23, no. 20., Registrované v: WOS

3. [1.1] JEFFERI, N.E.S. - SHAMHARI, A.A. - ABD HAMID, Z. - BUDIN, S.B. - ZULKIFLY, A.M.Z. - ROSLAN, F.N. - TAIB, I.S. Knowledge Gap in Understanding the Steroidogenic Acute Regulatory Protein Regulation in Steroidogenesis Following Exposure to Bisphenol A and Its Analogues. In BIOMEDICINES. JUN 2022, vol. 10, no. 6., Registrované v: WOS

4. [1.1] WALKOWSKI, B. - KLEIBERT, M. - MAJKA, M. - WOJCIECHOWSKA, M. Insight into the Role of the PI3K/Akt Pathway in Ischemic Injury and Post-Infarct Left Ventricular Remodeling in Normal and Diabetic Heart. In CELLS. MAY 2022, vol. 11, no. 9., Registrované v: WOS

ADCA163 KOZICS, Katarína - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KALÁSZOVÁ, V. - CABICAROVÁ, T. - PANGALLO, Domenico**. The effect of ten essential oils on several cutaneous drug-resistant microorganisms and their cyto/genotoxic and antioxidant properties. In Molecules, 2019, vol. 24, no. 24, art. no. 4570. (2018: 3.060 - IF, Q2 - JCR, 0.757 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules24244570 (VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro)

Citácie:

1. [1.1] ALEXA, V.T. - GALUSCAN, A. - SOICA, C.M. - COZMA, A. - CORICOVAC, D. - BORCAN, F. - POPESCU, I. - MIOC, A. - SZUHANEK, C. - DEHELEAN, C.A. - JUMANCA, D. In Vitro Assessment of the Cytotoxic and Antiproliferative Profile of Natural Preparations Containing Bergamot, Orange and Clove Essential Oils. In MOLECULES. FEB 2022, vol. 27, no. 3. Dostupné na: https://doi.org/10.3390/molecules27030990, Registrované v: WOS

2. [1.1] BORA, L. - AVRAM, S. - PAVEL, I.Z. - MUNTEAN, D. - LIGA, S. - BUDA, V. - GURGUS, D. - DANCIU, C. An Up-To-Date Review Regarding Cutaneous Benefits of Origanum vulgare L. Essential Oil. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAY 2022, vol. 11, no. 5. Dostupné na: https://doi.org/10.3390/antibiotics11050549, Registrované v: WOS

3. [1.1] BORA, L. - BURKARD, T. - JUAN, M.H.S. - RADEKE, H.H. - MUT, A.M. - VLAIA, L.L. - MAGYARI-PAVEL, I.Z. - DIACONEASA, Z. - SOCACI, S. - BORCAN, F. - KIS, B. - MUNTEAN, D. - DEHELEAN, C.A. - DANCIU, C. Phytochemical Characterization and Biological Evaluation of Origanum vulgare L. Essential Oil Formulated as Polymeric Micelles Drug Delivery Systems. In PHARMACEUTICS. NOV 2022, vol. 14, no. 11. Dostupné na: https://doi.org/10.3390/pharmaceutics14112413, Registrované v: WOS

4. [1.1] FERNANDES, L. - GONCALVES, B. - COSTA, R. - FERNANDES, A. - GOMES, A. - NOGUEIRA-SILVA, C. - SILVA, S. - RODRIGUES, M.E. - HENRIQUES, M. Vapor-Phase of Essential Oils as a Promising Solution to Prevent Candida Vaginal Biofilms Caused by Antifungal Resistant Strains. In HEALTHCARE. SEP 2022, vol. 10, no. 9. Dostupné na: https://doi.org/10.3390/healthcare10091649, Registrované v: WOS

5. [1.1] FERNANDES, L. - RIBEIRO, R. - COSTA, R. - HENRIQUES, M. - RODRIGUES, M.E. Essential Oils as a Good Weapon against Drug-Resistant Candida auris. In ANTIBIOTICS-BASEL. ISSN 2079-6382, JUL 2022, vol. 11, no. 7. Dostupné na: https://doi.org/10.3390/antibiotics11070977, Registrované v: WOS

6. [1.1] GANEA, M. - NAGY, C. - TEODORESCU, A.G. - LESYAN, M. - HANGA-FARCAS, A. - HORVATH, T. - MIERE, F. PRELIMINARY STUDIES ON THE FORMULATION OF VAGINAL SUPPOSITORIES WITH LIPOSOMAL OREGANO OIL. In PHARMACOPHORE. ISSN 2229-5402, 2022, vol. 13, no. 6, p. 61-69. Dostupné na: https://doi.org/10.51847/YbqmdZD3Tn, Registrované v: WOS

7. [1.1] GANIC, T. - VULETIC, S. - NIKOLIC, B. - STEVANOVIC, M. - KUZMANOVIC, M. - KEKIC, D. - DUROVIC, S. - CVETKOVIC, S. - MITIC-CULAFIC, D. Cinnamon essential oil and its emulsion as efficient antibiofilm agents to combat Acinetobacter baumannii. In FRONTIERS IN MICROBIOLOGY. OCT 10 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.989667, Registrované v: WOS

8. [1.1] MICHALAK, M. Plant-Derived Antioxidants: Significance in Skin Health and the Ageing Process. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2022, vol. 23, no.

2. Dostupné na: https://doi.org/10.3390/ijms23020585, Registrované v: WOS
9. [1.1] SCANDORIEIRO, S. - RODRIGUES, B.C.D. - NISHIO, E.K. - PANAGIO, L.A. - DE OLIVEIRA, A.G. - DURAN, N. - NAKAZATO, G. - KOBAYASHI, R.K.T. Biogenic Silver Nanoparticles Strategically Combined With Origanum vulgare Derivatives: Antibacterial Mechanism of Action and Effect on Multidrug-Resistant Strains. In FRONTIERS IN MICROBIOLOGY. MAY 6 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.842600, Registrované v: WOS
10. [1.1] SILVEIRA, J.D. - BRASIL, C.L. - BRAGA, C.Q. - MOREIRA, A.D. - FRANZ, H.C. - ZAMBONI, R. - SALLIS, E.S. - ALBANO, A.P. - ZAMBRANO, C.G. - ARAUJO, L.C. - DA SILVA, C.D. - POTTER, L. - BOTTON, S.D. - PEREIRA, D.I.B. Melaleuca alternifolia formulations in the treatment of experimental pythiosis. In BRAZILIAN JOURNAL OF MICROBIOLOGY. ISSN 1517-8382, JUN 2022, vol. 53, no. 2, p. 1011-1017. Dostupné na: https://doi.org/10.1007/s42770-022-00720-6, Registrované v: WOS
11. [1.1] VARBAN, D. - ZAHAN, M. - POP, C.R. - SOCACI, S. - STEFAN, R. - CRISAN, I. - BOTA, L.E. - MICLEA, I. - MUSCA, A.S. - DEAC, A.M. - VARBAN, R. Physicochemical Characterization and Prospecting Biological Activity of Some Authentic Transylvanian Essential Oils: Lavender, Sage and Basil. In METABOLITES. OCT 2022, vol. 12, no. 10. Dostupné na: https://doi.org/10.3390/metabo12100962, Registrované v: WOS
12. [1.1] WOLDE, B. - ABAY, S.M. - NIGUSSIE, D. - LEGESSE, B. - MAKONNEN, E. - AYELE, T.M. Evaluation of Wound Healing and Antibacterial Activities of Solvent Fractions of 80% Methanol Leaf Extract of Brucea antidysenterica JF Mill (Simaroubaceae). In INFECTION AND DRUG RESISTANCE. ISSN 1178-6973, 2022, vol. 15, p. 1517-1531. Dostupné na: https://doi.org/10.2147/IDR.S360761, Registrované v: WOS
13. [1.1] ZAPATA-ZAPATA, C. - LOAIZA-OLIVA, M. - MARTINEZ-PABON, M.C. - STASHENKO, E.E. - MESA-ARANGO, A.C. In Vitro Activity of Essential Oils Distilled from Colombian Plants against Candida auris and Other Candida Species with Different Antifungal Susceptibility Profiles. In MOLECULES. OCT 2022, vol. 27, no. 20. Dostupné na: https://doi.org/10.3390/molecules27206837, Registrované v: WOS
14. [1.2] GANDOVA, Vanya - PETKOVA, Nadezhda - GEORGIEVA, Darina - STOYANOVA, Albena - KOLEVA, Yana. Salvia sclarea essential oil: Antioxidant capasity, kinetic and thermodynamic investigation. In 2022 8th International Conference on Energy Efficiency and Agricultural Engineering, EE and AE 2022 Proceedings, 2022-01-01, pp. Dostupné na: https://doi.org/10.1109/EEAE53789.2022.9831421, Registrované v: SCOPUS
15. [1.2] PATIL, Aishwarya Rajendra - RAVI, M. B. - RAGHAVENDRA SWAMY, K. N. - ARCHER, Ann Catherine - SOWMYA, S. - SOANS, Sanya Hazel - ACHAR, Raghu Ram. Lemongrass oil disrupts the biofilm of Candida albicans MTCC 1637T on soft denture reliners at lower concentrations compared to thyme and tea tree oils. In Journal of Applied Biology and Biotechnology, 2022-03-01, 10, 2, pp. 108-115. Dostupné na: https://doi.org/10.7324/JABB.2022.100214, Registrované v: SCOPUS

ADCA164 KRAJČÍKOVÁ, Daniela - FORGÁČ, Vladimír - SZABO, Adam - BARÁK, Imrich. Exploring the interaction network of the Bacillus subtilis outer coat and crust proteins. In Microbiological Research, 2017, vol. 204, p. 72-80. (2016: 3.037 - IF, Q2 - JCR, 1.104 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2017.08.004

Citácie:

1. [1.1] GONCALVES, G. - SANTOS, R.A. - COUTINHO, F. - PEDROSA, N. - CURADO, M. - MACHADO, M. - COSTAS, B. - BONNEVILLE, L. - SERRANO, M. - CARVALHO, A.P. - DIAZ-ROSALES, P. - OLIVA-TELES, A. - COUTO, A. - SERRA, C.R. Oral vaccination of fish against vibriosis using spore-display technology. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, OCT 13 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fimmu.2022.1012301, Registrované v: WOS
2. [1.1] XU, X.M. - RACHEDI, R. - FOGLINO, M. - TALLA, E. - LATIFI, A. Interaction network among factors involved in heterocyst-patterning in cyanobacteria. In MOLECULAR GENETICS AND GENOMICS. ISSN 1617-4615, JUL 2022, vol. 297, no. 4, p. 999-1015. Dostupné na: https://doi.org/10.1007/s00438-022-01902-5, Registrované v: WOS

ADCA165 KRAJČÍKOVÁ, Daniela - LUKÁČOVÁ, Magdaléna - MULLEROVÁ, Denisa - CUTTING, S.M. - BARÁK, Imrich. Searching for protein-protein interactions within the bacillus subtilis spore coat. In Journal of Bacteriology, 2009, vol. 191, p. 3212-3219. (2008: 3.636 - IF, Q1 - JCR, 2.639 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.01807-08

Citácie:

1. [1.1] GONCALVES, Gabriela - SANTOS, Rafaela A. - COUTINHO, Filipe - PEDROSA, Neide - CURADO, Maria - MACHADO, Marina - COSTAS, Benjamin - BONNEVILLE, Lourenco -

SERRANO, Monica - CARVALHO, Antonio Paulo - DIAZ-ROSALES, Patricia - OLIVA-TELES, Aires - COUTO, Ana - SERRA, Claudia R. Oral vaccination of fish against vibriosis using spore-display technology. In FRONTIERS IN IMMUNOLOGY, 2022, vol. 13, no., pp. ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2022.1012301, Registrované v: WOS

ADCA166 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico. A novel PCR-based approach for the detection and classification of potential cellulolytic fungal strains isolated from museum items and surrounding indoor environment. In Letters in Applied Microbiology, 2012, vol. 54, p. 433-440. (2011: 1.622 - IF, Q3 - JCR, 0.749 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/j.1472-765X.2012.03227.x

Citácie:

1. [1.1] BONIEK, Douglas - DE ABREU, Crisia Santos - DOS SANTOS, Antonio Fernando Batista - DE RESENDE STOIANOFF, Maria Aparecida. Filamentous fungi in Brazilian indoor cultural heritage as potential risk to human health and biodeterioration of artworks. In AIR QUALITY ATMOSPHERE AND HEALTH, 2022, vol. 15, no. 2, pp. 339-346. ISSN 1873-9318. Dostupné na: https://doi.org/10.1007/s11869-021-01108-5, Registrované v: WOS

ADCA167 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - ŽENIŠOVÁ, K. - TURCOVSKÁ, V. - BREŽNÁ, Barbara - KUCHTA, T. - PANGALLO, Domenico. Yeast diversity investigation of wine-related samples from two different Slovakian wine-producing areas through a multistep procedure. In LWT - Food Science and Technology, 2012, vol. 46, p. 406-411. (2011: 2.545 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0023-6438. Dostupné na: https://doi.org/10.1016/j.lwt.2011.12.010

Citácie:

1. [1.1] REGECOVA, Ivana - SEMJON, Boris - JEVINOVA, Pavlina - OCENAS, Peter - VYROSTKOVA, Jana - SULAKOVA, Lucia - NOSKOVA, Erika - MARCINCAK, Slavomir - BARTKOVSKY, Martin. Detection of Microbiota during the Fermentation Process of Wine in Relation to the Biogenic Amine Content. In FOODS, 2022, vol. 11, no. 19, pp. Dostupné na: https://doi.org/10.3390/foods11193061, Registrované v: WOS

ADCA168 KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - SELIM, S.A. - ŠIMONOVIČOVÁ, A. - PUŠKÁROVÁ, Andrea - MAKOVÁ, A. - PANGALLO, Domenico. A multiphasic approach for investigation of the microbial diversity and its biodegradative abilities in historical paper and parchment documents. In International Biodeterioration & Biodegradation, 2012, vol. 70, p. 117-125. (2011: 2.074 - IF, Q2 - JCR, 0.917 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2012.01.011

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.1] CAPPA, F. - PIñAR, G. - BRENNER, S. - FRüHMANN, B. - WETTER, W. - SCHREINER, M. - ENGEL, P. - MIKLAS, H. - STERFLINGER, K. The Kiev Folia: An interdisciplinary approach to unravelling the past of an ancient Slavonic manuscript. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, FEB 2022, vol. 167. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105342, Registrované v: WOS

3. [1.1] ELDEEB, H.M.A. - ALI, M.F. - MANSOUR, M.M.A. - AHMED, M.A.A. - SALEM, M.Z.M. Monitoring the effects of fungi isolated from archival document on model albumen silver prints. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, AUG 2022, vol. 169. Dostupné na: https://doi.org/10.1016/j.micpath.2022.105632, Registrované v: WOS

4. [1.1] ILIES, D.C. - SAFAROV, B. - CACIORA, T. - ILIES, A. - GRAMA, V. - ILIES, G. - HUNIADI, A. - ZHARAS, B. - HODOR, N. - SANDOR, M. - ZSARNóCZKY, M.B. - PANTEA, E. - HERMAN, G.V. - DEJEU, P. - SZABO-ALEXI, M. - DAVID, L.D. Museal Indoor Air Quality and Public Health: An Integrated Approach for Exhibits Preservation and Ensuring Human Health. In SUSTAINABILITY. FEB 2022, vol. 14, no. 4. Dostupné na: https://doi.org/10.3390/su14042462, Registrované v: WOS

5. [1.1] LI, Q. - WU, C. - ZHANG, B.J. Hybrid hydrogels based on polyvinyl alcohol, branched polyethylenimine, polydopamine, and phosphonium-based ionic liquid for effective synergetic antibacterial applications. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, SEP 5 2022, vol. 648. Dostupné na: https://doi.org/10.1016/j.colsurfa.2022.129277, Registrované v: WOS

6. [1.1] NITIU, D.S. - MALLO, A.C. - SAPARRAT, M.C.N. PIGMENTS SYNTHESIZED BY DARK FUNGI AND THEIR IMPACT ON THE DETERIORATION OF DOCUMENTARY HERITAGE ON PAPER. In BOLETIN DE LA SOCIEDAD ARGENTINA DE BOTANICA. ISSN 1851-2372, JUN 2022, vol. 57, no. 2, p. 169-184. Dostupné na:

https://doi.org/10.31055/1851.2372.v57.n2.36580, Registrované v: WOS
7. [1.1] OSMAN, M.E. - ISMAEL, S. - CILIBERTO, E. - STEFANI, S. - ELSABA, Y.M. EVALUATION OF MICROBIAL DETERIORATION OF SILVER GELATIN PHOTOGRAPHS STORED IN AN OLD PHOTOGRAPHIC ARCHIVE. In INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE. ISSN 2067-533X, APR-JUN 2022, vol. 13, no. 2, p. 527-540., Registrované v: WOS
8. [1.1] PIñAR, G. - CAPPA, F. - VETTER, W. - SCHREINER, M. - MIKLAS, H. - STERFLINGER, K. Complementary Strategies for Deciphering the Information Contained in Ancient Parchment Documentary Materials. In APPLIED SCIENCES-BASEL. OCT 2022, vol. 12, no. 20. Dostupné na: https://doi.org/10.3390/app122010479, Registrované v: WOS
9. [1.1] RYBITWA, D. - WAWRZYK, A. - LOBACZ, M. - MACHOY, M. - ZELJAS, D. - WILCZYNSKI, S. Hyperspectral imaging and directional reflectance for predicting interaction of laser radiation with biodeteriorated objects threatening human health. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, SEP 2022, vol. 173. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105440, Registrované v: WOS
10. [1.1] SUPHAPHIMOL, N. - SUWANNARACH, N. - PURAHONG, W. - JAIKANG, C. - PENGPAT, K. - SEMAKUL, N. - YIMKLAN, S. - JONGJITNGAM, S. - JINDASU, S. - THIANGTHAM, S. - CHANTAWANNAKUL, P. - DISAYATHANOOWAT, T. Identification of Microorganisms Dwelling on the 19th Century Lanna Mural Paintings from Northern Thailand Using Culture-Dependent and -Independent Approaches. In BIOLOGY-BASEL. FEB 2022, vol. 11, no. 2. Dostupné na: https://doi.org/10.3390/biology11020228, Registrované v: WOS
11. [1.1] TANG, S.S. - BULATOV, V. - SCHECHTER, I. - DOLGIN, B. Parchment characterization by multiphoton electron extraction spectrometry. In ARCHAEOMETRY. ISSN 0003-813X, APR 2022, vol. 64, no. 2, p. 468-482. Dostupné na: https://doi.org/10.1111/arcm.12723, Registrované v: WOS
12. [1.1] ZHANG, G. - LI, Y. - SONG, Z.Y. - HAO, Y. Population characteristics and source analysis of microorganisms in a regularly disinfected library. In INDOOR AND BUILT ENVIRONMENT. ISSN 1420-326X, AUG 2022, vol. 31, no. 7, p. 2007-2016. Dostupné na: https://doi.org/10.1177/1420326X221084036, Registrované v: WOS
13. [1.1] ZHANG, M.R. - HU, Y.D. - LIU, J. - PEI, Y. - TANG, K.Y. - LEI, Y. Biodeterioration of collagen-based cultural relics: A review. In FUNGAL BIOLOGY REVIEWS. ISSN 1749-4613, MAR 2022, vol. 39, p. 46-59. Dostupné na: https://doi.org/10.1016/j.fbr.2021.12.005, Registrované v: WOS
14. [1.2] CARLO, Enza Di - BARRESI, Giovanna - PALLA, Franco. Biodeterioration. In Biotechnology and Conservation of Cultural Heritage, 2022-06-28, pp. 1-30. Dostupné na: https://doi.org/10.1007/978-3-030-97585-2_1, Registrované v: SCOPUS
15. [1.2] PINZARI, Flavia - GUTAROWSKA, Beata. Extreme colonizers and rapid profiteers: The challenging world of microorganisms that attack paper and parchment. In Microorganisms in the Deterioration and Preservation of Cultural Heritage, 2021-05-05, pp. 79-113. Dostupné na: https://doi.org/10.1007/978-3-030-69411-1_4, Registrované v: SCOPUS

ADCA169 KRAKOVÁ, Lucia - DE LEO, F. - BRUNO, L. - PANGALLO, Domenico - URZI, C. Complex bacterial diversity in the white biofilms of the Catacombs of St. Callixtus in Rome evidenced by different investigation strategies. In Environmental microbiology, 2015, vol. 17, p. 1738-1752. (2014: 6.201 - IF, Q1 - JCR, 2.862 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12626

Citácie:
1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS
2. [1.1] ROMANI, M. - WARSCHEID, T. - NICOLE, L. - MARCON, L. - DI MARTINO, P. - SUZUKI, M.T. - LEBARON, P. - LAMI, R. Current and future chemical treatments to fight biodeterioration of outdoor building materials and associated biofilms: Moving away from ecotoxic and towards efficient, sustainable solutions. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JAN 1 2022, vol. 802. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.149846, Registrované v: WOS

ADCA170 KRAKOVÁ, Lucia - ŠOLTÝS, K. - OTLEWSKA, A. - PIETRZAK, K. - PURKRTOVÁ, S. - SAVICKÁ, D. - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - SZEMES, Tomáš - BUDIŠ, J. - DEMNEROVA, K. - GUTAROWSKA, B. - PANGALLO, Domenico**. Comparison of methods for identification of microbial communities in book collections: Culture-dependent (sequencing and MALDI-TOF MS) and culture-independent (Illumina MiSeq). In International Biodeterioration & Biodegradation, 2018, vol. 131, p. 51-59. (2017: 3.562 - IF, Q1 - JCR, 1.086 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0964-8305. Dostupné na:

https://doi.org/10.1016/j.ibiod.2017.02.015

Citácie:

1. [1.1] FREITAS, J. - PERESTRELO, R. - VAZ-PIRES, P. - CAMARA, J.S. Bacterial diversity analysis of coastal superficial seawaters near aquaculture facilities, using MALDI-TOF approach and Ribopeaks database. In AQUACULTURE. ISSN 0044-8486, JUL 15 2022, vol. 556. Dostupné na: https://doi.org/10.1016/j.aquaculture.2022.738263, Registrované v: WOS

2. [1.1] KIM, E. - WON, J.E. - YANG, S.M. - KIM, H.J. - KIM, H.Y. Diversity of a Lactic Acid Bacterial Community during Fermentation of Gajami-Sikhae, a Traditional Korean Fermented Fish, as Determined by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. In FOODS. APR 2022, vol. 11, no. 7. Dostupné na: https://doi.org/10.3390/foods11070909, Registrované v: WOS

3. [1.1] KIM, E. - YANG, S.M. - CHO, E.J. - KIM, H.Y. Evaluation of matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the discrimination of Lacticaseibacillus species. In FOOD MICROBIOLOGY. ISSN 0740-0020, OCT 2022, vol. 107. Dostupné na: https://doi.org/10.1016/j.fm.2022.104094, Registrované v: WOS

4. [1.1] PINAR-MéNDEZ, A. - GALOFRé, B. - BLANCH, A.R. - GARCíA-ALJARO, C. Culture and molecular methods as complementary tools for water quality management. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, NOV 20 2022, vol. 848. Dostupné na: https://doi.org/10.1016/j.scitotenv.2022.157789, Registrované v: WOS

ADCA171 KRAKOVÁ, Lucia - ŠOLTÝS, K. - BUDIŠ, J. - GRIVALSKÝ, Tomáš - ĎURIŠ, F. - PANGALLO, Domenico. Investigation of bacterial and archaeal communities: novel protocols using modern sequencing by Illumina MiSeq and traditional DGGE-cloning. In Extremophiles, 2016, vol. 20, p. 795–808. (2015: 2.346 - IF, Q3 - JCR, 0.953 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-016-0855-5

Citácie:

1. [1.1] ZHOU, D. - ZHANG, H.Q. - SHEN, P.C. - CUI, Y.N. - YE, X.P. - ZHOU, D.R. The Effect of Chitosan Treatment on the Microbial Diversity of Cold-Stored Macrobrachium rosenbergii. In JOURNAL OF AQUATIC FOOD PRODUCT TECHNOLOGY. ISSN 1049-8850, JUL 3 2022, vol. 31, no. 6, p. 565-577. Dostupné na: https://doi.org/10.1080/10498850.2022.2081063, Registrované v: WOS

ADCA172 KRAKOVÁ, Lucia - PANGALLO, Domenico - PIECKOVÁ, E. - MAJOROŠOVÁ, M. Discriminative potential of some PCR-based and biochemical methods at Scedosporium strains. In Fungal Biology, 2016, vol. 120, no. 2, p. 155–161. (2015: 2.244 - IF, Q2 - JCR, 0.962 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1878-6146. Dostupné na: https://doi.org/10.1016/j.funbio.2015.04.006

Citácie:

1. [1.1] XIANG, S.Y. - LIU, Y.H. - LU, F.H. - ZHANG, Q. - WANG, Y.P. - XIONG, J.H. - HUANG, Z.X. - YU, Z.G. - RUAN, R.G. - CUI, X. The combination of aerobic and microaerobic promote hydrolysis and acidification of rice straw and pig manure: Balance of insoluble and soluble substrate. In BIORESOURCE TECHNOLOGY. ISSN 0960-8524, APR 2022, vol. 350. Dostupné na: https://doi.org/10.1016/j.biortech.2022.126880, Registrované v: WOS

ADCA173 KRAKOVÁ, Lucia - ŠOLTYS, Katarína - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - JESZEOVÁ, Lenka - KUCHARÍK, Marcel - BUDIŠ, Jaroslav - OROVČÍK, Ľubomír - SZEMES, Tomáš - PANGALLO, Domenico**. The microbiomes of a XVIII century mummy from the castle of Krasna Horka (Slovakia) and its surrounding environment. In Environmental microbiology, 2018, vol. 20, iss. 9, p. 3294-3308. (2017: 4.974 - IF, Q1 - JCR, 2.209 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.14312

Citácie:

1. [1.2] ELKINS, Kelly M. - BERRY, Hannah E. - REESE, Kashiya R. Applications of NGS in DNA analysis. In Handbook of DNA Profiling, 2022-04-14, pp. 501-518. Dostupné na: https://doi.org/10.1007/978-981-16-4318-7_19, Registrované v: SCOPUS

2. [1.2] FASI, Wu - YONG, Zhang - MIN, Su - DONGPENG, He - JIE, Li - HUYUAN, Feng. Advancement of biotechnology for the conservation and restoration of cultural heritage objects. In Sciences of Conservation and Archaeology, 2022-01-01, 34, 1, pp. 133-143. ISSN 10051538. Dostupné na: https://doi.org/10.16334/j.enki.en31-1652/k.20210302060, Registrované v: SCOPUS

ADCA174 KUCHTOVÁ, Andrea - GENTRY, M.S. - JANEČEK, Štefan**. The unique evolution of the carbohydrate-binding module CBM20 in laforin. In FEBS Letters, 2018, vol. 592, no. 4, p. 586-598. (2017: 2.999 - IF, Q2 - JCR, 1.991 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1873-3468. Dostupné na: https://doi.org/10.1002/1873-3468.12994

Citácie:

1. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. - CARDENAS-CONEJO, Y. - VIRGEN-ORTIZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARIN-TOVAR, Y. - GOMEZ-MANZO, S. - HERNANDEZ-OCHOA, B. - ROCHA-RAMIREZ,

L.M. - ZATARAIN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LOPEZ-MUNGUIA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1., Registrované v: WOS

ADCA175 KUCHTOVÁ, Andrea - JANEČEK, Štefan. Domain evolution in enzymes of the neopullulanase subfamily. In Microbiology, 2016, vol. 162, no. 12, p. 2099-2115. (2015: 2.268 - IF, Q3 - JCR, 1.352 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.000390

Citácie:

1. [1.1] AHN, W.C. - AN, Y. - SONG, K.M. - PARK, K.H. - LEE, S.J. - OH, B.H. - PARK, J.T. - WOO, E.J. Dimeric architecture of maltodextrin glucosidase (MalZ) provides insights into the substrate recognition and hydrolysis mechanism. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, JAN 1 2022, vol. 586, p. 49-54. Dostupné na: https://doi.org/10.1016/j.bbrc.2021.11.070, Registrované v: WOS

2. [1.1] AROOB, I. - JAVED, M. - AHMAD, N. - ASLAM, M. - RASHID, N. Investigating the role of carbohydrate-binding module 34 in cyclomaltodextrinase from Geobacillus thermopakistaniensis: structural and functional analyses. In 3 BIOTECH. ISSN 2190-572X, JAN 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1007/s13205-021-03089-9, Registrované v: WOS

3. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101498, Registrované v: WOS

4. [1.1] RUAN, Y.Q. - ZHANG, R.Z. - XU, Y. Directed evolution of maltogenic amylase from Bacillus licheniformis R-53: Enhancing activity and thermostability improves bread quality and extends shelf life. In FOOD CHEMISTRY. ISSN 0308-8146, JUL 1 2022, vol. 381. Dostupné na: https://doi.org/10.1016/j.foodchem.2022.132222, Registrované v: WOS

5. [1.1] WANG, M.X. - HU, H.Z. - ZHANG, B.Y. - ZHENG, Y. - WU, P. - LU, Z.H. - ZHANG, G.M. Discovery of a New Microbial Origin Cold-Active Neopullulanase Capable for Effective Conversion of Pullulan to Panose. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUL 2022, vol. 23, no. 13. Dostupné na: https://doi.org/10.3390/ijms23136928, Registrované v: WOS

6. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADCA176 KUCHTOVÁ, Andrea - JANEČEK, Štefan. In silico analysis of family GH77 with focus on amylomaltases from borreliae and disproportionating enzymes DPE2 from plants and bacteria. In Biochimica et Biophysica Acta : proteins and proteomics, 2015, vol. 1854, p. 1260–1268. (2014: 2.747 - IF, Q2 - JCR, 1.381 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1570-9639. Dostupné na: https://doi.org/10.1016/j.bbapap.2015.05.009

Citácie:

1. [1.1] JUNG, J.H. - HONG, S.P.Y. - JEON, E.J. - KIM, M.K. - SEO, D.H. - WOO, E.J. - HOLDEN, J.F. - PARK, C.S. Acceptor dependent catalytic properties of GH57 4-a-glucanotransferase from Pyrococcus sp. ST04. In FRONTIERS IN MICROBIOLOGY. OCT 6 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.1016675, Registrované v: WOS

2. [1.1] KRUSONG, K. - ISMAIL, A. - WANGPAIBOON, K. - PONGSAWASDI, P. Production of Large-Ring Cyclodextrins by Amylomaltases. In MOLECULES. FEB 2022, vol. 27, no. 4. Dostupné na: https://doi.org/10.3390/molecules27041446, Registrované v: WOS

3. [1.1] LEONI, C. - MANZARI, C. - TRAN, H. - GOLYSHIN, P.N. - PESOLE, G. - VOLPICELLA, M. - CECI, L.R. Identification of an Amylomaltase from the Halophilic Archaeon Haloquadratum walsbyi by Functional Metagenomics: Structural and Functional Insights. In LIFE-BASEL. JAN 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.3390/life12010085, Registrované v: WOS

ADCA177 KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - BAUER, Jacob - BELLOVÁ, Jana - AMBRO, Ľuboš - MARTINÁKOVÁ, Lucia - KOTRASOVÁ, Veronika - KUTEJOVÁ, Eva - PEVALA, Vladimír. The role of Lon-mediated proteolysis in the dynamics of mitochondrial nucleic acid-protein complexes. In Scientific Reports, 2017, vol. 7, art. no. 631. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-00632-8

Citácie:

1. [1.1] FIGAROLA-CENTURIóN, I. - ESCOTO-DELGADILLO, M. - GONZáLEZ-ENRíQUEZ, G.V. - GUTIéRREZ-SEVILLA, J.E. - VáZQUEZ-VALLS, E. - TORRES-MENDOZA, B.M. Sirtuins

Modulation: A Promising Strategy for HIV-Associated Neurocognitive Impairments. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2022, vol. 23, no. 2. Dostupné na: https://doi.org/10.3390/ijms23020643, Registrované v: WOS

2. [1.1] GREEN, E.R. - FAKHOURY, J.N. - MONTEITH, A.J. - PI, H.L. - GIEDROC, D.P. - SKAAR, E.P. Bacterial hydrophilins promote pathogen desiccation tolerance. In CELL HOST & MICROBE. ISSN 1931-3128, JUL 13 2022, vol. 30, no. 7, p. 975-+. Dostupné na: https://doi.org/10.1016/j.chom.2022.03.019, Registrované v: WOS

3. [1.1] MOHAMMED, I. - SCHMITZ, K.A. - SCHENCK, N. - BALASOPOULOS, D. - TOPITSCH, A. - MAIER, T. - ABRAHAMS, J.P. Catalytic cycling of human mitochondrial Lon protease. In STRUCTURE. ISSN 0969-2126, SEP 1 2022, vol. 30, no. 9, p. 1254-+. Dostupné na: https://doi.org/10.1016/j.str.2022.06.006, Registrované v: WOS

4. [1.1] RAHMATI, F. - LAJAYER, B.A. - SHADFAR, N. - VAN BODEGOM, P.M. - VAN HULLEBUSCH, E.D. A Review on Biotechnological Approaches Applied for Marine Hydrocarbon Spills Remediation. In MICROORGANISMS. JUL 2022, vol. 10, no. 7. Dostupné na: https://doi.org/10.3390/microorganisms10071289, Registrované v: WOS

ADCA178 KUNOVÁ, Nina** - HAVALOVÁ, Henrieta* - ONDROVIČOVÁ, Gabriela - STOJKOVIČOVÁ, Barbora - BAUER, Jacob - BAUEROVÁ, Vladena - PEVALA, Vladimír - KUTEJOVÁ, Eva**. Mitochondrial processing peptidases - structure, function and the role in human diseases. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 1297. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms23031297 (APVV-15-0375. APVV-19-0298 : Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. VEGA č. 2/0075/18 : Faktory ovplyvňujúce dynamiku mitochondriálneho nukleoidu)

Citácie:

1. [1.1] LUO, J.S. - NING, J.Q. - CHEN, Z.Y. - LI, W.J. - ZHOU, R.L. - YAN, R.Y. - CHEN, M.J. - DING, L.L. The Role of Mitochondrial Quality Control in Cognitive Dysfunction in Diabetes. In NEUROCHEMICAL RESEARCH. ISSN 0364-3190, AUG 2022, vol. 47, no. 8, p. 2158-2172., Registrované v: WOS

ADCA179 LABAJOVÁ, Naďa** - BARANOVA, N. - JURÁSEK, M. - VÁCHA, R.** - LOOSE, M. - BARÁK, Imrich**. Cardiolipin-containing lipid membranes attract the bacterial cell division protein divIVA. In International Journal of Molecular Sciences, 2021, vol. 22, no. 8350. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22158350

Citácie:

1. [1.1] FALGINELLA, F.L. - KRAVEC, M. - DRABINOVA, M. - PACLIKOVA, P. - BRYJA, V. - VACHA, R. Binding of DEP domain to phospholipid membranes: More than just electrostatics. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-2736, OCT 1 2022, vol. 1864, no. 10., Registrované v: WOS

2. [1.1] PELLETIER, J.F. - GLASS, J.I. - STRYCHALSKI, E.A. Cellular mechanics during division of a genomically minimal cell. In TRENDS IN CELL BIOLOGY. ISSN 0962-8924, NOV 2022, vol. 32, no. 11, p. 900-907., Registrované v: WOS

ADCA180 LEITNER, J. - MAHASONGKRAM, K. - SCHATZLMAIER, P. - PFISTERER, K. - LEKSA, Vladimír - PATA, S. - KASINRERK, W. - STOCKINGER, H.** - STEINBERGER, P.**. Differentiation and activation of human CD4 T cells is associated with a gradual loss of myelin and lymphocyte protein. In European Journal of Immunology, 2021, vol. 51, p. 848-863. (2020: 5.532 - IF, Q2 - JCR, 2.272 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0014-2980. Dostupné na: https://doi.org/10.1002/eji.202048603

Citácie:

1. [1.1] POKRYSZKA, J. - WAGNER, A. - WIEDERMANN, U. - TOBUDIC, S. - HERKNER, H. - WINKLER, S. - BREHOVSKY, S. - REINISCH, W. - NOVACEK, G. Course of Fecal Calprotectin after mRNA SARS-CoV-2 Vaccination in Patients with Inflammatory Bowel Diseases. In VACCINES. MAY 2022, vol. 10, no. 5., Registrované v: WOS

ADCA181 LEKSA, Vladimír - LOEWE, R. - BINDER, B. - SCHILLER, H.B. - ECKERSTORFER, P. - FORSTER, F. - SOLER-CARDONA, A. - ONDROVIČOVÁ, Gabriela - KUTEJOVÁ, Eva - STEINHUBER, E. - BREUSS, J. - DRACH, J. - PETZELBAUER, P. - BINDER, B.R. - STOCKINGER, H. Soluble M6P/IGF2R released by TACE controls Angiogenesis via blocking Plasminogen Activation. In Circulation research, 2011, vol. 108, p. 676-685. (2010: 9.504 - IF, Q1 - JCR, 5.615 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0009-7330. Dostupné na: https://doi.org/10.1161/CIRCRESAHA.110.234732

Citácie:

1. [1.1] WANG, Kai - XUAN, Zixue - LIU, Xiaoyan - ZHENG, Meiling - YANG, Chao - WANG, Haiyong. Immunomodulatory role of metalloproteinase ADAM17 in tumor development. In FRONTIERS IN IMMUNOLOGY, 2022, vol. 13, no., pp. ISSN 1664-3224. Dostupné na:

https://doi.org/10.3389/fimmu.2022.1059376, Registrované v: WOS
2. [1.1] ZHU, Dongliang - YUE, Jianjun - SHI, Hongyun. Bioengineered Exosomes Bearing Adenosine A2a Receptor for the Treatment of Neuroinflammation. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY, 2022, vol. 18, no. 11, pp. 2642-2650. ISSN 1550-7033. Dostupné na: https://doi.org/10.1166/jbn.2022.3452, Registrované v: WOS

ADCA182 LEKSA, Vladimír - ILČÍKOVÁ, Antónia - VIČÍKOVÁ, Kristína - STOCKINGER, H. Unravelling novel functions of the endosomal transporter mannose 6-phosphate/insulin-like growth factor receptor (CD222) in health and disease: An emerging regulator of the immune system. In Immunology Letters, 2017, vol. 190, p. 194-200. (2016: 2.860 - IF, Q3 - JCR, 1.243 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0165-2478. Dostupné na: https://doi.org/10.1016/j.imlet.2017.08.011

Citácie:

1. [1.1] ZHONG, Y. - REN, X.Y. - CAO, X. - XU, Y.L. - SONG, Y. - ZHOU, Y.D. - MAO, F. - SHEN, S.J. - WANG, Z. - SUN, Q. Insulin-like growth factor 2 receptor is a key immune-related gene that is correlated with a poor prognosis in patients with triple-negative breast cancer: A bioinformatics analysis. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, OCT 18 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fonc.2022.871786, Registrované v: WOS

ADCA183 LEKSA, Vladimír - GODAR, S. - SCHILLER, H.B. - FUERTBAUER, E. - MUHAMMAD, A. - SLEZÁKOVÁ, Katarína - HOREJSI, V. - STEINLEIN, P. - WEIDLE, U.H. - BINDER, B.R. - STOCKINGER, H. TGF-ß-induced apoptosis in endothelial cells mediated by M6P/IGFII-R and mini-plasminogen. In Journal of Cell Science, 2005, vol. 118, p. 4577-4586. ISSN 0021-9533. Dostupné na: https://doi.org/10.1242/jcs.02587

Citácie:

1. [1.1] GONZALEZ-RODRIGUEZ, Paloma - HERRERO, Raquel - SANCHEZ, Gema - ANGEL LORENTE, Jose. New insights in ARDS pathogenesis. In SIGNA VITAE, 2022, vol. 18, no. 5, pp. 51-67. ISSN 1334-5605. Dostupné na: https://doi.org/10.22514/sv.2022.058, Registrované v: WOS
2. [1.1] MA, Jixuan - TAN, Qiyou - NIE, Xiuquan - ZHOU, Min - WANG, Bin - WANG, Xing - CHENG, Man - YE, Zi - XIE, Yujia - WANG, Dongming - CHEN, Weihong. Longitudinal relationships between polycyclic aromatic hydrocarbons exposure and heart rate variability: Exploring the role of transforming growth factor-beta in a general Chinese population. In JOURNAL OF HAZARDOUS MATERIALS, 2022, vol. 425, no., pp. ISSN 0304-3894. Dostupné na: https://doi.org/10.1016/j.jhazmat.2021.127770, Registrované v: WOS
3. [1.1] ZHONG, Ying - REN, Xinyu - CAO, Xi - XU, Yali - SONG, Yu - ZHOU, Yidong - MAO, Feng - SHEN, Songjie - WANG, Zhe - SUN, Qiang. Insulin-like growth factor 2 receptor is a key immune-related gene that is correlated with a poor prognosis in patients with triple-negative breast cancer: A bioinformatics analysis. In FRONTIERS IN ONCOLOGY, 2022, vol. 12, no., pp. ISSN 2234-943X. Dostupné na: https://doi.org/10.3389/fonc.2022.871786, Registrované v: WOS
4. [1.2] LAMPLOT, Joseph D. - LAWTON, Cort D. - RODEO, Scott A. Orthobiologics for the Treatment of Achilles Tendinopathy. In Orthobiologics: Injectable Therapies for the Musculoskeletal System, 2021-01-01, pp. 221-236. Dostupné na: https://doi.org/10.1007/978-3-030-84744-9_18, Registrované v: SCOPUS

ADCA184 LEVDIKOV, V. - BLAGOVA, E. - RAWLINGS, A.E. - JAMESON, K. - TUNALEY, J. - HART, D.J. - BARÁK, Imrich - WILKINSON, A.J. Structure of the phosphatase domain of the cell fate determinant SpoIIE from Bacillus subtilis. In Journal of Molecular Biology, 2012, vol. 415, p. 343-358. (2011: 4.001 - IF, Q2 - JCR, 3.142 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0022-2836. Dostupné na: https://doi.org/10.1016/j.jmb.2011.11.017

Citácie:

1. [1.1] KUWABARA, Shiomi - LANDERS, Evan R. - FISHER, Derek J. Impact of nutrients on the function of the chlamydial Rsb partner switching mechanism. In PATHOGENS AND DISEASE, 2022, vol. 80, no. 1, pp. ISSN 2049-632X. Dostupné na: https://doi.org/10.1093/femspd/ftac044, Registrované v: WOS
2. [1.1] WALKER, P.L. - PAKRASIA, H.B. A Ubiquitously Conserved Cyanobacterial Protein Phosphatase Essential for High Light Tolerance in a Fast-Growing Cyanobacterium. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, JUL-AUG 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.1128/spectrum.01008-22, Registrované v: WOS

ADCA185 LEVEQUE, E. - JANEČEK, Štefan - HAYE, B. - BELARBI, A. Thermophilic archaeal amylolytic enzymes. In Enzyme and Microbial Technology, 2000, vol. 26, p. 3-14. ISSN 0141-0229. Dostupné na: https://doi.org/10.1016/S0141-0229(99)00142-8

Citácie:

1. [1.1] CHEN, L.Y. - JIANG, K.Y. - ZHOU, Y.Y. - ZHU, L.J. - CHEN, X.L. Improving the Thermostability of alpha-Glucosidase from Xanthomonas campestris through Proline Substitutions Guided by Semi-rational Design. In BIOTECHNOLOGY AND BIOPROCESS ENGINEERING. ISSN 1226-8372, AUG 2022, vol. 27, no. 4, p. 631-639., Registrované v: WOS
2. [1.1] LI, C.L. - RUAN, H.Z. - LIU, L.M. - ZHANG, W.G. - XU, J.Z. Rational reformation of

Corynebacterium glutamicum for producing L-lysine by one-step fermentation from raw corn starch. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, JAN 2022, vol. 106, no. 1, p. 145-160., Registrované v: WOS
3. [1.1] LI, J. - LU, J. - MA, Z.L. - LI, J.X. - CHEN, X.R. - DIAO, M.X. - XIE, N.Z. A Green Route for High-Yield Production of Tetramethylpyrazine From Non-Food Raw Materials. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, JAN 25 2022, vol. 9., Registrované v: WOS
4. [1.1] LUGOWOJ, S. - BALCEREK, M. Polysaccharides of Starchy and Lignocellulose Materials and their Use in Ethanol Production: Enzymes and other Factors Affecting the Production Process. In APPLIED FOOD BIOTECHNOLOGY. ISSN 2345-5357, 2022, vol. 9, no. 2, p. 157-172., Registrované v: WOS
5. [1.1] OZDOLAP, M. - OZCAN, B.D. PARTIAL CHARACTERIZATION OF alpha-AMYLASE ENZYMES PRODUCED BY Bacillus ISOLATES. In FRESENIUS ENVIRONMENTAL BULLETIN. ISSN 1018-4619, 2022, vol. 31, no. 2, p. 2259-2266., Registrované v: WOS
6. [1.1] UNAL, A. - SUBASI, A.S. - MALKOC, S. - OCAK, I. - KORCAN, S.E. - YETILMEZER, E. - YURDUGUL, S. - YAMAN, H. - SANAL, T. - KECELI, A. Potential of fungal thermostable alpha amylase enzyme isolated from Hot springs of Central Anatolia (Turkey) in wheat bread quality. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45., Registrované v: WOS
7. [1.2] LUGANI, Yogita - VEMULURI, Venkata Ramana. Extremophiles: Diversity, Biotechnological Applications and Current Trends. In Extremophiles: General and Plant Biomass Based Biorefinery, 2022-01-01, pp. 1-30. Dostupné na: https://doi.org/10.1201/9781003014188-1, Registrované v: SCOPUS
8. [1.2] NANDI, Soumya - BOSE, Twinkle - MAHATO, Susmita - CHATTERJEE, Somashree - CHATTERJEE, Annalakhmi. Isolation and partial characterization of amylase produced by fungal isolates from the agro-industrial waste source. In Journal of Applied Biology and Biotechnology, 2022-07-01, 10, 4, pp. 45-49. Dostupné na: https://doi.org/10.7324/JABB.2022.100406, Registrované v: SCOPUS
9. [1.2] PRUKSASRI, Suwattana - STAUFFER, Nathaniel - HALL, Christopher - HAFNER, Jessica - DONG, Jie. Key enzymes in biorefinery. In A-Z of Biorefinery: A Comprehensive View, 2022-01-01, pp. 221-264. Dostupné na: https://doi.org/10.1016/B978-0-12-819248-1.00011-7, Registrované v: SCOPUS
10. [1.2] SAMANTA, Dipayan - GOVIL, Tanvi - SAXENA, Priya - THAKUR, Payal - SANI, Rajesh K. - NARAYANAN, Adhithya. Extremozymes and their applications. In Extremozymes and their Industrial Applications, 2022-01-01, pp. 1-39. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00005-8, Registrované v: SCOPUS

ADCA186 LEWIS, C. - ŠKOVIEROVÁ, Henrieta - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - STEVENSON, A. - SPENCER, J. - FARN, J. - KORMANEC, Ján - ROBERTS, M. Salmonella enterica Serovar Typhimurium HtrA: regulation of expression and role of the chaperone and protease activities during infection. In Microbiology-SGM, 2009, vol. 155, p. 873-881. (2008: 2.841 - IF, Q2 - JCR, 1.743 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.023754-0

Citácie:
1. [1.1] SHARMA, Prayatna - MONDAL, Krishnendu - KUMAR, Santosh - TAMANG, Sonia - NAJAR, Ishfaq Nabi - DAS, Sayak - THAKUR, Nagendra. RNA thermometers in bacteria: Role in thermoregulation. In BIOCHIMICA ET BIOPHYSICA ACTA-GENE REGULATORY MECHANISMS, 2022, vol. 1865, no. 7, pp. ISSN 1874-9399. Dostupné na: https://doi.org/10.1016/j.bbagrm.2022.194871, Registrované v: WOS
2. [1.1] WANG, Lixia - JI, Chunhui - XIA, Xianzhu - CAI, Xuepeng - MENG, Qingling - QIAO, Jun. A Regulatory SRNA Rli43 Is Involved in the Modulation of Biofilm Formation and Virulence in Listeria monocytogenes. In PATHOGENS, 2022, vol. 11, no. 10, pp. Dostupné na: https://doi.org/10.3390/pathogens11101137, Registrované v: WOS

ADCA187 LEWIS, R.J. - BRANNIGAN, J.A. - MUCHOVÁ, Katarína - BARÁK, Imrich - WILKINSON, A.J. Phosphorylated aspartate in the structure of a response regulator protein. In Journal of Molecular Biology, 1999, vol. 294, p. 9-15. ISSN 0022-2836. Dostupné na: https://doi.org/10.1006/jmbi.1999.3261

Citácie:
1. [1.1] DICANDIA, Michael A. - EDWARDS, Adrianne N. - JONES, Joshua B. - SWAIM, Grace L. - MILLS, Brooke D. - MCBRIDE, Shonna M. Identification of Functional Spo0A Residues Critical for Sporulation in Clostridioides difficile. In JOURNAL OF MOLECULAR BIOLOGY, 2022, vol. 434, no. 13, pp. ISSN 0022-2836. Dostupné na: https://doi.org/10.1016/j.jmb.2022.167641, Registrované v: WOS
2. [1.1] XIA, Xuhua. Multiple regulatory mechanisms for pH homeostasis in the gastric pathogen, Helicobacter pylori. In ADVANCES IN GENETICS, VOL. 109, 2022, vol. 109, no., pp. 39-69.

ISSN 0065-2660. Dostupné na: https://doi.org/10.1016/bs.adgen.2022.07.001, Registrované v: WOS

ADCA188 LEWIS, R.J. - SCOTT, D.J. - BRANNIGAN, J.A. - LADDS, J.C. - CERVIN, M.A. - SPIEGELMAN, G.B. - HOGGETT, J.G. - BARÁK, Imrich - WILKINSON, A.J. Dimer formation and transcription activation in the sporulation response regulator Spo0A. In Journal of Molecular Biology, 2002, vol. 316, p. 235-245. ISSN 0022-2836. Dostupné na: https://doi.org/10.1006/jmbi.2001.5331

Citácie:

1. [1.1] DICANDIA, Michael A. - EDWARDS, Adrianne N. - JONES, Joshua B. - SWAIM, Grace L. - MILLS, Brooke D. - MCBRIDE, Shonna M. Identification of Functional Spo0A Residues Critical for Sporulation in Clostridioides difficile. In JOURNAL OF MOLECULAR BIOLOGY, 2022, vol. 434, no. 13, pp. ISSN 0022-2836. Dostupné na: https://doi.org/10.1016/j.jmb.2022.167641, Registrované v: WOS

ADCA189 LIU, B. - YOSHINAGA, K. - WU, J.H. - CHEN, W.Y. - TERASHIMA, M. - GOEL, R. - PANGALLO, Domenico - YASUI, Hideki. Kinetic analysis of biological degradation for tetramethylammonium hydroxide (TMAH) in the anaerobic activated sludge system at ambient temperature. In Biochemical Engineering Journal, 2016, vol. 114, p. 42–49. (2015: 2.463 - IF, Q2 - JCR, 0.952 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1369-703X. Dostupné na: https://doi.org/10.1016/j.bej.2016.06.020

Citácie:

1. [1.1] CHANG, H.M. - CHEN, S.S. - HSIAO, S.S. - CHANG, W.S. - CHIEN, I.C. - DUONG, C.C. - NGUYEN, T.X.Q. Water reclamation and microbial community investigation: Treatment of tetramethylammonium hydroxide wastewater through an anaerobic osmotic membrane bioreactor hybrid system. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, APR 5 2022, vol. 427. Dostupné na: https://doi.org/10.1016/j.jhazmat.2021.128200, Registrované v: WOS

2. [1.1] LIU, Y.C. - HU, Y.C. - CHU, I.M. - WEI, Y.H. - TSAI, S.L. Biodegradation of tetramethylammonium chloride wastewater and inorganic nitrogen removal by a mixed culture. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-2929, FEB 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.1016/j.jece.2021.106931, Registrované v: WOS

ADCA190 LIU, H. - KRAJČÍKOVÁ, Daniela - ZHANG, Z. - WANG, H. - BARÁK, Imrich - TANG, J. Investigating interactions of the Bacillus subtilis spore coat proteins CotY and CotZ using single molecule force spectroscopy. In Journal of Structural Biology, 2015, vol. 192, p. 14-20. (2014: 3.231 - IF, Q2 - JCR, 2.504 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2015.09.001

Citácie:

1. [1.1] GONCALVES, G. - SANTOS, R.A. - COUTINHO, F. - PEDROSA, N. - CURADO, M. - MACHADO, M. - COSTAS, B. - BONNEVILLE, L. - SERRANO, M. - CARVALHO, A.P. - DIAZ-ROSALES, P. - OLIVA-TELES, A. - COUTO, A. - SERRA, C.R. Oral vaccination of fish against vibriosis using spore-display technology. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, OCT 13 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fimmu.2022.1012301, Registrované v: WOS

ADCA191 LIU, T. - LU, B. - LEE, I. - ONDROVIČOVÁ, Gabriela - KUTEJOVÁ, Eva - SUZUKI, C.K. DNA and RNA binding by the mitochondrial Lon protease is regulated by nucleotide and protein substrate. In Journal of Biological Chemistry, 2004, vol. 279, p. 13902-13910. (2003: 6.482 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M309642200

Citácie:

1. [1.1] LONGCHAMPS, R.J. - YANG, S.Y. - CASTELLANI, C.A. - SHI, W. - LANE, J. - GROVE, M.L. - BARTZ, T.M. - SARNOWSKI, C. - LIU, C. - BURROWS, K. - GUYATT, A.L. - GAUNT, T.R. - KACPROWSKI, T. - YANG, J. - DE JAGER, P.L. - YU, L. - BERGMAN, A. - XIA, R. - FORNAGE, M. - FEITOSA, M.F. - WOJCZYNSKI, M.K. - KRAJA, A.T. - PROVINCE, M.A. - AMIN, N. - RIVADENEIRA, F. - TIEMEIER, H. - UITTERLINDEN, A.G. - BROER, L. - VAN MEURS, J.B.J. - VAN DUIJN, C.M. - RAFFIELD, L.M. - LANGE, L. - RICH, S.S. - LEMAITRE, R.N. - GOODARZI, M.O. - SITLANI, C.M. - MAK, A.C.Y. - BENNETT, D.A. - RODRIGUEZ, S. - MURABITO, J.M. - LUNETTA, K.L. - SOTOODEHNIA, N. - ATZMON, G. - YE, K. - BARZILAI, N. - BRODY, J.A. - PSATY, B.M. - TAYLOR, K.D. - ROTTER, J.I. - BOERWINKLE, E. - PANKRATZ, N. - ARKING, D.E. Genome-wide analysis of mitochondrial DNA copy number reveals loci implicated in nucleotide metabolism, platelet activation, and megakaryocyte proliferation. In HUMAN GENETICS. ISSN 0340-6717, JAN 2022, vol. 141, no. 1, p. 127-146. Dostupné na: https://doi.org/10.1007/s00439-021-02394-w, Registrované v: WOS

2. [1.1] MA, H.Z. - CHEN, W.T. - FAN, W.G. - HE, H.W. - HUANG, F. Roles of LonP1 in Oral-Maxillofacial Developmental Defects and Tumors: A Novel Insight. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 21. Dostupné na:

https://doi.org/10.3390/ijms232113370, Registrované v: WOS
3. [1.1] TANGEDA, V. - LO, Y.K. - BABUHARISANKAR, A.P. - CHOU, H.Y. - KUO, C.L. - KAO, Y.H. - LEE, A.Y.L. - CHANG, J.Y. Lon upregulation contributes to cisplatin resistance by triggering NCLX-mediated mitochondrial Ca<SUPn+</SUP> release in cancer cells. In CELL DEATH & DISEASE. ISSN 2041-4889, MAR 16 2022, vol. 13, no. 3. Dostupné na: https://doi.org/10.1038/s41419-022-04668-1, Registrované v: WOS
4. [1.1] YANG, J. - SONG, A.S. - WISEMAN, R.L.C. - LANDER, G. Cryo-EM structure of hexameric yeast Lon protease (PIM1) highlights the importance of conserved structural elements. In JOURNAL OF BIOLOGICAL CHEMISTRY. MAR 2022, vol. 298, no. 3. Dostupné na: https://doi.org/10.1016/j.jbc.2022.101694, Registrované v: WOS
5. [1.1] YANG, Q.Y. - LIU, P.P. - ANDERSON, N.S. - SHPILKA, T. - DU, Y.G. - NARESH, N.U. - LI, R. - ZHU, L.J. - LUK, K. - LAVELLE, J. - ZEINERT, R.D. - CHIEN, P. - WOLFE, S.A. - HAYNES, C.M. LONP-1 and ATFS-1 sustain deleterious heteroplasmy by promoting mtDNA replication in dysfunctional mitochondria. In NATURE CELL BIOLOGY. ISSN 1465-7392, FEB 2022, vol. 24, no. 2, p. 181-+. Dostupné na: https://doi.org/10.1038/s41556-021-00840-5, Registrované v: WOS
6. [1.1] ZANINI, G. - SELLERI, V. - NASI, M. - DE GAETANO, A. - MARTINELLI, I. - GIANFERRARI, G. - LOFARO, F.D. - BORALDI, F. - MANDRIOLI, J. - PINTI, M. Mitochondrial and Endoplasmic Reticulum Alterations in a Case of Amyotrophic Lateral Sclerosis Caused by TDP-43 A382T Mutation. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2022, vol. 23, no. 19. Dostupné na: https://doi.org/10.3390/ijms231911881, Registrované v: WOS
7. [1.2] BULTEAU, Anne Laure - FRIGUET, Bertrand. Proteostasis and skin aging. In Proteostasis and Proteolysis, 2022-12-23, pp. 181-195. Dostupné na: https://doi.org/10.1201/9781003048138-14, Registrované v: SCOPUS
8. [1.2] LEE, Jae - PANDEY, Ashutosh K. - VENKATESH, Sundararajan - THILAGAVATHI, Jayapalraja - HONDA, Tadashi - SINGH, Kamal - SUZUKI, Carolyn K. Inhibition of mitochondrial LonP1 protease by allosteric blockade of ATP binding and hydrolysis via CDDO and its derivatives. In Journal of Biological Chemistry, 2022-03-01, 298, 3, pp. ISSN 00219258. Dostupné na: https://doi.org/10.1016/j.jbc.2022.101719, Registrované v: SCOPUS
9. [1.2] VENKATESH, Sundararajan - BALJINNYAM, Erdene - TONG, Mingming - KASHIHARA, Toshihide - YAN, Lin - LIU, Tong - LI, Hong - XIE, Lai Hua - NAKAMURA, Michinari - OKA, Shin Ichi - SUZUKI, Carolyn K. - FRAIDENRAICH, Diego - SADOSHIMA, Junichi. Proteomic analysis of mitochondrial biogenesis in cardiomyocytes differentiated from human induced pluripotent stem cells. In American Journal of Physiology Regulatory Integrative and Comparative Physiology, 2021-04-01, 320, 4, pp. R547-R562. ISSN 03636119. Dostupné na: https://doi.org/10.1152/AJPREGU.00207.2020, Registrované v: SCOPUS

ADCA192 LU, B. - YADAV, S. - SHAH, P.G. - LIU, T. - TIAN, B. - PUKSZTA, S. - VILLALUNA, N. - KUTEJOVÁ, Eva - NEWLON, C.S. - SANTOS, J.H. - SUZUKI, C.K. Role for the Human ATP-dependent Lon Protease in Mitochondrial DNA Maintenance. In Journal of Biological Chemistry, 2007, vol. 282, no. 24, p.17363-17374. (2006: 5.808 - IF, Q1 - JCR, 4.352 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M611540200

Citácie:
1. [1.1] GIBELLINI, L. - BORELLA, R. - DE GAETANO, A. - ZANINI, G. - LO TARTARO, D. - CARNEVALE, G. - BERETTI, F. - LOSI, L. - DE BIASI, S. - NASI, M. - FORCATO, M. - COSSARIZZA, A. - PINTI, M. Evidence for mitochondrial Lonp1 expression in the nucleus. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUN 27 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-14860-0, Registrované v: WOS
2. [1.1] SIDARALA, V. - ZHU, J. - LEVI-D';ANCONA, E. - PEARSON, G.L. - RECK, E.C. - WALKER, E.M. - KAUFMAN, B.A. - SOLEIMANPOUR, S.A. Mitofusin 1 and 2 regulation of mitochondrial DNA content is a critical determinant of glucose homeostasis. In NATURE COMMUNICATIONS. APR 29 2022, vol. 13, no. 1. Dostupné na: https://doi.org/10.1038/s41467-022-29945-7, Registrované v: WOS
3. [1.1] TANGEDA, V. - LO, Y.K. - BABUHARISANKAR, A.P. - CHOU, H.Y. - KUO, C.L. - KAO, Y.H. - LEE, A.Y.L. - CHANG, J.Y. Lon upregulation contributes to cisplatin resistance by triggering NCLX-mediated mitochondrial Ca<SUPn+</SUP> release in cancer cells. In CELL DEATH & DISEASE. ISSN 2041-4889, MAR 16 2022, vol. 13, no. 3. Dostupné na: https://doi.org/10.1038/s41419-022-04668-1, Registrované v: WOS
4. [1.1] ZANINI, G. - SELLERI, V. - NASI, M. - DE GAETANO, A. - MARTINELLI, I. - GIANFERRARI, G. - LOFARO, F.D. - BORALDI, F. - MANDRIOLI, J. - PINTI, M. Mitochondrial and Endoplasmic Reticulum Alterations in a Case of Amyotrophic Lateral Sclerosis Caused by TDP-43 A382T Mutation. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2022, vol. 23, no. 19. Dostupné na: https://doi.org/10.3390/ijms231911881, Registrované v: WOS

5. [1.2] BULTEAU, Anne Laure - FRIGUET, Bertrand. Proteostasis and skin aging. In Proteostasis and Proteolysis, 2022-12-23, pp. 181-195. Dostupné na: https://doi.org/10.1201/9781003048138-14, Registrované v: SCOPUS

ADCA193 LUDWIG, R. - SALAMON, J. - VARGA, J. - ZÁMOCKÝ, Marcel - PETERBAUER, C.K. - KULBE, K.D. - HALTRICH, D. Characterisation of cellobiose dehydrogenases from the white-rot fungi Trametes pubescens and Trametes villosa. In Applied Microbiology and Biotechnology, 2004, vol. 64, p. 213-222. ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-003-1501-6

Citácie:

1. [1.1] ZHAO, Hongbo - KARPPI, Johanna - NGUYEN, Thi Truc Minh - BELLEMARE, Annie - TSANG, Adrian - MASTER, Emma - TENKANEN, Maija. Characterization of a novel AA3_1 xylooligosaccharide dehydrogenase from Thermothelomyces myriococcoides CBS 398.93. In BIOTECHNOLOGY FOR BIOFUELS AND BIOPRODUCTS, 2022, vol. 15, no. 1, pp. Dostupné na: https://doi.org/10.1186/s13068-022-02231-w, Registrované v: WOS

ADCA194 LUKÁČOVÁ, Magdaléna - BARÁK, Imrich - KAZÁR, Ján. Role of structural variations of polysaccharide antigens in the pathogenicity of Gram-negative bacteria. In Clinical Microbiology and Infection, 2008, vol. 14, p. 200–206. (2007: 2.980 - IF, Q2 - JCR, 1.436 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1198-743X. Dostupné na: https://doi.org/10.1111/j.1469-0691.2007.01876.x

Citácie:

1. [1.1] CHEN, S.S. - CHEN, S. - WANG, J.L. - ZHAN, Y. - WANG, Z. - FANG, Y. - WANG, X.Y. Characterization of a gene cluster containing four genes relevant to biosynthesis of inner core of lipopolysaccharide in Cronobacter sakazakii. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, JUN 2022, vol. 69, no. 3, p. 1080-1093. Dostupné na: https://doi.org/10.1002/bab.2179, Registrované v: WOS

2. [1.1] GINEZ, L.D. - OSORIO, A. - VáZQUEZ-RAMíREZ, R. - ARENAS, T. - MENDOZA, L. - CAMARENA, L. - POGGIO, S. Changes in fluidity of the E. coli outer membrane in response to temperature, divalent cations and polymyxin-B show two different mechanisms of membrane fluidity adaptation. In FEBS JOURNAL. ISSN 1742-464X, JUN 2022, vol. 289, no. 12, p. 3550-3567. Dostupné na: https://doi.org/10.1111/febs.16358, Registrované v: WOS

3. [1.1] MEZO, E. - HARTMANN-BALOGH, F. - HORVáTH, I.M. - BUFA, A. - MAROSVöLGYI, T. - KOCSIS, B. - MAKSZIN, L. Effect of Culture Conditions on Fatty Acid Profiles of Bacteria and Lipopolysaccharides of the Genus Pseudomonas-GC-MS Analysis on Ionic Liquid-Based Column. In MOLECULES. OCT 2022, vol. 27, no. 20. Dostupné na: https://doi.org/10.3390/molecules27206930, Registrované v: WOS

4. [1.1] PéTER, B. - FARKAS, E. - KURUNCZI, S. - SZITTNER, Z. - BOSZE, S. - RAMSDEN, J.J. - SZEKACS, I. - HORVATH, R. Review of Label-Free Monitoring of Bacteria: From Challenging Practical Applications to Basic Research Perspectives. In BIOSENSORS-BASEL. APR 2022, vol. 12, no. 4. Dostupné na: https://doi.org/10.3390/bios12040188, Registrované v: WOS

5. [1.1] STANKO, M. - DERDáKOVA, M. - SPITALSKá, E. - KAZIMíROVA, M. Ticks and their epidemiological role in Slovakia: from the past till present. In BIOLOGIA. ISSN 0006-3088, JUN 2022, vol. 77, no. 6, SI, p. 1575-1610. Dostupné na: https://doi.org/10.1007/s11756-021-00845-3, Registrované v: WOS

ADCA195 MACGREGOR, E.A. - JANEČEK, Štefan - SVENSSON, B. Relationship of sequence and structure to specificity in the alpha-amylase family of enzymes. In Biochimica et Biophysica Acta, 2001, vol. 1546, p. 1-20. ISSN 0006-3002. Dostupné na: https://doi.org/10.1016/S0167-4838(00)00302-2

Citácie:

1. [1.1] CAPOCCHI, A. - ATHANASSIOU, C.G. - BENELLI, G. - MUCCILLI, V. - KAVALLIERATOS, N.G. - CUNSOLO, V. - SALETTI, R. - FONTANINI, D. A new monomeric alpha-amylase inhibitor from the tetraploid emmer wheat is mostly active against stored product pests. In JOURNAL OF PEST SCIENCE. ISSN 1612-4758, JUN 2022, vol. 95, no. 3, p. 1401-1412. Dostupné na: https://doi.org/10.1007/s10340-021-01447-3, Registrované v: WOS

2. [1.1] CONCHOU, L. - MARTIN, J. - GONçALVES, I.R. - GALISSON, F. - VIOLOT, S. - GUILLIèRE, F. - AGHAJARI, N. - BALLUT, L. The Candida glabrata glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. In GLYCOBIOLOGY. ISSN 0959-6658, MAR 31 2022, vol. 32, no. 4, p. 343-355. Dostupné na: https://doi.org/10.1093/glycob/cwab110, Registrované v: WOS

3. [1.1] GUAN, L. - LONG, H.Y. - REN, F.Z. - LI, Y.X. - ZHANG, H. A Structure-Activity Relationship Study of the Inhibition of α-Amylase by Benzoic Acid and Its Derivatives. In NUTRIENTS. MAY 2022, vol. 14, no. 9. Dostupné na: https://doi.org/10.3390/nu14091931, Registrované v: WOS

4. [1.1] HILDA, K. - BHUVARAGAVAN, S. - KAMATCHI, R. - MEENAKUMARI, M. - JANARTHANAN, S. Cloning, expression and characterization of arcelin and its impact on

digestive enzymes of the stored product insect pest, Callosobruchus maculatus (F.). In PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0048-3575, JAN 2022, vol. 180. Dostupné na: https://doi.org/10.1016/j.pestbp.2021.104982, Registrované v: WOS

5. [1.1] HOSHINO, T. - FUJIWARA, T. The findings of glucosyltransferase enzymes derived from oral streptococci. In JAPANESE DENTAL SCIENCE REVIEW. ISSN 1882-7616, NOV 2022, vol. 58, p. 328-335. Dostupné na: https://doi.org/10.1016/j.jdsr.2022.10.003, Registrované v: WOS

6. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101498, Registrované v: WOS

7. [1.1] LIU, H.C. - PEI, Z. - LI, W. Hypoglycemic and antioxidative activity evaluation of phenolic compounds derived from walnut diaphragm produced in Xinjiang. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, DEC 2022, vol. 46, no. 12. Dostupné na: https://doi.org/10.1111/jfbc.14403, Registrované v: WOS

8. [1.1] NI, G.R. - ZHONG, L.L. - XIA, C.Y. - ZHANG, L.X. - DAI, L.H. - CHEN, R.Y. - ZHAO, Y.Q. - WANG, F. Phenylalanine 314 is essential for the activity of maltogenic amylase from Corallococcus sp. EGB. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, OCT 2022, vol. 69, no. 5, p. 2240-2248. Dostupné na: https://doi.org/10.1002/bab.2282, Registrované v: WOS

9. [1.1] TAM, J.Z. - KONG, Z.M. - AHMED, O. - HE, L.F. - CHEN, B.Y. HBcompare: Classifying Ligand Binding Preferences with Hydrogen Bond Topology. In BIOMOLECULES. NOV 2022, vol. 12, no. 11. Dostupné na: https://doi.org/10.3390/biom12111589, Registrované v: WOS

10. [1.1] UTSUMI, Y. - UTSUMI, C. - TANAKA, M. - TAKAHASHI, S. - OKAMOTO, Y. - ONO, M. - NAKAMURA, Y. - SEKI, M. Suppressed expression of starch branching enzyme 1 and 2 increases resistant starch and amylose content and modifies amylopectin structure in cassava. In PLANT MOLECULAR BIOLOGY. ISSN 0167-4412, MAR 2022, vol. 108, no. 4-5, SI, p. 413-427. Dostupné na: https://doi.org/10.1007/s11103-021-01209-w, Registrované v: WOS

11. [1.1] WANG, Y.L. - YUAN, H.J. - ZHA, S. - JABU, T. - XU, Q.J. Comparative proteomic based analysis of grain nutrients in two hulless barley cultivars. In AGRONOMY JOURNAL. ISSN 0002-1962, SEP 2021, vol. 113, no. 5, p. 3886-3899. Dostupné na: https://doi.org/10.1002/agj2.20804, Registrované v: WOS

12. [1.1] YAN, H. - WEN, F. - XIANG, H.Y. - WEN, Y.C. - SHANG, D.L. - LIU, A.Y. - NIU, Y.C. - XIA, Q.Y. - WANG, G.H. Biochemical characterization and overexpression of alpha-amylase (BmAmy) in silkworm, Bombyx mori. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, APR 2022, vol. 31, no. 2, p. 251-259. Dostupné na: https://doi.org/10.1111/imb.12755, Registrované v: WOS

13. [1.1] ZHANG, H. - YE, Y.T. - DENG, J.L. - ZHAO, P. - MAO, Y.F. - CHEN, Z.X. Rapid unfolding of pig pancreas α-amylase: Kinetics, activity and structure evolution. In FOOD CHEMISTRY. ISSN 0308-8146, JAN 30 2022, vol. 368. Dostupné na: https://doi.org/10.1016/j.foodchem.2021.130795, Registrované v: WOS

14. [1.2] HU, Xiuting - MIAO, Ming. Starch. In Handbook of Dietary Phytochemicals, 2021-08-09, pp. 1909-1953. Dostupné na: https://doi.org/10.1007/978-981-15-4148-3_48, Registrované v: SCOPUS

15. [1.2] LIN, Qianzhu - QIU, Chao - LI, Xiaojing - SANG, Shangyuan - MCCLEMENTS, David Julian - CHEN, Long - LONG, Jie - JIAO, Aiquan - TIAN, Yaoqi - JIN, Zhengyu. The inhibitory mechanism of amylase inhibitors and research progress in nanoparticle-based inhibitors. In Critical Reviews in Food Science and Nutrition, 2022-01-01, pp. ISSN 10408398. Dostupné na: https://doi.org/10.1080/10408398.2022.2098687, Registrované v: SCOPUS

16. [1.2] MARTÍNEZ-ESPINOSA, Rosa María - ALONSO, Micaela Giani - CABRERA, Lorena Simó - MARTÍNEZ, Guillermo - GALIANA, Carmen Pire. Industrial applications of enzymes from haloarchaea. In Extremozymes and their Industrial Applications, 2022-01-01, pp. 289-320. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00014-9, Registrované v: SCOPUS

17. [1.2] ROY, Jetendra Kumar - ARUMUGAM, Nanthakumar - RANJAN, Bibhuti - PURI, Adarsh Kumar - MUKHERJEE, Ashis Kumar - SINGH, Suren - PILLAI, Santhosh. An Overview of Raw Starch Digesting Enzymes and Their Applications in Biofuel Development. In Bioprospecting of Enzymes in Industry, Healthcare and Sustainable Environment, 2021-01-01, pp. 49-85. Dostupné na: https://doi.org/10.1007/978-981-33-4195-1_3, Registrované v: SCOPUS

18. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

19. [1.2] SHARMA, Prayatna - MONDAL, Krishnendu - MONDAL, Keshab Chandra - THAKUR, Nagendra. Hunt for α-amylase from metagenome and strategies to improve its thermostability: a

systematic review. In World Journal of Microbiology and Biotechnology, 2022-11-01, 38, 11, pp. ISSN 09593993. Dostupné na: https://doi.org/10.1007/s11274-022-03396-0, Registrované v: SCOPUS
20. [1.2] ZHANG, Hongtu - DONG, Weijin - CHEN, Nan - XU, Qianda - GAO, Haoxiang - HE, Qiang - ZENG, Weicai. Inhibition Effect and Molecular Mechanism of Tea Polyphenols on the α-Amylase. In Science and Technology of Food Industry, 2022-02-01, 43, 4, pp. 90-96. ISSN 10020306. Dostupné na: https://doi.org/10.13386/j.issn1002-0306.2021060152, Registrované v: SCOPUS

ADCA196 MACKUĽAK, T. - MEDVECKÁ, E. - VOJS - STAŇOVÁ, A. - BRANDEBUROVÁ, P. - GRABIC, R. - GOLOVKO, O. - MARTON, M. - BODÍK, I. - MEDVEĎOVÁ, A. - GÁL, M. - PLANÝ, Matej - KROMKA, A. - ŠPALKOVÁ, V. - ŠKULCOVÁ, A. - HORÁKOVÁ, I. - VOJS, M.**. Boron doped diamond electrode – The elimination of psychoactive drugs and resistant bacteria from wastewater. In Vacuum, 2020, vol. 171, no. 108957. (2019: 2.906 - IF, Q2 - JCR, 0.673 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0042-207X. Dostupné na: https://doi.org/10.1016/j.vacuum.2019.108957

Citácie:
1. [1.1] DE SOUZA, L.P. - SANCHES-NETO, F. - JUNIOR, G.M.Y. - RAMOS, B. - LASTRE-ACOSTA, A.M. - CARVALHO-SILVA, V.H. - TEIXEIRA, A.C.S.C. Photochemical environmental persistence of venlafaxine in an urban water reservoir: A combined experimental and computational investigation. In PROCESS SAFETY AND ENVIRONMENTAL PROTECTION. ISSN 0957-5820, OCT 2022, vol. 166, p. 478-490., Registrované v: WOS
2. [1.1] SOUZA, L.P. - CARNEIRO, J.G.M. - LASTRE-ACOSTA, A.M. - RAMOS, B. - TEIXEIRA, A.C.S.C. Environmental Persistence of the Antidepressant Fluoxetine and Its Pharmaceutical Alternative: Kinetics of Oxidation and Mathematical Simulations. In WATER. NOV 2022, vol. 14, no. 21., Registrované v: WOS

ADCA197 MACHACEK, C. - SUPPER, V. - LEKSA, Vladimír - MITULOVIC, G. - SPITTLER, A. - DRBAL, K. - SUCHANEK, M. - OHRADANOVA-REPIC, A. - STOCKINGER, H. Folate receptor β regulates integrin CD11b/CD18 adhesion of a macrophage subset to collagen. In Journal of immunology, 2016, vol. 197, p. 2229-2238. (2015: 4.985 - IF, Q1 - JCR, 3.571 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.1501878

Citácie:
1. [1.1] HOANG, T.X. - KIM, J.Y. Cell Surface Hsp90-and αMβ2 Integrin-Mediated Uptake of Bacterial Flagellins to Activate Inflammasomes by Human Macrophages. In CELLS. SEP 2022, vol. 11, no. 18. Dostupné na: https://doi.org/10.3390/cells11182878, Registrované v: WOS
2. [1.1] KUROWSKA-STOLARSKA, M. - ALIVERNINI, S. Synovial tissue macrophages in joint homeostasis, rheumatoid arthritis and disease remission. In NATURE REVIEWS RHEUMATOLOGY. ISSN 1759-4790, JUL 2022, vol. 18, no. 7, p. 384-397. Dostupné na: https://doi.org/10.1038/s41584-022-00790-8, Registrované v: WOS

ADCA198 MACHOVIC, M. - SVENSSON, B. - MACGREGOR, E.A. - JANEČEK, Štefan. A new clan of CBM families based on bioinformatics of starch-binding domains from families CBM20 and CBM21. In FEBS Journal, 2005, vol. 272, p. 5497-5513. (2005 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2005.04942.x

Citácie:
1. [1.1] HEDIN, Nicolas - VELAZQUEZ, Maria B. - BARCHIESI, Julieta - GOMEZ-CASATI, Diego F. - BUSI, Maria. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY, 2022, vol. 108, no. 4-5, pp. 363-378. ISSN 0167-4412. Dostupné na: https://doi.org/10.1007/s11103-021-01190-4, Registrované v: WOS

ADCA199 MACHOVIČ, Martin - JANEČEK, Štefan. Starch-binding domains in the post-genome era. In Cellular and Molecular Life Sciences : CMLS, 2006, vol. 63, no. 23, pp. 2710-2724. (2005: 4.582 - IF, Q1 - JCR, 2.691 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-006-6246-9

Citácie:
1. [1.1] HEDIN, Nicolas - VELAZQUEZ, Maria B. - BARCHIESI, Julieta - GOMEZ-CASATI, Diego F. - BUSI, Maria. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY, 2022, vol. 108, no. 4-5, pp. 363-378. ISSN 0167-4412. Dostupné na: https://doi.org/10.1007/s11103-021-01190-4, Registrované v: WOS
2. [1.1] LIU, Zhenyang - WU, Guogan - WU, Huawei. Molecular cloning, and optimized production and characterization of recombinant cyclodextrin glucanotransferase from Bacillus sp. T1. In 3 BIOTECH, 2022, vol. 12, no. 3, pp. ISSN 2190-572X. Dostupné na: https://doi.org/10.1007/s13205-022-03111-8, Registrované v: WOS
3. [1.1] WANG, Meixing - HU, Huizhen - ZHANG, Buyu - ZHENG, Yang - WU, Pan - LU, Zhenghui - ZHANG, Guimin. Discovery of a New Microbial Origin Cold-Active Neopullulanase

Capable for Effective Conversion of Pullulan to Panose. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 13, pp. Dostupné na: https://doi.org/10.3390/ijms23136928, Registrované v: WOS
4. [1.1] ZONG, Xuyan - WEN, Lei - WANG, Yanting - LI, Li. Research progress of glucoamylase with industrial potential. In JOURNAL OF FOOD BIOCHEMISTRY, 2022, vol. 46, no. 7, pp. ISSN 0145-8884. Dostupné na: https://doi.org/10.1111/jfbc.14099, Registrované v: WOS
5. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADCA200 MACHOVIČ, Martin - JANEČEK, Štefan. The evolution of putative starch-binding domains. In FEBS Letters, 2006, vol. 580, no. 27, p. 6349-6358. (2005: 3.415 - IF, Q2 - JCR, 2.159 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/j.febslet.2006.10.041

Citácie:
1. [1.1] HEDIN, Nicolas - VELAZQUEZ, Maria B. - BARCHIESI, Julieta - GOMEZ-CASATI, Diego F. - BUSI, Maria. CBM20CP, a novel functional protein of starch metabolism in green algae. In PLANT MOLECULAR BIOLOGY, 2022, vol. 108, no. 4-5, pp. 363-378. ISSN 0167-4412. Dostupné na: https://doi.org/10.1007/s11103-021-01190-4, Registrované v: WOS

ADCA201 MAJTÁN, Juraj** - JASENAK, M. β-Glucans: multi-functional modulator of wound healing. In Molecules, 2018, vol. 23, art. no. 806. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules23040806

Citácie:
1. [1.1] BIKMURZIN, R. - BANDZEVICIUTE, R. - MARSALKA, A. - MANEIKIS, A. - KALEDIENE, L. FT-IR Method Limitations for β-Glucan Analysis. In MOLECULES. JUL 2022, vol. 27, no. 14., Registrované v: WOS
2. [1.1] CAO, Y.J. - WANG, P.R. - LIU, X.J. - ZHANG, G.L. - CAO, Z. - XUE, H. - HE, Q.M. - WANG, X.L. Improving the outcome of treating striae gravidarum by combined therapies using topical β-glucan and 1565-nm non-ablative fractional laser: A prospective randomized vehicle-controlled parallel group study. In JOURNAL OF DERMATOLOGY. ISSN 0385-2407, SEP 2022, vol. 49, no. 9, p. 829-836., Registrované v: WOS
3. [1.1] CARUSO, M.A. - PIERMARIA, J.A. - ABRAHAM, A.G. - MEDRANO, M. β-glucans obtained from beer spent yeasts as functional food grade additive: Focus on biological activity. In FOOD HYDROCOLLOIDS. ISSN 0268-005X, DEC 2022, vol. 133., Registrované v: WOS
4. [1.1] HAMIDI, M. - OKORO, O.V. - MILAN, P.B. - KHALILI, M.R. - SAMADIAN, H. - NIE, L. - SHAVANDI, A. Fungal exopolysaccharides: Properties, sources, modifications, and biomedical applications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, MAY 15 2022, vol. 284., Registrované v: WOS
5. [1.1] KARUPPUSAMY, S. - RAJAURIA, G. - FITZPATRICK, S. - LYONS, H. - MCMAHON, H. - CURTIN, J. - TIWARI, B.K. - O';DONNELL, C. Biological Properties and Health-Promoting Functions of Laminarin: A Comprehensive Review of Preclinical and Clinical Studies. In MARINE DRUGS. DEC 2022, vol. 20, no. 12., Registrované v: WOS
6. [1.1] KOWALCZEWSKI, P.L. - OLEJNIK, A. - SWITEK, S. - BZDUCHA-WRóBEL, A. - KUBIAK, P. - KUJAWSKA, M. - LEWANDOWICZ, G. Bioactive compounds of potato (Solanum tuberosum L.) juice: from industry waste to food and medical applications. In CRITICAL REVIEWS IN PLANT SCIENCES. ISSN 0735-2689, JAN 2 2022, vol. 41, no. 1, p. 52-89., Registrované v: WOS
7. [1.1] MARTíNEZ-RUIZ, M. - MARTíNEZ-GONZáLEZ, C.A. - KIM, D.H. - SANTIESTEBAN-ROMERO, B. - REYES-PARDO, H. - VILLASEñOR-ZEPEDA, K.R. - MELéNDEZ-SáNCHEZ, E.R. - RAMíREZ-GAMBOA, D. - DíAZ-ZAMORANO, A.L. - SOSA-HERNáNDEZ, J.E. - CORONADO-APODACA, K.G. - GáMEZ-MéNDEZ, A.M. - IQBAL, H.M.N. - PARRA-SALDIVAR, R. Microalgae Bioactive Compounds to Topical Applications Products-A Review. In MOLECULES. JUN 2022, vol. 27, no. 11., Registrované v: WOS
8. [1.1] MUTHURAMALINGAM, K. - KIM, Y. - CHO, M. β-glucan, "the knight of health sector": critical insights on physiochemical heterogeneities, action mechanisms and health implications. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, SEP 1 2022, vol. 62, no. 25, p. 6908-6931., Registrované v: WOS
9. [1.1] RENKE, G. - BAESSO, T. - PAES, R. - RENKE, A. β-Glucan "Trained Immunity" Immunomodulatory Properties Potentiate Tissue Wound Management and Accelerate Fitness Recover. In IMMUNOTARGETS AND THERAPY. 2022, vol. 11, p. 67-73., Registrované v: WOS
10. [1.1] TRINH, X.T. - LONG, N.V. - ANH, L.T.V. - NGA, P.T. - GIANG, N.N. - CHIEN, P.N. - NAM, S.Y. - HEO, C.Y. A Comprehensive Review of Natural Compounds for Wound Healing: Targeting Bioactivity Perspective. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2022, vol. 23, no. 17., Registrované v: WOS

11. [1.1] TROMBINO, S. - CURCIO, F. - DI GIOIA, M.L. - ARMENTANO, B. - POERIO, T. - CASSANO, R. Multifunctional Membranes Based on β-Glucans and Chitosan Useful in Wound Treatment. In MEMBRANES. FEB 2022, vol. 12, no. 2., Registrované v: WOS
12. [1.1] UMAPATHY, V.R. - NATARAJAN, P.M. - SWAMIKANNU, B. Comprehensive Review on Development of Early Diagnostics on Oral Cancer with a Special Focus on Biomarkers. In APPLIED SCIENCES-BASEL. MAY 2022, vol. 12, no. 10., Registrované v: WOS
13. [1.1] XIN, Y. - JI, H. - CHO, E. - ROH, K.B. - YOU, J. - PARK, D. - JUNG, E. Immune-enhancing effect of water-soluble beta-glucan derived from enzymatic hydrolysis of yeast glucan. In BIOCHEMISTRY AND BIOPHYSICS REPORTS. ISSN 2405-5808, JUL 2022, vol. 30., Registrované v: WOS

ADCA202 MAJTÁN, Juraj - BOHOVÁ, Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJTÁN, Tomáš - MAJTÁN, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF-α-induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. In Archives of Dermatological Research, 2013, vol. 305, no. 7, p. 619-627. (2012: 2.708 - IF, Q1 - JCR, 1.117 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0340-3696. Dostupné na: https://doi.org/10.1007/s00403-013-1385-y

Citácie:

1. [1.1] KOWALSKA, G. - ROSICKA-KACZMAREK, J. - MISKIEWICZ, K. - ZAKLOS-SZYDA, M. - ROHN, S. - KANZLER, C. - WIKTORSKA, M. - NIEWIAROWSKA, J. Arabinoxylan-Based Microcapsules Being Loaded with Bee Products as Bioactive Food Components Are Able to Modulate the Cell Migration and Inflammatory Response-In Vitro Study. In NUTRIENTS. JUN 2022, vol. 14, no. 12. Dostupné na: https://doi.org/10.3390/nu14122529, Registrované v: WOS
2. [1.1] LI, Y. - ZHANG, X. - HE, D. - MA, Z.J. - XUE, K. - LI, H.Y. 45S5 Bioglass® works synergistically with siRNA to downregulate the expression of matrix metalloproteinase-9 in diabetic wounds. In ACTA BIOMATERIALIA. ISSN 1742-7061, JUN 2022, vol. 145, p. 372-389. Dostupné na: https://doi.org/10.1016/j.actbio.2022.04.010, Registrované v: WOS
3. [1.1] LIANG, J.C. - ZENG, H.J. - QIAO, L. - JIANG, H. - YE, Q. - WANG, Z.L. - LIU, B. - FAN, Z.J. 3D Printed Piezoelectric Wound Dressing with Dual Piezoelectric Response Models for Scar-Prevention Wound Healing. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, JUL 13 2022, vol. 14, no. 27, p. 30507-30522. Dostupné na: https://doi.org/10.1021/acsami.2c04168, Registrované v: WOS
4. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS
5. [1.1] TOMCZYK, M. - BOCIAN, A. - SIDOR, E. - MILEK, M. - ZAGULA, G. - DZUGAN, M. The Use of HPTLC and SDS-PAGE Methods for Coniferous Honeydew Honey Fingerprinting Compiled with Mineral Content and Antioxidant Activity. In MOLECULES. FEB 2022, vol. 27, no. 3. Dostupné na: https://doi.org/10.3390/molecules27030720, Registrované v: WOS
6. [1.1] YANG, C.C. - HSIAO, L.D. - SHIH, Y.F. - YU, Z.Y. - YANG, C.M. Anti-Inflammatory Effects of Rhamnetin on Bradykinin-Induced Matrix Metalloproteinase-9 Expression and Cell Migration in Rat Brain Astrocytes. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2022, vol. 23, no. 2. Dostupné na: https://doi.org/10.3390/ijms23020609, Registrované v: WOS
7. [1.2] ADUSEI-MENSAH, Frank - HAKALEHTO, Elias - TIKKANEN-KAUKANEN, Carina. Microbiological and chemical safety of African herbal and natural products. In Microbiology of Food Quality: Challenges in Food Production and Distribution During and After the Pandemics, 2021-12-06, pp. 21-45. Dostupné na: https://doi.org/10.1515/9783110724967-004, Registrované v: SCOPUS
8. [1.2] LEE, Yeon Ji - PARK, Kyeong Soo - KIM, Dong Yeon - SHIM, Hyung Sup. Evaluating Effectiveness of Medical Grade Honey-Containing Alginate Dressing in Patients with Chronic Lower Extremity Wounds. In Journal of Wound Management and Research, 2021-10-01, 17, 3, pp. 178-186. ISSN 25860402. Dostupné na: https://doi.org/10.22467/jwmr.2021.01557, Registrované v: SCOPUS
9. [1.2] NAVARRO-HORTAL, María D. - ROMERO-MÁRQUEZ, Jose M. - JIMÉNEZ-TRIGO, Victoria - XIAO, Jianbo - GIAMPIERI, Francesca - FORBES-HERNÁNDEZ, Tamara Y. - GROSSO, Giuseppe - BATTINO, Maurizio - SÁNCHEZ-GONZÁLEZ, Cristina - QUILES, José L. Molecular bases for the use of functional foods in the management of healthy aging: Berries, curcumin, virgin olive oil and honey; three realities and a promise. In Critical Reviews in Food Science and Nutrition, 2022-01-01, pp. ISSN 10408398. Dostupné na: https://doi.org/10.1080/10408398.2022.2098244, Registrované v: SCOPUS
10. [1.2] YUPANQUI MIELES, Joel - VYAS, Cian - ASLAN, Enes - HUMPHREYS, Gavin - DIVER, Carl - BARTOLO, Paulo. Honey: An Advanced Antimicrobial and Wound Healing

Biomaterial for Tissue Engineering Applications. In Pharmaceutics, 2022-08-01, 14, 8, pp. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: SCOPUS

ADCA203 MAJTÁN, Juraj - KOGAN, Grigorij - KOVÁČOVÁ, Elena - BÍLIKOVÁ, Katarína - SIMUTH, Jozef. Stimulation of TNF-α release by fungal cell wall polysaccharides. In Zeitschrift fur Naturforschung C-A Journal of Bioscenes, 2005, vol. 60, p. 921-926. Dostupné na: https://doi.org/10.1515/znc-2005-11-1216

Citácie:

1. [1.1] CONLON, N. - MURPHY, R.A. - CORRIGAN, A. - DOYLE, S. - OWENS, R.A. - FAGAN, S. Quantitative Proteomic Analysis Reveals Yeast Cell Wall Products Influence the Serum Proteome Composition of Broiler Chickens. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. OCT 2022, vol. 23, no. 19. Dostupné na: https://doi.org/10.3390/ijms231911844, Registrované v: WOS

2. [1.1] DE LAGUNA, F.B. - CABRERA, C. - GONZáLEZ, A.B. - DE PASCUAL, C. - PALLARéS, F.J. - CHEVAUX, E. - CASTEX, M. - SAORNIL, D. - LEBRETON, P. - RAMIS, G. Effect of Feeding Saccharomyces cerevisiae boulardii CNCM I-1079 to Sows and Piglets on Piglets'; Immune Response after Vaccination against Actinobacillus pleuropneumoniae. In ANIMALS. ISSN 2076-2615, OCT 2022, vol. 12, no. 19. Dostupné na: https://doi.org/10.3390/ani12192513, Registrované v: WOS

3. [1.1] NASIRI, K. - SADEGHI, A.A. - NIKKHAH, A. - CHAMANI, M. Effects of live and autolyzed yeast supplementation during transition period on ruminal fermentation, blood attributes, and immune response in dairy cows under heat stress condition. In ANIMAL BIOTECHNOLOGY. ISSN 1049-5398, 2022 SEP 26 2022. Dostupné na: https://doi.org/10.1080/10495398.2022.2126366, Registrované v: WOS

4. [1.1] NIKKHAH, M. - CHAMANI, M. - SADEGHI, A.A. - HASAN-SAJEDI, R. Effects of enzymatically hydrolyzed yeast supplementation on blood attributes, antioxidant status and gene expression of cytokines in vaccinated dairy cows. In ANIMAL BIOTECHNOLOGY. ISSN 1049-5398, 2022 NOV 3 2022. Dostupné na: https://doi.org/10.1080/10495398.2022.2140058, Registrované v: WOS

ADCA204 MAJTÁN, Juraj - KOVÁČOVÁ, Elena - BÍLIKOVÁ, Katarína - SIMUTH, Jozef. The immunostimulatory effect of the recombinant apalbumin 1-major honeybee royal jelly protein-on TNF alpha release. In International Immunopharmacology, 2006, vol. 6, no. 2, p. 269-278. (2005: 2.008 - IF, Q2 - JCR, 0.784 - SJR, Q2 - SJR). ISSN 1567-5769. Dostupné na: https://doi.org/10.1016/j.intimp.2005.08.014

Citácie:

1. [1.1] BAKOUR, M. - LAAROUSSI, H. - OUSAAID, D. - EL GHOUIZI, A. - ES-SAFI, I. - MECHCHATE, H. - LYOUSSI, B. New Insights into Potential Beneficial Effects of Bioactive Compounds of Bee Products in Boosting Immunity to Fight COVID-19 Pandemic: Focus on Zinc and Polyphenols. In NUTRIENTS. MAR 2022, vol. 14, no. 5. Dostupné na: https://doi.org/10.3390/nu14050942, Registrované v: WOS

2. [1.1] HUANG, X. - LIN, N. - LIANG, X.L. - ZHANG, H. Dermatan sulfate and chondroitin sulfate from Lophius litulon alleviate the allergy sensitized by major royal jelly protein 1. In FOOD & FUNCTION. ISSN 2042-6496, JAN 24 2022, vol. 13, no. 2, p. 587-595. Dostupné na: https://doi.org/10.1039/d1fo03244e, Registrované v: WOS

3. [1.1] MASAD, R.J. - NASSER, R.A. - BASHIR, G. - MOHAMED, Y.A. - AL-SBIEI, A. - AL-SAAFEEN, B.H. - FERNANDEZ-CABEZUDO, M.J. - AL-RAMADI, B.K. Characterization of immunomodulatory responses induced by manuka honey. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, NOV 2 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fimmu.2022.1020574, Registrované v: WOS

4. [1.1] MONIRUZZAMAN, M. - KHAN, A.R. - HAQ, M.A. - NAZNIN, R.A. - HAQUE, M. Pediatric First-Degree Burn Management With Honey and 1% Silver Sulfadiazine (Ag-SD): Comparison and Contrast. In CUREUS JOURNAL OF MEDICAL SCIENCE. DEC 22 2022, vol. 14, no. 12. Dostupné na: https://doi.org/10.7759/cureus.32842, Registrované v: WOS

5. [1.1] MURESAN, C.I. - DEZMIREAN, D.S. - MARC, B.D. - SUHAROSCHI, R. - POP, O.L. - BUTTSTEDT, A. Biological properties and activities of major royal jelly proteins and their derived peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, NOV 2022, vol. 98. Dostupné na: https://doi.org/10.1016/j.jff.2022.105286, Registrované v: WOS

6. [1.1] RUSSELL, F.D. - VISAGIE, J.C. - NOLL, J.L. Secretion of IL-6 by fibroblasts exposed to Australian honeys involves lipopolysaccharide and is independent of floral source. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 5 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-21130-6, Registrované v: WOS

7. [1.2] ADUSEI-MENSAH, Frank - HAKALEHTO, Elias - TIKKANEN-KAUKANEN, Carina. Microbiological and chemical safety of African herbal and natural products. In Microbiology of Food Quality: Challenges in Food Production and Distribution During and After the Pandemics,

2021-12-06, pp. 21-45. Dostupné na: https://doi.org/10.1515/9783110724967-004, Registrované v: SCOPUS

ADCA205 MAJTÁN, Juraj - BÍLIKOVÁ, Katarína - MARKOVIC, O. - GROF, J. - KOGAN, Grigorij - ŠIMÚTH, Jozef. Isolation and characterization of chitin from bumblebee (Bombus terrestris). In International Journal of Biological Macromolecules, 2007, vol. 40, no. 3, pp. 237-241. (2006: 1.323 - IF, Q4 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2006.07.010

Citácie:

1. [1.1] GOULARTE, N.F. - KALLEM, T. - CEGELSKI, L. Chemical and Molecular Composition of the Chrysalis Reveals Common Chitin-Rich Structural Framework for Monarchs and Swallowtails. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, MAR 15 2022, vol. 434, no. 5. Dostupné na: https://doi.org/10.1016/j.jmb.2022.167456, Registrované v: WOS

2. [1.1] GUARNIERI, A. - TRIUNFO, M. - SCIEUZO, C. - IANNICIELLO, D. - TAFI, E. - HAHN, T. - ZIBEK, S. - SALVIA, R. - DE BONIS, A. - FALABELLA, P. Antimicrobial properties of chitosan from different developmental stages of the bioconverter insect Hermetia illucens. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 16 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-12150-3, Registrované v: WOS

3. [1.1] GUPTA, V. - BISWAS, D. - ROY, S. A Comprehensive Review of Biodegradable Polymer-Based Films and Coatings and Their Food Packaging Applications. In MATERIALS. SEP 2022, vol. 15, no. 17. Dostupné na: https://doi.org/10.3390/ma15175899, Registrované v: WOS

4. [1.1] HAHN, T. - TAFI, E. - VON SEGGERN, N. - FALABELLA, P. - SALVIA, R. - THOMä, J. - FEBEL, E. - FIJALKOWSKA, M. - SCHMITT, E. - STEGBAUER, L. - ZIBEK, S. Purification of Chitin from Pupal Exuviae of the Black Soldier Fly. In WASTE AND BIOMASS VALORIZATION. ISSN 1877-2641, APR 2022, vol. 13, no. 4, SI, p. 1993-2008. Dostupné na: https://doi.org/10.1007/s12649-021-01645-1, Registrované v: WOS

5. [1.1] IBER, B.T. - KASAN, N.A. - TORSABO, D. - OMUWA, J.W. A Review of Various Sources of Chitin and Chitosan in Nature. In JOURNAL OF RENEWABLE MATERIALS. ISSN 2164-6325, 2022, vol. 10, no. 4, p. 1097-1123. Dostupné na: https://doi.org/10.32604/jrm.2022.018142, Registrované v: WOS

6. [1.1] KHELIFA, N. - AITHAMOUDI, S. - LAOUFI, N.A. Preparation and characterization of biosorbent of shrimp co products-based and its potential application in the removal of an anionic dye. In DESALINATION AND WATER TREATMENT. ISSN 1944-3994, DEC 2022, vol. 279, p. 195-202. Dostupné na: https://doi.org/10.5004/dwt.2022.29108, Registrované v: WOS

7. [1.1] MOHAN, K. - GANESAN, A.R. - EZHILARASI, P.N. - KONDAMAREDDY, K.K. - RAJAN, D.K. - SATHISHKUMAR, P. - RAJARAJESWARAN, J. - CONTERNO, L. Green and eco-friendly approaches for the extraction of chitin and chitosan: A review. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, JUL 1 2022, vol. 287. Dostupné na: https://doi.org/10.1016/j.carbpol.2022.119349, Registrované v: WOS

8. [1.1] TRIUNFO, M. - TAFI, E. - GUARNIERI, A. - SALVIA, R. - SCIEUZO, C. - HAHN, T. - ZIBEK, S. - GAGLIARDINI, A. - PANARIELLO, L. - COLTELLI, M.B. - DE BONIS, A. - FALABELLA, P. Characterization of chitin and chitosan derived from Hermetia illucens, a further step in a circular economy process. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 22 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-10423-5, Registrované v: WOS

ADCA206 MAJTÁN, Juraj - KUMAR, P. - MAJTÁN, Tomáš - WALLS, A. F. - KLAUDINY, Jaroslav. Effect of honey and its major royal jelly protein 1 on cytokine and MMP-9 mRNA transcripts in human keratinocytes. In Experimental Dermatology, 2010, vol. 19, no. 8, p. e73-e79. (2009: 3.239 - IF, 1.327 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0906-6705. Dostupné na: https://doi.org/10.1111/j.1600-0625.2009.00994.x

Citácie:

1. [1.1] BOSE, D. - CHAUDHARY, A. - PADMAVATI, M. - CHATTERJEE, J. - BANERJEE, R. In vitro evaluation of anti-proliferative activity of protein from Litchi chinensis honey against human cervical cancer cell line (HeLa). In JOURNAL OF HERBAL MEDICINE. ISSN 2210-8033, FEB 2022, vol. 31., Registrované v: WOS

2. [1.1] BUTTSTEDT, A. The role of 10-hydroxy-Delta 2-decenoic acid in the formation of fibrils of the major royal jelly protein 1/apisimin/24-methylenecholesterol complex isolated from honey bee (Apis mellifera) royal jelly. In EUROPEAN JOURNAL OF ENTOMOLOGY. 2022, vol. 119, p. 448-453., Registrované v: WOS

3. [1.1] KHATTABI, L. - RAGHAY, K. - DAKKACH, M. - ALLOUCH, M. Complete Healing and Short-term Treatment by Argania Honey Dressing in a Venous Leg Ulcer: A Case Report. In CURRENT TRADITIONAL MEDICINE. ISSN 2215-0838, 2022, vol. 8, no. 2., Registrované v: WOS

4. [1.1] MASAD, R.J. - NASSER, R.A. - BASHIR, G. - MOHAMED, Y.A. - AL-SBIEI, A. -

AL-SAAFEEN, B.H. - FERNANDEZ-CABEZUDO, M.J. - AL-RAMADI, B.K. Characterization of immunomodulatory responses induced by manuka honey. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, NOV 2 2022, vol. 13., Registrované v: WOS
5. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8., Registrované v: WOS
6. [1.1] MURESAN, C.I. - DEZMIREAN, D.S. - MARC, B.D. - SUHAROSCHI, R. - POP, O.L. - BUTTSTEDT, A. Biological properties and activities of major royal jelly proteins and their derived peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, NOV 2022, vol. 98., Registrované v: WOS
7. [1.1] PLEEGING, C.C.F. - WAGENER, F.A.D.T.G. - DE ROOSTER, H. - CREMERS, N.A.J. Revolutionizing non-conventional wound healing using honey by simultaneously targeting multiple molecular mechanisms. In DRUG RESISTANCE UPDATES. ISSN 1368-7646, MAY 2022, vol. 62., Registrované v: WOS
8. [1.1] WULTANSKA, D. - PATERCZYK, B. - NOWAKOWSKA, J. - PITUCH, H. The Effect of Selected Bee Products on Adhesion and Biofilm of Clostridioides difficile Strains Belonging to Different Ribotypes. In MOLECULES. NOV 2022, vol. 27, no. 21., Registrované v: WOS
9. [1.1] ZHOU, Y.X. - WANG, D.D. - ZHOU, S.Q. - DUAN, H. - GUO, J.H. - YAN, W.J. Nutritional Composition, Health Benefits, and Application Value of Edible Insects: A Review. In FOODS. DEC 2022, vol. 11, no. 24., Registrované v: WOS
10. [1.2] MURNANE, Sarah. Natural products in the treatment of unremitting wounds secondary to diabetes or peripheral vascular disease. In Medicinal Plants for Cosmetics, Health and Diseases, 2022-07-19, pp. 97-108. Dostupné na: https://doi.org/10.1201/9781003108375-6, Registrované v: SCOPUS

ADCA207 MAJTÁN, Juraj** - BUČEKOVÁ, Marcela - KAFANTARIS, I. - SZWEDA, P. - HAMMER, K. - MOSSIALOS, D. Honey antibacterial activity: A neglected aspect of honey quality assurance as functional food. In Trends in Food Science and Technology, 2021, vol. 118, pp. 870-886. (2020: 12.563 - IF, Q1 - JCR, 2.676 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0924-2244. Dostupné na: https://doi.org/10.1016/j.tifs.2021.11.012

Citácie:
1. [1.1] ARII, Y. - NISHIZAWA, K. Development of Tofun: A new sweet confection made from soymilk and honey. In HELIYON. SEP 2022, vol. 8, no. 9., Registrované v: WOS
2. [1.1] BERG, A. - MCCARTHY, D. A soy-yoghurt-honey product as a therapeutic functional food: mode of action and narrative review. In HELIYON. NOV 2022, vol. 8, no. 11., Registrované v: WOS
3. [1.1] BERG, Aloys - MCCARTHY, David. A soy-yoghurt-honey product as a therapeutic functional food: mode of action and narrative review. In HELIYON, 2022, vol. 8, no. 11, pp., Registrované v: WOS
4. [1.1] FARKAS, A. - BALAZS, V.L. - KOSZEGI, T. - CSEPREGI, R. - KEREKES, E. - HORVATH, G. - SZABO, P. - GAAL, K. - KOCSIS, M. Antibacterial and Biofilm Degradation Effects of Hungarian Honeys Linked With Botanical Origin, Antioxidant Capacity and Mineral Content. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JUL 13 2022, vol. 9., Registrované v: WOS
5. [1.1] KANELIS, D. - LIOLIOS, V. - TANANAKI, C. - RODOPOULOU, M.A. Determination of the Carbohydrate Profile and Invertase Activity of Adulterated Honeys after Bee Feeding. In APPLIED SCIENCES-BASEL. APR 2022, vol. 12, no. 7., Registrované v: WOS
6. [1.1] LU, Y.W. - ZHANG, X.D. - HUANG, Y.M. Tuning nanozyme property of Co@NC via V doping to construct colorimetric sensor array for quantifying and discriminating antioxidant phenolic compounds. In BIOSENSORS & BIOELECTRONICS. ISSN 0956-5663, NOV 1 2022, vol. 215., Registrované v: WOS
7. [1.1] PAPA, G. - MAIER, R. - DURAZZO, A. - LUCARINI, M. - KARABAGIAS, I.K. - PLUTINO, M. - BIANCHETTO, E. - AROMOLO, R. - PIGNATTI, G. - AMBROGIO, A. - PELLECCHIA, M. - NEGRI, I. The Honey Bee Apis mellifera: An Insect at the Interface between Human and Ecosystem Health. In BIOLOGY-BASEL. FEB 2022, vol. 11, no. 2., Registrované v: WOS
8. [1.1] PROKISCH, J. - EL-RAMADY, H. - DAROCZI, L. - NAGY, E. - BADGAR, K. - KISS, A. - SHAIKH, A.M. - GILANYI, I. - OLAH, C. Functional Yogurt Fortified with Honey Produced by Feeding Bees Natural Plant Extracts for Controlling Human Blood Sugar Level. In PLANTS-BASEL. JUN 2022, vol. 11, no. 11., Registrované v: WOS
9. [1.1] STAVROPOULOU, E. - VOIDAROU, C. - ROZOS, G. - VAOU, N. - BARDANIS, M. - KONSTANTINIDIS, T. - VRIONI, G. - TSAKRIS, A. Antimicrobial Evaluation of Various Honey Types against Carbapenemase-Producing Gram-Negative Clinical Isolates. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAR 2022, vol. 11, no. 3., Registrované v: WOS

10. [1.1] TSIKNAKIS, N. - SAVVIDAKI, E. - MANIKIS, G.C. - GOTSIOU, P. - REMOUNDOU, I. - MARIAS, K. - ALISSANDRAKIS, E. - VIDAKIS, N. Pollen Grain Classification Based on Ensemble Transfer Learning on the Cretan Pollen Dataset. In PLANTS-BASEL. APR 2022, vol. 11, no. 7., Registrované v: WOS
11. [1.1] ZAILANI, N.S. - ADNAN, A. SUBSTRATES AND METABOLIC PATHWAYS IN SYMBIOTIC CULTURE OF BACTERIA AND YEAST (SCOBY) FERMENTATION: A MINI REVIEW. In JURNAL TEKNOLOGI-SCIENCES & ENGINEERING. ISSN 0127-9696, SEP 2022, vol. 84, no. 5, p. 155-165., Registrované v: WOS
12. [1.1] ZHOU, L.P. - ZENG, Z.H. - LIU, S.Y. - MIN, T.T. - ZHANG, W.M. - BIAN, X.C. - DU, H.W. - ZHANG, P.X. - WEN, Y.Q. Multifunctional DNA Hydrogel Enhances Stemness of Adipose-Derived Stem Cells to Activate Immune Pathways for Guidance Burn Wound Regeneration. In ADVANCED FUNCTIONAL MATERIALS. ISSN 1616-301X, NOV 2022, vol. 32, no. 46., Registrované v: WOS
13. [1.1] ZHOU, Liping - ZENG, Zehua - LIU, Songyang - MIN, Tiantian - ZHANG, Wenmin - BIAN, Xiaochun - DU, Hongwu - ZHANG, Peixun - WEN, Yongqiang. Multifunctional DNA Hydrogel Enhances Stemness of Adipose-Derived Stem Cells to Activate Immune Pathways for Guidance Burn Wound Regeneration. In ADVANCED FUNCTIONAL MATERIALS, 2022, vol. 32, no. 46, pp. ISSN 1616-301X., Registrované v: WOS

ADCA208 MAJTÁN, Juraj** - BUČEKOVÁ, Marcela - JESEŇÁK, M. Natural products and skin diseases. In Molecules, 2021, vol. 26, p. 4489. (2020: 4.412 - IF, Q2 - JCR, 0.782 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules26154489

Citácie:

1. [1.1] DRANSEIKIENE, D. - BALCIUNAITE-MURZIENE, G. - KAROSIENE, J. - MORUDOV, D. - JUODZIUKYNIENE, N. - HUDZ, N. - GERBUTAVICIENE, R.J. - SAVICKIENE, N. Cyano-Phycocyanin: Mechanisms of Action on Human Skin and Future Perspectives in Medicine. In PLANTS-BASEL. MAY 2022, vol. 11, no. 9., Registrované v: WOS

ADCA209 MAJTÁN, Juraj** - SOJKA, M. - PÁLENÍKOVÁ, Helena - BUČEKOVÁ, Marcela - MAJTAN, V. Vitamin C enhances the antibacterial activity of honey against planktonic and biofilm-embedded bacteria. In Molecules, 2020, vol. 25, no. 992. (2019: 3.267 - IF, Q2 - JCR, 0.698 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules25040992

Citácie:

1. [1.1] ALAERJANI, W.M.A. - ABU-MELHA, S. - ALSHAREEF, R.M.H. - AL-FARHAN, B.S. - GHRAMH, H.A. - AL-SHEHRI, B.M.A. - BAJABER, M.A. - KHAN, K.A. - ALROOQI, M.M. - MODAWE, G.A. - MOHAMMED, M.E.A. Biochemical Reactions and Their Biological Contributions in Honey. In MOLECULES. AUG 2022, vol. 27, no. 15., Registrované v: WOS
2. [1.1] ALSHAMMARI, G.M. - AHMED, M.A. - ALSULAMI, T. - HAKEEM, M.J. - IBRAHEEM, M.A. - AL-NOURI, D.M. Phenolic Compounds, Antioxidant Activity, Ascorbic Acid, and Sugars in Honey from Ingenious Hail Province of Saudi Arabia. In APPLIED SCIENCES-BASEL. AUG 2022, vol. 12, no. 16., Registrované v: WOS
3. [1.1] ELBARADEI, A. - YAKOUT, M.A. Stenotrophomonas maltophilia: Genotypic Characterization of Virulence Genes and The Effect of Ascorbic Acid on Biofilm Formation. In CURRENT MICROBIOLOGY. ISSN 0343-8651, JUN 2022, vol. 79, no. 6., Registrované v: WOS
4. [1.1] JALDIN-CRESPO, L. - SILVA, N. - MARTINEZ, J. Nanomaterials Based on Honey and Propolis for Wound Healing-A Mini-Review. In NANOMATERIALS. DEC 2022, vol. 12, no. 24., Registrované v: WOS
5. [1.1] OLUWOLE, D.O. - COLEMAN, L. - BUCHANAN, W. - CHEN, T. - LA RAGIONE, R.M. - LIU, L.X. Antibiotics-Free Compounds for Chronic Wound Healing. In PHARMACEUTICS. MAY 2022, vol. 14, no. 5., Registrované v: WOS
6. [1.1] PLEEGING, C.C.F. - WAGENER, F.A.D.T.G. - DE ROOSTER, H. - CREMERS, N.A.J. Revolutionizing non-conventional wound healing using honey by simultaneously targeting multiple molecular mechanisms. In DRUG RESISTANCE UPDATES. ISSN 1368-7646, MAY 2022, vol. 62., Registrované v: WOS

ADCA210 MAJTÁN, Tomáš - KRAUS, J.P. Folding and activity of mutant cystathionine â-synthase depends on the position and nature of the purification tag: characterization of the R266K CBS mutant. In Protein Expression and Purification, 2012, vol. 82, p. 317-324. (2011: 1.587 - IF, Q3 - JCR, 0.798 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1046-5928. Dostupné na: https://doi.org/10.1016/j.pep.2012.01.019

Citácie:

1. [1.1] KUMARI, Kritika - SINGH, Khuraijam Surjalal - SINGH, Kuldeep - BAKHSHI, Radhika - SINGH, Laishram Rajendrakumar. TMAO to the rescue of pathogenic protein variants. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, 2022, vol. 1866, no. 11, pp. ISSN

0304-4165. Dostupné na: https://doi.org/10.1016/j.bbagen.2022.130214, Registrované v: WOS

ADCA211 MAJTÁN, Tomáš - FREEMAN, K.M. - SMITH, A.T. - BURSTYN, J.N. - KRAUS, J.P. Purification and characterization of cystathionine b-synthase bearing a cobalt protoporphyrin. In Archives of Biochemistry and Biophysics, 2011, vol. 508, p. 25-30. (2010: 3.022 - IF, Q2 - JCR, 1.399 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2011.01.012

Citácie:

1. [1.1] KRUGER, Warren D. How to fix a broken protein: restoring function to mutant human cystathionine beta-synthase. In HUMAN GENETICS, 2022, vol. 141, no. 7, pp. 1299-1308. ISSN 0340-6717. Dostupné na: https://doi.org/10.1007/s00439-021-02386-w, Registrované v: WOS

ADCA212 MAJTÁN, Tomáš - FRERMAN, F.E. - KRAUS, J.P. Effect of cobalt on Escherichia coli metabolism and metalloporphyrin formation. In Biometals, 2011, vol. 24, p. 335-347. (2010: 2.320 - IF, Q3 - JCR, 1.075 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0966-0844. Dostupné na: https://doi.org/10.1007/s10534-010-9400-7

Citácie:

1. [1.1] BOUGUERRA, S. - GAVINA, A. - NATAL-DA-LUZ, T. - SOUSA, J.P. - KSIBI, M. - PEREIRA, R. The use of soil enzymes activity, microbial biomass, and basal respiration to assess the effects of cobalt oxide nanomaterial in soil microbiota. In APPLIED SOIL ECOLOGY. ISSN 0929-1393, JAN 2022, vol. 169., Registrované v: WOS

2. [1.1] MATSHWELE, J.T.P. - NAREETSILE, F. - TEBOGO, M. - MAZIMBA, O. - MASITA, F.P. - JULIUS, L. - JONGMAN, M. - ODISITSE, S. Physicochemical properties, crystal structures, antibacterial properties and in silico characterization of cobalt and copper metal complexes and their acido complex crystals with 4-chloromethylpyridine. In POLYHEDRON. ISSN 0277-5387, NOV 1 2022, vol. 226., Registrované v: WOS

3. [1.1] PAL, A. - BHATTACHARJEE, S. - SAHA, J. - SARKAR, M. - MANDAL, P. Bacterial survival strategies and responses under heavy metal stress: a comprehensive overview. In CRITICAL REVIEWS IN MICROBIOLOGY. ISSN 1040-841X, MAY 4 2022, vol. 48, no. 3, p. 327-355., Registrované v: WOS

ADCA213 MAJTÁN, Tomáš - LIU, L. - CARPENTER, J.F. - KRAUS, J.P. Rescue of Cystathionine beta-Synthase (CBS) mutants with chemical chaperones purification and characterization of eight CBS mutant enzymes. In Journal of Biological Chemistry, 2010, vol. 285, p. 15866-15873. (2009: 5.328 - IF, 4.235 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M110.107722

Citácie:

1. [1.1] KRUGER, Warren D. How to fix a broken protein: restoring function to mutant human cystathionine beta-synthase. In HUMAN GENETICS, 2022, vol. 141, no. 7, pp. 1299-1308. ISSN 0340-6717. Dostupné na: https://doi.org/10.1007/s00439-021-02386-w, Registrované v: WOS

ADCA214 MAJTÁN, Tomáš - SINGH, L.R. - WANG, L.N. - KRUGER, W.D. - KRAUS, J.P. Active Cystathionine beta-Synthase Can Be Expressed in Heme-free Systems in the Presence of Metal-substituted Porphyrins or a Chemical Chaperone. In Journal of Biological Chemistry, 2008, vol. 283, p. 34588-34595. (2007: 5.581 - IF, Q1 - JCR, 4.338 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M805928200

Citácie:

1. [1.1] CONTER, Carolina - FRUNCILLO, Silvia - FAVRETTO, Filippo - FERNANDEZ-RODRIGUEZ, Carmen - DOMINICI, Paola - MARTINEZ-CRUZ, Luis Alfonso - ASTEGNO, Alessandra. Insights into Domain Organization and Regulatory Mechanism of Cystathionine Beta-Synthase from Toxoplasma gondii. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 15, pp. Dostupné na: https://doi.org/10.3390/ijms23158169, Registrované v: WOS

2. [1.1] TRAN, Jenny U. - BROWN, Breann L. Structural Basis for Allostery in PLP-dependent Enzymes. In FRONTIERS IN MOLECULAR BIOSCIENCES, 2022, vol. 9, no., pp. Dostupné na: https://doi.org/10.3389/fmolb.2022.884281, Registrované v: WOS

ADCA215 MAJTÁN, Tomáš - BUKOVSKÁ, Gabriela - TIMKO, Jozef. DNA microarray – technique and applications in microbial systems. In Folia microbiologica, 2004, vol. 49, p. 635-664. (2003: 0.857 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/bf02931546

Citácie:

1. [1.2] GUNJAL, Aparna - GUPTA, Shruti - NWEZE, Julius Eyiuche - NWEZE, Justus Amuche. Metagenomics in bioremediation: Recent advances, challenges, and perspectives. In Metagenomics to Bioremediation: Applications, Cutting Edge Tools, and Future Outlook, 2022-01-01, pp. 81-102. Dostupné na: https://doi.org/10.1016/B978-0-323-96113-4.00018-4, Registrované v: SCOPUS

2. [1.2] SHARMA, Ayushi - VASHISTT, Jitendraa - SHRIVASTAVA, Rahul. Next-generation omics

technologies to explore microbial diversity. In Microbes in Land Use Change Management, 2021-01-01, pp. 541-563. Dostupné na: https://doi.org/10.1016/B978-0-12-824448-7.00026-7, Registrované v: SCOPUS

ADCA216 MAJTÁNOVÁ, Nora - CERNAK, M. - MAJTÁN, Juraj. Honey: a natural remedy for eye diseases. In Forschende Komplementärmedizin, 2016, vol. 23, no. 6, p. 364-369. (2015: 0.551 - IF, Q4 - JCR, 0.342 - SJR, Q2 - SJR). ISSN 1021-7096. Dostupné na: https://doi.org/10.1159/000452116

Citácie:

1. [1.1] RASHID, N.A. - MOHAMMED, S.N.F. - HALIM, S.A.S.A. - GHAFAR, N.A. - JALIL, N.A.A. Therapeutic Potential of Honey and Propolis on Ocular Disease. In PHARMACEUTICALS. NOV 2022, vol. 15, no. 11. Dostupné na: https://doi.org/10.3390/ph15111419, Registrované v: WOS

2. [1.1] SOLIMAN, A.M. - SIM, R.H. - DAS, S. - MAHAKKANUKRAUH, P. Therapeutic Targeting of Inflammatory Pathways with Emphasis on NLRP3 Inflammasomes by Natural Products: A Novel Approach for the Treatment of Inflammatory Eye Diseases. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2022, vol. 29, no. 16, p. 2891-2912. Dostupné na: https://doi.org/10.2174/0929867328666210910154330, Registrované v: WOS

3. [1.2] COPPOCK, Robert W. Bee products as nutraceuticals to nutraceuticals for bees. In Nutraceuticals: Efficacy, Safety and Toxicity, 2021-01-01, pp. 813-833. Dostupné na: https://doi.org/10.1016/B978-0-12-821038-3.00047-1, Registrované v: SCOPUS

ADCA217 MAJZLOVÁ, Katarína - PUKAJOVÁ, Z. - JANEČEK, Štefan. Tracing the evolution of the α-amylase subfamily GH13_36 covering the amylolytic enzymes intermediate between oligo-1,6-glucosidases and neopullulanases. In Carbohydrate Research, 2013, vol. 367, p. 48–57. (2012: 2.044 - IF, Q2 - JCR, 0.772 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2012.11.022

Citácie:

1. [1.1] ZHANG, Q. - PRITCHARD, J. - MIEOG, J. - BYRNE, K. - COLGRAVE, M.L. - WANG, J.R. - RAL, J.P.F. Over-Expression of a Wheat Late Maturity Alpha-Amylase Type 1 Impact on Starch Properties During Grain Development and Germination. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, MAR 29 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fpls.2022.811728, Registrované v: WOS

ADCA218 MALCOVÁ, I. - FARKAŠOVSKÝ, Marian - SENOHRABKOVA, L. - VASICOVÁ, P. - HASEK, J. New integrative modules for multicolor-protein labeling and live-cell imaging in Saccharomyces cerevisiae. In FEMS Yeast Research, 2016, vol. 16, art. no. fow027. (2015: 2.479 - IF, Q2 - JCR, 1.196 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1567-1356. Dostupné na: https://doi.org/10.1093/femsyr/fow027

Citácie:

1. [1.1] ALBACAR, M. - VELáZQUEZ, D. - CASAMAYOR, A. - ARIñO, J. The toxic effects of yeast Ppz1 phosphatase are counteracted by subcellular relocalization mediated by its regulatory subunit Hal3. In FEBS LETTERS. ISSN 0014-5793, JUN 2022, vol. 596, no. 12, p. 1556-1566. Dostupné na: https://doi.org/10.1002/1873-3468.14330, Registrované v: WOS

2. [1.1] MATVEENKO, A.G. - RYZHKOVA, V.E. - ZAYTSEVA, N.A. - DANILOV, L.G. - MIKHAILICHENKO, A.S. - BARBITOFF, Y.A. - ZHOURAVLEVA, G.A. Processing of Fluorescent Proteins May Prevent Detection of Prion Particles in [PSI⁺] Cells. In BIOLOGY-BASEL. DEC 2022, vol. 11, no. 12. Dostupné na: https://doi.org/10.3390/biology11121688, Registrované v: WOS

3. [1.2] PERRUCA-FONCILLAS, Raquel - DAVIDSSON, Johan - CARLQUIST, Magnus - GORWA-GRAUSLUND, Marie F. Assessment of fluorescent protein candidates for multi-color flow cytometry analysis of Saccharomyces cerevisiae. In Biotechnology Reports, 2022-06-01, 34, pp. Dostupné na: https://doi.org/10.1016/j.btre.2022.e00735, Registrované v: SCOPUS

ADCA219 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin degrading glycoside hydrolases of family 28: sequence-structural features, specificities and evolution. In Protein Engineering Design & Selection, 2001, vol. 14, p. 615-631. ISSN 1741-0126. Dostupné na: https://doi.org/10.1093/protein/14.9.615

Citácie:

1. [1.1] GERBRACHT, J.V. - HARDING, T. - SIMPSON, A.G.B. - ROGER, A.J. - HESS, S. Comparative transcriptomics reveals the molecular toolkit used by an algivorous protist for cell wall perforation. In CURRENT BIOLOGY. ISSN 0960-9822, AUG 8 2022, vol. 32, no. 15, p. 3374-+. Dostupné na: https://doi.org/10.1016/j.cub.2022.05.049, Registrované v: WOS

2. [1.1] KIRSCH, R. - OKAMURA, Y. - HAEGER, W. - VOGEL, H. - KUNERT, G. - PAUCHET, Y. Metabolic novelty originating from horizontal gene transfer is essential for leaf beetle survival. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 26 2022, vol. 119, no. 40. Dostupné na: https://doi.org/10.1073/pnas.2205857119, Registrované v: WOS

3. [1.1] OHASHI, T. - SARI, N. - MISAKI, R. - FUJIYAMA, K. Biochemical characterization

of Arabidopsis clade F polygalacturonase shows a substrate preference toward oligogalacturonic acids. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, JAN 2022, vol. 133, no. 1, p. 1-7. Dostupné na: https://doi.org/10.1016/j.jbiosc.2021.08.007, Registrované v: WOS
4. [1.1] WANG, F.F. - SUN, X. - LIU, B.H. - KONG, F.J. - PAN, X.W. - ZHANG, H.Y. A polygalacturonase gene PG031 regulates seed coat permeability with a pleiotropic effect on seed weight in soybean. In THEORETICAL AND APPLIED GENETICS. ISSN 0040-5752, MAY 2022, vol. 135, no. 5, p. 1603-1618. Dostupné na: https://doi.org/10.1007/s00122-022-04057-4, Registrované v: WOS

ADCA220 MARKOVIČ, Oskar - JANEČEK, Štefan. Pectin methylesterases: sequence-structural features and phylogenetic relationships. In Carbohydrate Research, 2004, vol. 339, p. 2281-2295. (2003: 1.533 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2004.06.023

Citácie:
1. [1.1] GE, Weina - CHEN, Huilong - ZHANG, Yingchao - FENG, Shuyan - WANG, Shuailei - SHANG, Qian - WU, Meng - LI, Ziqi - ZHANG, Lan - GUO, He - JIN, Yongchao - WANG, Xiyin. Integrative genomics analysis of the ever-shrinking pectin methylesterase (PME) gene family in foxtail millet (Setaria italica). In FUNCTIONAL PLANT BIOLOGY, 2022, vol. 49, no. 10, pp. 874-886. ISSN 1445-4408. Dostupné na: https://doi.org/10.1071/FP21319, Registrované v: WOS
2. [1.1] KUMAR, Rajender - KUMAR, Sanjiv - BULONE, Vincent - SRIVASTAVA, Vaibhav. Biochemical characterization and molecular insights into substrate recognition of pectin methylesterase from Phytophthora infestans. In COMPUTATIONAL AND STRUCTURAL BIOTECHNOLOGY JOURNAL, 2022, vol. 20, no., pp. 6023-6032. ISSN 2001-0370. Dostupné na: https://doi.org/10.1016/j.csbj.2022.11.003, Registrované v: WOS
3. [1.1] SUN, Jinhao - TIAN, Zhen - LI, Xiaoxu - LI, Shaopeng - LI, Zhiyuan - WANG, Jinling - HU, Zongyu - CHEN, Haiqing - GUO, Cun - XIE, Minmin - XU, Ruyan. Systematic analysis of the pectin methylesterase gene family in Nicotiana tabacum and reveal their multiple roles in plant development and abiotic stresses. In FRONTIERS IN PLANT SCIENCE, 2022, vol. 13, no., pp. ISSN 1664-462X. Dostupné na: https://doi.org/10.3389/fpls.2022.998841, Registrované v: WOS
4. [1.1] WANG, Yueteng - ZHANG, Derong - HUANG, Lifen - ZHANG, Zelan - GAO, Jiaxing - LIU, Wei - HE, Gan - GUO, Xiaoqiang - CHANG, Shan - HU, Jianping. Research Progress of Pectin Methylesterase and its Inhibitors. In CURRENT PROTEIN & PEPTIDE SCIENCE, 2022, vol. 23, no. 10, pp. 684-696. ISSN 1389-2037. Dostupné na: https://doi.org/10.2174/1389203723666220919092428, Registrované v: WOS
5. [1.2] KIM, Ho Bang - OH, Chang Jae - KIM, Nam Hoon - CHOI, Cheol Woo - KIM, Minju - PARK, Sukman - JIN, Seong Beom - YUN, Su Hyun - SONG, Kwan Jeong. Genome-wide identification and expression profiling of the pectin methylesterase gene family in Citrus sinensis (L.) Osbeck. In Journal of Plant Biotechnology, 2022-12-31, 49, 4, pp. 271-291. ISSN 12292818. Dostupné na: https://doi.org/10.5010/JPB.2022.49.4.271, Registrované v: SCOPUS

ADCA221 MARTINEZ, L.F. - BISHOP, A.C - PARKES, L. - DEL SOL, R. - SALERNO, P. - ŠEVČÍKOVÁ, Beatrica - MAZURÁKOVÁ, V. - KORMANEC, Ján - DYSON, P. Osmoregulation in Streptomyces coelicolor: modulation of SigB activity by OsaC. In Molecular Microbiology, 2009, vol. 71, p. 1250-1262. (2008: 5.213 - IF, Q1 - JCR, 3.974 - SJR, Q1 - SJR). ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/j.1365-2958.2009.06599.x

Citácie:
1. [1.1] OTANI, Hiroshi - UDWARY, Daniel W. - MOUNCEY, Nigel J. Comparative and pangenomic analysis of the genus Streptomyces. In SCIENTIFIC REPORTS, 2022, vol. 12, no. 1, pp. ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-022-21731-1, Registrované v: WOS
2. [1.1] SANCHEZ DE LA NIETA, Ricardo - SANTAMARIA, Ramon - DIAZ, Margarita. Two-Component Systems of Streptomyces coelicolor: An Intricate Network to Be Unraveled. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232315085, Registrované v: WOS
3. [1.1] ZHENG, Xiu-hong - YE, Rui-fang - DING, Qi-hang - HU, Feng-xian - ZHANG, Hong-zhou - LAI, Shen. Simultaneous improvement of lincomycin A production and reduction of lincomycin B levels in Streptomyces lincolnensis using a combined medium optimization approach. In ANNALS OF MICROBIOLOGY, 2022, vol. 72, no. 1, pp. ISSN 1590-4261. Dostupné na: https://doi.org/10.1186/s13213-022-01672-w, Registrované v: WOS

ADCA222 MARTINOTTI, S. - BUČEKOVÁ, Marcela - MAJTÁN, Juraj - RANZATO, E. Honey: an effective regenerative medicine product in wound management. In Current Medicinal Chemistry, 2019, vol. 26, p. 5230-5240. (2018: 3.894 - IF, Q1 - JCR, 0.918 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0929-8673. Dostupné na: https://doi.org/10.2174/0929867325666180510141824

Citácie:
1. [1.1] BALIGA, M.S. - RAO, S. - HEGDE, S.K. - RAO, P. - SIMON, P. - GEORGE, T. - VENKATESH, P. - BALIGA-RAO, M.P. - THILAKCHAND, K.R. Usefulness of Honey as an Adjunct in the Radiation Treatment for Head and Neck Cancer: Emphasis on Pharmacological and Mechanism/s of Actions. In ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY. ISSN 1871-5206, 2022, vol. 22, no. 1, p. 20-29., Registrované v: WOS
2. [1.1] MONIRUZZAMAN, M. - KHAN, A.R. - HAQ, M.A. - NAZNIN, R.A. - HAQUE, M. Pediatric First-Degree Burn Management With Honey and 1% Silver Sulfadiazine (Ag-SD): Comparison and Contrast. In CUREUS JOURNAL OF MEDICAL SCIENCE. DEC 22 2022, vol. 14, no. 12., Registrované v: WOS
3. [1.1] ROBERTS, A.E.L. - XANTHE, C. - HOPKINS, A.L. - BODGER, O. - LEWIS, P. - MAHENTHIRALINGAM, E. - DUCKERS, J. - JENKINS, R.E. A pilot study investigating the effects of a manuka honey sinus rinse compared to a standard sinus rinse on sino-nasal outcome test scores in cystic fibrosis patients. In PILOT AND FEASIBILITY STUDIES. SEP 24 2022, vol. 8, no. 1., Registrované v: WOS
4. [1.1] SANAULLAH, I. - KHAN, H.N. - SALEHA, M. - IMRAN, M. - RAZA, M.A. - SAJJAD, A. - SABRI, A.N. - NASEEM, S. - RIAZ, S. Free radical scavenging and antimicrobial activities of MW assisted sol-gel synthesized honey mediated zirconia. In JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. ISSN 0928-0707, AUG 2022, vol. 103, no. 2, p. 457-475., Registrované v: WOS

ADCA223 MAZUROVA, V. - ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - KORMANEC, Ján. Cascade of sigma factors in streptomycetes: identification of a new extracytoplasmic function sigma factor sigmaJ that is under the control of the stress-response sigma factor sigmaH in Streptomyces coelicolor A3(2). In Archives of Microbiology, 2006, vol. 186, p. 435-446. (2005: 2.135 - IF, Q3 - JCR, 1.265 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-006-0158-9

Citácie:
1. [1.1] CLARA, Lejeune - DAVID, Cornu - LAILA, Sago - VIRGINIE, Redeker - MARIE-JOELLE, Virolle. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232314792, Registrované v: WOS
2. [1.1] OTANI, Hiroshi - MOUNCEY, Nigel J. RIViT-seq enables systematic identification of regulons of transcriptional machineries. In NATURE COMMUNICATIONS, 2022, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1038/s41467-022-31191-w, Registrované v: WOS

ADCA224 MEDEMA, M.H. - KOTTMANN, R. - YILMAZ, P. - CUMMINGS, M. - BIGGINS, J.B. - KORMANEC, Ján. Minimum information about a biosynthetic gene cluster. In Nature Chemical Biology, 2015, vol. 11, p. 625-631. (2014: 12.996 - IF, Q1 - JCR, 7.184 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1552-4450. Dostupné na: https://doi.org/10.1038/nchembio.1890

Citácie:
1. [1.1] ALAM, K. - HAO, J.F. - ZHONG, L. - FAN, G.Q. - OUYANG, Q. - ISLAM, M.M. - ISLAM, S. - SUN, H.L. - ZHANG, Y.M. - LI, R.J. - LI, A.Y. Complete genome sequencing and in silico genome mining reveal the promising metabolic potential in Streptomyces strain CS-7. In FRONTIERS IN MICROBIOLOGY. OCT 5 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.939919, Registrované v: WOS
2. [1.1] ALAM, K. - MAZUMDER, A. - SIKDAR, S. - ZHAO, Y.M. - HAO, J.F. - SONG, C.Y. - WANG, Y.Y. - SARKAR, R. - ISLAM, S. - ZHANG, Y.M. - LI, A.Y. Streptomyces: The biofactory of secondary metabolites. In FRONTIERS IN MICROBIOLOGY. SEP 29 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.968053, Registrované v: WOS
3. [1.1] ALAM, K. - ZHAO, Y.M. - LU, X.F. - GONG, K. - ZHONG, L. - HAO, J.F. - ISLAM, M.M. - ISLAM, S. - LI, G. - ZHANG, Y.M. - LI, R.J. - LI, A.Y. Isolation, complete genome sequencing and in silico genome mining of Burkholderia for secondary metabolites. In BMC MICROBIOLOGY. ISSN 1471-2180, DEC 30 2022, vol. 22, no. 1. Dostupné na: https://doi.org/10.1186/s12866-022-02692-x, Registrované v: WOS
4. [1.1] ALLOUL, A. - VAN KAMPEN, W. - CERRUTI, M. - WITTOUCK, S. - PABST, M. - WEISSBRODT, D.G. Exploring the role of antimicrobials in the selective growth of purple phototrophic bacteria through genome mining and agar spot assays. In LETTERS IN APPLIED MICROBIOLOGY. ISSN 0266-8254, NOV 2022, vol. 75, no. 5, p. 1275-1285. Dostupné na: https://doi.org/10.1111/lam.13795, Registrované v: WOS
5. [1.1] ALUISIO, G.V. - SPITALE, A. - BONIFACIO, L. - PRIVITERA, G.F. - STIVALA, A. - STEFANI, S. - SANTAGATI, M. Streptococcus salivarius 24SMBc Genome Analysis Reveals New Biosynthetic Gene Clusters Involved in Antimicrobial Effects on Streptococcus pneumoniae and Streptococcus pyogenes. In MICROORGANISMS. OCT

2022, vol. 10, no. 10. Dostupné na: https://doi.org/10.3390/microorganisms10102042, Registrované v: WOS
6. [1.1] BIGGS, M.B. - CRAIG, K. - GACHANGO, E. - INGHAM, D. - TWIZEYIMANA, M. Genomics- and Machine Learning-Accelerated Discovery of Biocontrol Bacteria. In PHYTOBIOMES JOURNAL. 2021, vol. 5, no. 4, p. 452-463. Dostupné na: https://doi.org/10.1094/PBIOMES-01-21-0003-R, Registrované v: WOS
7. [1.1] BOOTH, T.J. - BOZHüYüK, K.A.J. - LISTON, J.D. - BATEY, S.F.D. - LACEY, E. - WILKINSON, B. Bifurcation drives the evolution of assembly-line biosynthesis. In NATURE COMMUNICATIONS. JUN 17 2022, vol. 13, no. 1. Dostupné na: https://doi.org/10.1038/s41467-022-30950-z, Registrované v: WOS
8. [1.1] BRINKMANN, S. - KURZ, M. - PATRAS, M.A. - HARTWIG, C. - MARNER, M. - LEIS, B. - BILLION, A. - KLEINER, Y. - BAUER, A. - TOTI, L. - PöVERLEIN, C. - HAMMANN, P.E. - VILCINSKAS, A. - GLAESER, J. - SPOHN, M. - SCHäBERLE, T.F. Genomic and Chemical Decryption of the Bacteroidetes Phylum for Its Potential to Biosynthesize Natural Products. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, JUN 2022, vol. 10, no. 3. Dostupné na: https://doi.org/10.1128/spectrum.02479-21, Registrované v: WOS
9. [1.1] CAFFREY, P. - HOGAN, M. - SONG, Y.H. New Glycosylated Polyene Macrolides: Refining the Ore from Genome Mining. In ANTIBIOTICS-BASEL. ISSN 2079-6382, MAR 2022, vol. 11, no. 3. Dostupné na: https://doi.org/10.3390/antibiotics11030334, Registrované v: WOS
10. [1.1] CERNAVA, T. - RYBAKOVA, D. - BUSCOT, F. - CLAVEL, T. - MCHARDY, A.C. - MEYER, F. - MEYER, F. - OVERMANN, J. - STECHER, B. - SESSITSCH, A. - SCHLOTER, M. - BERG, G. Metadata harmonization-Standards are the key for a better usage of omics data for integrative microbiome analysis. In ENVIRONMENTAL MICROBIOME. JUN 24 2022, vol. 17, no. 1. Dostupné na: https://doi.org/10.1186/s40793-022-00425-1, Registrované v: WOS
11. [1.1] CHAGAS, L.D. - TEIXEIRA, G.M. - MOSELA, M. - DE OLIVEIRA, J.P. - NICOLETTO, M.L.A. - BERTê, R. - DA SILVA, D.V. - SANCHES, D.S. - BRANCHER, J.D. - PADUA, U.P. - DE OLIVEIRA, A.G. Draft Genome Sequence of Brevibacillus brevis LABIM17, a Biotechnologically Important Antimicrobial-Producing Bacterium. In MICROBIOLOGY RESOURCE ANNOUNCEMENTS. ISSN 2576-098X, MAR 2022, vol. 11, no. 3. Dostupné na: https://doi.org/10.1128/mra.00006-22, Registrované v: WOS
12. [1.1] CHAKRABORTY, P. Gene cluster from plant to microbes: Their role in genome architecture, organism';s development, specialized metabolism and drug discovery. In BIOCHIMIE. ISSN 0300-9084, FEB 2022, vol. 193, p. 1-15. Dostupné na: https://doi.org/10.1016/j.biochi.2021.12.001, Registrované v: WOS
13. [1.1] CHEN, Y.P. - WU, T. - TIAN, W.H. - ILYUKHIN, F. - HYDE, K.D. - MAHARACHCHIKUMBURA, S.S.N. Comparative genomics provides new insights into the evolution of Colletotrichum. In MYCOSPHERE. ISSN 2077-7000, 2022, vol. 13, no. 2. Dostupné na: https://doi.org/10.5943/mycosphere/si/1f/5, Registrované v: WOS
14. [1.1] CONNEELY, L.J. - BERKOWITZ, O. - LEWSEY, M.G. Emerging trends in genomic and epigenomic regulation of plant specialised metabolism. In PHYTOCHEMISTRY. ISSN 0031-9422, NOV 2022, vol. 203. Dostupné na: https://doi.org/10.1016/j.phytochem.2022.113427, Registrované v: WOS
15. [1.1] ESCUDEIRO, P. - HENRY, C.S. - DIAS, R.P.M. Functional characterization of prokaryotic dark matter: the road so far and what lies ahead. In CURRENT RESEARCH IN MICROBIAL SCIENCES. ISSN 2666-5174, 2022, vol. 3. Dostupné na: https://doi.org/10.1016/j.crmicr.2022.100159, Registrované v: WOS
16. [1.1] FERNáNDEZ-LóPEZ, M. - SáNCHEZ-REYES, A. - BARCELOS, C. - SIDóN-CESEñA, K. - LEITE, R.B. - LAGO-LESTóN, A. Deep-Sea Sediments from the Southern Gulf of Mexico Harbor a Wide Diversity of PKS I Genes. In ANTIBIOTICS-BASEL. ISSN 2079-6382, JUL 2022, vol. 11, no. 7. Dostupné na: https://doi.org/10.3390/antibiotics11070887, Registrované v: WOS
17. [1.1] FEUERMANN, M. - BOUTET, E. - MORGAT, A. - AXELSEN, K.B. - BANSAL, P. - BOLLEMAN, J. - DE CASTRO, E. - COUDERT, E. - GASTEIGER, E. - GéHANT, S. - LIEBERHERR, D. - LOMBARDOT, T. - NETO, T.B. - PEDRUZZI, I. - POUX, S. - POZZATO, M. - REDASCHI, N. - BRIDGE, A. Diverse Taxonomies for Diverse Chemistries: Enhanced Representation of Natural Product Metabolism in UniProtKB. In METABOLITES. JAN 2021, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/metabo11010048, Registrované v: WOS
18. [1.1] FIERRO, F. - VACA, I. - CASTILLO, N.I. - GARCíA-RICO, R.O. - CHáVEZ, R. Penicillium chrysogenum, a Vintage Model with a Cutting-Edge Profile in Biotechnology. In MICROORGANISMS. MAR 2022, vol. 10, no. 3. Dostupné na: https://doi.org/10.3390/microorganisms10030573, Registrované v: WOS
19. [1.1] FOBOFOU, S.A. - SAVIDGE, T. Microbial metabolites: cause or consequence in gastrointestinal disease?. In AMERICAN JOURNAL OF PHYSIOLOGY-GASTROINTESTINAL AND LIVER PHYSIOLOGY. ISSN 0193-1857, JUN 2022, vol. 322, no. 6, p. G535-G552.

Dostupné na: https://doi.org/10.1152/ajpgi.00008.2022, Registrované v: WOS
20. [1.1] FRANCO, M.E.E. - WISECAVER, J.H. - ARNOLD, A.E. - JU, Y.M. - SLOT, J.C. - AHRENDT, S. - MOORE, L.P. - EASTMAN, K.E. - SCOTT, K. - KONKEL, Z. - MONDO, S.J. - KUO, A. - HAYES, R.D. - HARIDAS, S. - ANDREOPOULOS, B. - RILEY, R. - LABUTTI, K. - PANGILINAN, J. - LIPZEN, A. - AMIREBRAHIMI, M. - YAN, J.Y. - ADAM, C. - KEYMANESH, K. - NG, V. - LOUIE, K. - NORTHEN, T. - DRULA, E. - HENRISSAT, B. - HSIEH, H.M. - YOUENS-CLARK, K. - LUTZONI, F. - MIADLIKOWSKA, J. - EASTWOOD, D.C. - HAMELIN, R.C. - GRIGORIEV, I.V. - U';REN, J.M. Ecological generalism drives hyperdiversity of secondary metabolite gene clusters in xylarialean endophytes. In NEW PHYTOLOGIST. ISSN 0028-646X, FEB 2022, vol. 233, no. 3, p. 1317-1330. Dostupné na: https://doi.org/10.1111/nph.17873, Registrované v: WOS
21. [1.1] GAO, Y.L. - YU, C. - LI, L. Heterologous expression of a natural product biosynthetic gene cluster from Cordyceps militaris. In JOURNAL OF ANTIBIOTICS. ISSN 0021-8820, JAN 2022, vol. 75, no. 1, p. 16-20. Dostupné na: https://doi.org/10.1038/s41429-021-00478-3, Registrované v: WOS
22. [1.1] GHARECHAHI, J. - SARIKHAN, S. - HAN, J.L. - DING, X.Z. - SALEKDEH, G.H. Functional and phylogenetic analyses of camel rumen microbiota associated with different lignocellulosic substrates. In NPJ BIOFILMS AND MICROBIOMES. JUN 8 2022, vol. 8, no. 1. Dostupné na: https://doi.org/10.1038/s41522-022-00309-9, Registrované v: WOS
23. [1.1] GUO, X.X. - CHEN, F.S. - LIU, J. - SHAO, Y.C. - WANG, X.H. - ZHOU, Y.X. Genome Mining and Analysis of PKS Genes in Eurotium cristatum E1 Isolated from Fuzhuan Brick Tea. In JOURNAL OF FUNGI. FEB 2022, vol. 8, no. 2. Dostupné na: https://doi.org/10.3390/jof8020193, Registrované v: WOS
24. [1.1] GUPTA, V.K. - BAKSHI, U. - CHANG, D.N. - LEE, A.R. - DAVIS, J.M. - CHANDRASEKARAN, S. - JIN, Y.S. - FREEMAN, M.F. - SUNG, J.Y. TaxiBGC: a Taxonomy-Guided Approach for Profiling Experimentally Characterized Microbial Biosynthetic Gene Clusters and Secondary Metabolite Production Potential in Metagenomes. In MSYSTEMS. ISSN 2379-5077, DEC 2022, vol. 7, no. 6. Dostupné na: https://doi.org/10.1128/msystems.00925-22, Registrované v: WOS
25. [1.1] HE, Z.Y. - CHEN, Y. - WANG, Y.C. - LIU, K.Y. - XU, Q. - LI, Y. - CHEN, N.S. Comparative Analysis of Pseudo-nitzschia Chloroplast Genomes Revealed Extensive Inverted Region Variation and Pseudo-nitzschia Speciation. In FRONTIERS IN MARINE SCIENCE. MAY 18 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fmars.2022.784579, Registrované v: WOS
26. [1.1] HIGHT, S.K. - CLARK, T.N. - KURITA, K.L. - MCMILLAN, E.A. - BRAY, W. - SHAIKH, A.F. - KHADILKAR, A. - HAECKL, F.P.J. - CARNEVALE-NETO, F. - LA, S. - LOHITH, A. - VADEN, R.M. - LEE, J. - WEI, S. - LOKEY, R.S. - WHITE, M.A. - LININGTON, R.G. - MACMILLAN, J.B. High-throughput functional annotation of natural products by integrated activity profiling. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, NOV 28 2022, vol. 119, no. 49. Dostupné na: https://doi.org/10.1073/pnas.2208458119, Registrované v: WOS
27. [1.1] KHAN, M.M. - SIDDIQUE, M. - YASIR, M. - QURESHI, M.I. - KHAN, N. - SAFDAR, M.Z. The Significance of Digital Marketing in Shaping Ecotourism Behaviour through Destination Image. In SUSTAINABILITY. JUN 2022, vol. 14, no. 12. Dostupné na: https://doi.org/10.3390/su14127395, Registrované v: WOS
28. [1.1] KRAUSS, S. - ZIPPERER, A. - WIRTZ, S. - SAUR, J. - KONNERTH, M.C. - HEILBRONNER, S. - SALAZAR, B.O.T. - GROND, S. - KRISMER, B. - PESCHEL, A. Secretion of and Self-Resistance to the Novel Fibupeptide Antimicrobial Lugdunin by Distinct ABC Transporters in Staphylococcus lugdunensis. In ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. ISSN 0066-4804, JAN 2021, vol. 65, no. 1. Dostupné na: https://doi.org/10.1128/AAC.01734-20, Registrované v: WOS
29. [1.1] KUMAR, R. - SAINI, D.K. - KUMAR, M. - PRIYANKA, V. - AKHATAR, J. - KAUSHIK, D. - SHARMA, A. - DHANDA, P.S. - KAUSHIK, P. Revealing the Genetic Architecture of Yield-Related and Quality Traits in Indian Mustard [Brassica juncea (L.) Czern. and Coss.] Using Meta-QTL Analysis. In AGRONOMY-BASEL. OCT 2022, vol. 12, no. 10. Dostupné na: https://doi.org/10.3390/agronomy12102442, Registrované v: WOS
30. [1.1] LI, G. - LIN, P. - WANG, K. - GU, C.C. - KUSARI, S. Artificial intelligence-guided discovery of anticancer lead compounds from plants and associated microorganisms. In TRENDS IN CANCER. ISSN 2405-8025, JAN 2022, vol. 8, no. 1, p. 65-80. Dostupné na: https://doi.org/10.1016/j.trecan.2021.10.002, Registrované v: WOS
31. [1.1] LI, M.H. - MENG, J.X. - WANG, W. - HE, M. - ZHAO, Z.Y. - MA, N. - LV, Q.B. - QIN, Y.F. - ZHAO, Q. - NI, H.B. - ZHANG, X.X. Dynamic description of temporal changes of gut microbiota in broilers. In POULTRY SCIENCE. ISSN 0032-5791, SEP 2022, vol. 101, no. 9.

Dostupné na: https://doi.org/10.1016/j.psj.2022.102037, Registrované v: WOS
32. [1.1] LIMA, S.T. - FALLON, T.R. - CORDOZA, J.L. - CHEKAN, J.R. - DELBAJE, E. - HOPIAVUORI, A.R. - ALVARENGA, D.O. - WOOD, S.M. - LUHAVAYA, H. - BAUMGARTNER, J.T. - DöRR, F.A. - ETCHEGARAY, A. - PINTO, E. - MCKINNIE, S.M.K. - FIORE, M.F. - MOORE, B.S. Biosynthesis of Guanitoxin Enables Global Environmental Detection in Freshwater Cyanobacteria. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, JUN 1 2022, vol. 144, no. 21, p. 9372-9379. Dostupné na: https://doi.org/10.1021/jacs.2c01424, Registrované v: WOS
33. [1.1] LINARDI, D. - SHE, W.Y. - ZHANG, Q. - YU, Y. - QIAN, P.Y. - LAM, H. Proteomining-Based Elucidation of Natural Product Biosynthetic Pathways in Streptomyces. In FRONTIERS IN MICROBIOLOGY. JUL 11 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.913756, Registrované v: WOS
34. [1.1] LIU, H. - MULLAN, D. - ZHAO, S.C. - ZHANG, Y. - YE, J. - WANG, Y. - ZHANG, A.M. - ZHAO, X.Q. - LIU, G.N. - ZHANG, C. - CHAN, K. - LU, Z.Y. - YAN, G.J. Genomic regions controlling yield-related traits in spring wheat: a mini review and a case study for rainfed environments in Australia and China. In GENOMICS. ISSN 0888-7543, MAR 2022, vol. 114, no. 2. Dostupné na: https://doi.org/10.1016/j.ygeno.2022.110268, Registrované v: WOS
35. [1.1] MAITHANI, D. - SHARMA, A. - GANGOLA, S. - CHAUDHARY, P. - BHATT, P. Insights into applications and strategies for discovery of microbial bioactive metabolites. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, AUG 2022, vol. 261. Dostupné na: https://doi.org/10.1016/j.micres.2022.127053, Registrované v: WOS
36. [1.1] MAITI, P.K. - MANDAL, S. Comprehensive genome analysis of Lentzea reveals repertoire of polymer-degrading enzymes and bioactive compounds with clinical relevance. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 19 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-12427-7, Registrované v: WOS
37. [1.1] MALINGA, N.A. - NZUZA, N. - PADAYACHEE, T. - SYED, P.R. - KARPOORMATH, R. - GRONT, D. - NELSON, D.R. - SYED, K. An Unprecedented Number of Cytochrome P450s Are Involved in Secondary Metabolism in Salinispora Species. In MICROORGANISMS. MAY 2022, vol. 10, no. 5. Dostupné na: https://doi.org/10.3390/microorganisms10050871, Registrované v: WOS
38. [1.1] MCFARLAND, A.G. - KENNEDY, N.W. - MILLS, C.E. - TULLMAN-ERCEK, D. - HUTTENHOWER, C. - HARTMANN, E.M. Density-based binning of gene clusters to infer function or evolutionary history using GeneGrouper. In BIOINFORMATICS. ISSN 1367-4803, FEB 1 2022, vol. 38, no. 3, p. 612-620. Dostupné na: https://doi.org/10.1093/bioinformatics/btab752, Registrované v: WOS
39. [1.1] OBERHOFER, M. - MALFENT, F. - ZEHL, M. - URBAN, E. - WACKERLIG, J. - REZNICEK, G. - VIGNOLLE, G.A. - RüCKERT, C. - BUSCHE, T. - WIBBERG, D. - ZOTCHEV, S.B. Biosynthetic Potential of the Endophytic Fungus Helotiales sp. BL73 Revealed via Compound Identification and Genome Mining. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, MAR 2022, vol. 88, no. 6. Dostupné na: https://doi.org/10.1128/aem.02510-21, Registrované v: WOS
40. [1.1] OKOYE, C.O. - DONG, K. - WANG, Y.L. - GAO, L. - LI, X. - WU, Y.F. - JIANG, J.X. Comparative genomics reveals the organic acid biosynthesis metabolic pathways among five lactic acid bacterial species isolated from fermented vegetables. In NEW BIOTECHNOLOGY. ISSN 1871-6784, SEP 25 2022, vol. 70, p. 73-83. Dostupné na: https://doi.org/10.1016/j.nbt.2022.05.001, Registrované v: WOS
41. [1.1] PATTESON, J.B. - FORTINEZ, C.M. - PUTZ, A.T. - RODRIGUEZ-RIVAS, J. - BRYANT, L.H. - ADHIKARI, K. - WEIGT, M. - SCHMEING, T.M. - LI, B. Structure and Function of a Dehydrating Condensation Domain in Nonribosomal Peptide Biosynthesis. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, JUL 27 2022, vol. 144, no. 31, p. 14057-14070. Dostupné na: https://doi.org/10.1021/jacs.1c13404, Registrované v: WOS
42. [1.1] RAJPUT, A. - TSUNEMOTO, H. - SASTRY, A.V. - SZUBIN, R. - RYCHEL, K. - SUGIE, J. - POGLIANO, J. - PALSSON, B.O. Machine learning from Pseudomonas aeruginosa transcriptomes identifies independently modulated sets of genes associated with known transcriptional regulators. In NUCLEIC ACIDS RESEARCH. ISSN 0305-1048, APR 22 2022, vol. 50, no. 7, p. 3658-3672. Dostupné na: https://doi.org/10.1093/nar/gkac187, Registrované v: WOS
43. [1.1] RINALDI, M.A. - FERRAZ, C.A. - SCRUTTON, N.S. Alternative metabolic pathways and strategies to high-titre terpenoid production in Escherichia coli. In NATURAL PRODUCT REPORTS. ISSN 0265-0568, JAN 26 2022, vol. 39, no. 1, p. 90-118. Dostupné na: https://doi.org/10.1039/d1np00025j, Registrované v: WOS
44. [1.1] RIVERA-CHAVEZ, J. - CEAPA, C.D. - FIGUEROA, M. Biological Dark Matter Exploration using Data Mining for the Discovery of Antimicrobial Natural Products

[#]. In PLANTA MEDICA. ISSN 0032-0943, AUG 2022, vol. 88, no. 09/10, p. 702-720. Dostupné na: https://doi.org/10.1055/a-1795-0562, Registrované v: WOS
45. [1.1] SAATI-SANTAMARíA, Z. - SELEM-MOJICA, N. - PERAL-ARANEGA, E. - RIVAS, R. - GARCíA-FRAILE, P. Unveiling the genomic potential of Pseudomonas type strains for discovering new natural products. In MICROBIAL GENOMICS. ISSN 2057-5858, FEB 2022, vol. 8, no. 2. Dostupné na: https://doi.org/10.1099/mgen.0.000758, Registrované v: WOS
46. [1.1] SAINI, D.K. - SRIVAST, P. - PAL, N. - GUPTA, P.K. Meta-QTLs, ortho-meta-QTLs and candidate genes for grain yield and associated traits in wheat (Triticum aestivum L.). In THEORETICAL AND APPLIED GENETICS. ISSN 0040-5752, MAR 2022, vol. 135, no. 3, p. 1049-1081. Dostupné na: https://doi.org/10.1007/s00122-021-04018-3, Registrované v: WOS
47. [1.1] SáNCHEZ-SUáREZ, J. - DíAZ, L. - COY-BARRERA, E. - VILLAMIL, L. Specialized Metabolism of Gordonia Genus: An Integrated Survey on Chemodiversity Combined with a Comparative Genomics-Based Analysis. In BIOTECH. NOV 21 2022, vol. 11, no. 4. Dostupné na: https://doi.org/10.3390/biotech11040053, Registrované v: WOS
48. [1.1] TAREEN, S. - SCHUPP, P.J. - IQBAL, N. - WINK, J. Exploring the Antibiotic Production Potential of Heterotrophic Bacterial Communities Isolated from the Marine Sponges Crateromorpha meyeri, Pseudaxinella reticulata, Farrea similaris, and Caulophacus arcticus through Synergistic Metabolomic and Genomic Analyses. In MARINE DRUGS. JUL 2022, vol. 20, no. 7. Dostupné na: https://doi.org/10.3390/md20070463, Registrované v: WOS
49. [1.1] TIZABI, D. - BACHVAROFF, T. - HILL, R.T. Comparative analysis of assembly algorithms to optimize biosynthetic gene cluster identification in novel marine actinomycete genomes. In FRONTIERS IN MARINE SCIENCE. JUL 29 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fmars.2022.914197, Registrované v: WOS
50. [1.1] TSALGATIDOU, P.C. - THOMLOUDI, E.E. - BAIRA, E. - PAPADIMITRIOU, K. - SKAGIA, A. - VENIERAKI, A. - KATINAKIS, P. Integrated Genomic and Metabolomic Analysis Illuminates Key Secreted Metabolites Produced by the Novel Endophyte Bacillus halotolerans Cal.l.30 Involved in Diverse Biological Control Activities. In MICROORGANISMS. FEB 2022, vol. 10, no. 2. Dostupné na: https://doi.org/10.3390/microorganisms10020399, Registrované v: WOS
51. [1.1] ULRICH, S. - LANG, K. - NIESSEN, L. - BASCHIEN, C. - KOSICKI, R. - TWARUZEK, M. - STRAUBINGER, R.K. - EBEL, F. The Evolution of the Satratoxin and Atranone Gene Clusters of Stachybotrys chartarum. In JOURNAL OF FUNGI. APR 2022, vol. 8, no. 4. Dostupné na: https://doi.org/10.3390/jof8040340, Registrované v: WOS
52. [1.1] WANG, G.H. - LI, Y.J. - LIU, J.F. - CHEN, B. - SU, H.F. - LIANG, J.Y. - HUANG, W. - YU, K.F. Comparative Genomics Reveal the Animal-Associated Features of the Acanthopleuribacteraceae Bacteria, and Description of Sulfidibacter corallicola gen. nov., sp., nov.. In FRONTIERS IN MICROBIOLOGY. JAN 31 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.778535, Registrované v: WOS
53. [1.1] XU, S.X. - DING, Y.L. - SUN, J.T. - ZHANG, Z.Q. - WU, Z.Y. - YANG, T.Z. - SHEN, F. - XUE, G. A high-quality genome assembly of Jasminum sambac provides insight into floral trait formation and Oleaceae genome evolution. In MOLECULAR ECOLOGY RESOURCES. ISSN 1755-098X, FEB 2022, vol. 22, no. 2, p. 724-739. Dostupné na: https://doi.org/10.1111/1755-0998.13497, Registrované v: WOS
54. [1.1] YUSHCHUK, O. - ZHUKROVSKA, K. - BERINI, F. - FEDORENKO, V. - MARINELLI, F. Genetics Behind the Glycosylation Patterns in the Biosynthesis of Dalbaheptides. In FRONTIERS IN CHEMISTRY. ISSN 2296-2646, MAR 24 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fchem.2022.858708, Registrované v: WOS
55. [1.2] BAKER, Jonathon L. - EDLUND, Anna. Identification of Oral Bacterial Biosynthetic Gene Clusters Associated with Caries. In Methods in Molecular Biology, 2021-01-01, 2327, pp. 161-189. ISSN 10643745. Dostupné na: https://doi.org/10.1007/978-1-0716-1518-8_10, Registrované v: SCOPUS
56. [1.2] CHOI, Eun Ha - PARK, Si Hyung - KWON, Hyung Jin. Genetic localization of epicoccamide biosynthetic gene cluster in Epicoccum nigrum KACC 40642. In Journal of Applied Biological Chemistry, 2022-01-01, 65, 3, pp. 159-166. ISSN 19760442. Dostupné na: https://doi.org/10.3839/jabc.2022.021, Registrované v: SCOPUS
57. [1.2] DILSHAD, Rimsha - JAMIL, Nazia - BATOOL, Rida. Biosynthetic Gene Clusters in Bacteria: A Review. In Proceedings of the Pakistan Academy of Sciences: Part B, 2022-09-28, 58, 3, pp. 29-42. ISSN 25184261. Dostupné na: https://doi.org/10.53560/PPASB(58-3)665, Registrované v: SCOPUS
58. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na:

https://doi.org/10.1007/978-981-16-6132-7_11, Registrované v: SCOPUS
59. [1.2] HUO, Yingfang - JIANG, Qingru - ZHAO, Wenjing. Meta-analysis of metagenomics reveals the signatures of vaginal microbiome in preterm birth. In Medicine in Microecology, 2022-12-01, 14, pp. Dostupné na: https://doi.org/10.1016/j.medmic.2022.100065, Registrované v: SCOPUS
60. [1.2] IORIO, Marianna - DAVATGARBENAM, Sahar - SERINA, Stefania - CRISCENZO, Paolo - ZDOUC, Mitja M. - SIMONE, Matteo - MAFFIOLI, Sonia I. - EBRIGHT, Richard H. - DONADIO, Stefano - SOSIO, Margherita. Blocks in the pseudouridimycin pathway unlock hidden metabolites in the Streptomyces producer strain. In Scientific Reports, 2021-12-01, 11, 1, pp. Dostupné na: https://doi.org/10.1038/s41598-021-84833-2, Registrované v: SCOPUS
61. [1.2] KARTHIK, Loganathan - ARIVARASAN, Vishnu Kirthi - VIGNESH, Mahendran Ruckmani - ANITHA, Palakshi. CRISPR ERA: Current Applications and Future Perspectives on Actinobacteria. In Actinobacteria: Microbiology to Synthetic Biology, 2022-01-01, pp. 181-202. Dostupné na: https://doi.org/10.1007/978-981-16-5835-8_10, Registrované v: SCOPUS
62. [1.2] LI, Jiajia - DE VRIES, Ronald P. - PENG, Mao. Bioinformatics approaches for fungal biotechnology. In Encyclopedia of Mycology, 2021-06-01, pp. 536-554. Dostupné na: https://doi.org/10.1016/B978-0-12-819990-9.00012-3, Registrované v: SCOPUS
63. [1.2] MOSUNOVA, Olga - NAVARRO-MUÑOZ, Jorge C. - COLLEMARE, Jérôme. The biosynthesis of fungal secondary metabolites: From fundamentals to biotechnological applications. In Encyclopedia of Mycology, 2021-06-01, pp. 458-476. Dostupné na: https://doi.org/10.1016/B978-0-12-809633-8.21072-8, Registrované v: SCOPUS
64. [1.2] PARK, Jimin - YIM, Sung Sun - WANG, Harris H. High-Throughput Transcriptional Characterization of Regulatory Sequences from Bacterial Biosynthetic Gene Clusters. In ACS Synthetic Biology, 2021-08-20, 10, 8, pp. 1859-1873. Dostupné na: https://doi.org/10.1021/acssynbio.0c00639, Registrované v: SCOPUS
65. [1.2] SAHOO, Swayamprabha - MOHANTY, Jatindra Nath - BEHERA, Tapas Ranjan - LENKA, Rajesh Kumar - DAS, Saurjya Ranjan. Global concern of antimicrobial effectiveness and resistance combat strategies. In Journal of Medical Pharmaceutical and Allied Sciences, 2022-05-01, 11, 3, pp. 4827-4832. Dostupné na: https://doi.org/10.55522/jmpas.V11I3.1874, Registrované v: SCOPUS
66. [1.2] SHAWKY, Amal Mohamed - ABDALLAH, Omnia Mohamed - AMIN, Dina Hatem. Traditional Screening and Genome-Guided Screening of Natural Products from Actinobacteria. In Actinobacteria: Microbiology to Synthetic Biology, 2022-01-01, pp. 59-76. Dostupné na: https://doi.org/10.1007/978-981-16-5835-8_3, Registrované v: SCOPUS
67. [1.2] WILLIAMS, Katherine - DE MATTOS-SHIPLEY, Kate M.J. - WILLIS, Christine L. - BAILEY, Andrew M. In silico analyses of maleidride biosynthetic gene clusters. In Fungal Biology and Biotechnology, 2022-12-01, 9, 1, pp. Dostupné na: https://doi.org/10.1186/s40694-022-00132-z, Registrované v: SCOPUS
68. [1.2] XU, Peng - MODAVI, Cyrus - DEMAREE, Benjamin - TWIGG, Frederick - LIANG, Benjamin - SUN, Chen - ZHANG, Wenjun - ABATE, Adam R. Microfluidic automated plasmid library enrichment for biosynthetic gene cluster discovery. In Nucleic Acids Research, 2021-01-01, 48, 8, pp. ISSN 03051048. Dostupné na: https://doi.org/10.1093/NAR/GKAA131, Registrované v: SCOPUS

ADCA225 MEIER, S. - GOERKE, Ch. - WOLZ, Ch. - SEIDL, K. - HOMEROVÁ, Dagmar - SCHULTHESS, B. - KORMANEC, Ján - BERGER-BACHI, B. - BISCHOFF, M. SigB and SigB-dependent arlRS and yabJ-spoVG loci affect capsule formation in Staphylococcus aureus. In Infection and Immunity, 2007, vol. 75, no. 9, pp. 4562-4571. (2006: 4.004 - IF, Q1 - JCR, 2.315 - SJR, Q1 - SJR). ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/IAI.00392-07

Citácie:
1. [1.1] MENARD, Guillaume - SILARD, Chloe - SURIRAY, Marie - ROUILLON, Astrid - AUGAGNEUR, Yoann. Thirty Years of sRNA-Mediated Regulation in Staphylococcus aureus: From Initial Discoveries to In Vivo Biological Implications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 13, pp. Dostupné na: https://doi.org/10.3390/ijms23137346, Registrované v: WOS

ADCA226 MIHÁLIKOVÁ, Andrea - BALIOVÁ, Martina - JURSKÝ, František. Calcium dependent interaction of Calmodulin with the GlyT1 C-terminus. In Neurochemical Research, 2014, vol. 39, p. 2225-2233. (2013: 2.551 - IF, Q3 - JCR, 1.037 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents, WOS, SCOPUS). ISSN 0364-3190. Dostupné na: https://doi.org/10.1007/s11064-014-1424-x

Citácie:
1. [1.1] LU, K.M. - ZHAO, L.Y. - ZHANG, Y.H. - YANG, F. - ZHANG, H.W. - WANG, J. - LI, B. - JI, G.M. - YU, J.Q. - MA, H.X. Bupivacaine reduces GlyT1 expression by potentiating the p-AMPKα/BDNF signalling pathway in spinal astrocytes of rats. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 26 2022, vol. 12, no. 1. Dostupné na:

https://doi.org/10.1038/s41598-022-05478-3, Registrované v: WOS

ADCA227 MINÁRIK, P. - TOMASKOVA, N. - KOLLÁROVÁ, M - ANTALIK, M. Malate dehydrogenases - structure and function. In General Physiology and Biophysics, 2002, vol. 21, p. 257-265. (2001: 0.932 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] CHEN, Y.X. - LI, W. - ZENG, H. - ZHOU, G. - CAI, Q. Transcriptome Analysis Reveals the Mechanism of dill Seed Essential oil Against Sclerotinia sclerotiorum. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, AUG 2022, vol. 17, no. 8. Dostupné na: https://doi.org/10.1177/1934578X221119910, Registrované v: WOS
2. [1.1] CHETRI, P.B. - SHUKLA, R. - KHAN, J.M. - PADHI, A.K. - TRIPATHI, T. Unraveling the structural basis of urea-induced unfolding of Fasciola gigantica cytosolic malate dehydrogenase. In JOURNAL OF MOLECULAR LIQUIDS. ISSN 0167-7322, MAR 1 2022, vol. 349. Dostupné na: https://doi.org/10.1016/j.molliq.2021.118170, Registrované v: WOS
3. [1.1] EO, Y. - DUONG, M.T.H. - AHN, H.C. Structural Comparison of hMDH2 Complexed with Natural Substrates and Cofactors: The Importance of Phosphate Binding for Active Conformation and Catalysis. In BIOMOLECULES. SEP 2022, vol. 12, no. 9. Dostupné na: https://doi.org/10.3390/biom12091175, Registrované v: WOS
4. [1.1] FU, T.F. - LIU, Y.F. - WANG, J.M. Salmonella enteritidis and Listeria monocytogenes: inactivation effect and aerobic respiratory limitation of cold plasma treatment. In JOURNAL OF CONSUMER PROTECTION AND FOOD SAFETY. ISSN 1661-5751, SEP 2022, vol. 17, no. 3, p. 243-253. Dostupné na: https://doi.org/10.1007/s00003-022-01376-y, Registrované v: WOS
5. [1.1] GARG, S.S. - GUPTA, J. Polyol pathway and redox balance in diabetes. In PHARMACOLOGICAL RESEARCH. ISSN 1043-6618, AUG 2022, vol. 182. Dostupné na: https://doi.org/10.1016/j.phrs.2022.106326, Registrované v: WOS
6. [1.1] IMRAN, M. - MUNIR, M.Z. - IALHI, S. - ABBAS, F. - YOUNUS, M. - AHMAD, S. - NAEEM, M.K. - WASEEM, M. - IQBAL, A. - GUL, S. - WIDEMANN, E. - SHAFIQ, S. Identification and Characterization of Malate Dehydrogenases in Tomato (Solanum lycopersicum L.). In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2022, vol. 23, no. 17. Dostupné na: https://doi.org/10.3390/ijms231710028, Registrované v: WOS
7. [1.1] IORIO, A. - BROCHIER-ARMANET, C. - MAS, C. - STERPONE, F. - MADERN, D. Protein Conformational Space at the Edge of Allostery: Turning a Nonallosteric Malate Dehydrogenase into an "Allosterized" Enzyme Using Evolution-Guided Punctual Mutations. In MOLECULAR BIOLOGY AND EVOLUTION. ISSN 0737-4038, SEP 1 2022, vol. 39, no. 9. Dostupné na: https://doi.org/10.1093/molbev/msac186, Registrované v: WOS
8. [1.1] JI, W.H. - TANG, X. - DU, W. - LU, Y. - WANG, N.X. - WU, Q. - WEI, W. - LIU, J. - YU, H.D. - MA, B. - LI, L. - HUANG, W. Optical/electrochemical methods for detecting mitochondrial energy metabolism. In CHEMICAL SOCIETY REVIEWS. ISSN 0306-0012, JAN 4 2022, vol. 51, no. 1, p. 71-127. Dostupné na: https://doi.org/10.1039/d0cs01610a, Registrované v: WOS
9. [1.1] LI, X. - DENG, X.R. - GUO, X. - WEI, Y.B. - ZHAO, Y.F. - GUO, X.B. - ZHU, X.R. - ZHANG, J. - HU, L. Two-dimensional gel analysis to investigate the effect of hydroxyl radical oxidation on freshness indicator protein of Coregonus peled during 4 °C storage. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, MAR 15 2022, vol. 158. Dostupné na: https://doi.org/10.1016/j.lwt.2022.113147, Registrované v: WOS
10. [1.1] MCCUE, W.M. - FINZEL, B.C. Structural Characterization of the Human Cytosolic Malate Dehydrogenase I. In ACS OMEGA. ISSN 2470-1343, JAN 11 2022, vol. 7, no. 1, p. 207-214. Dostupné na: https://doi.org/10.1021/acsomega.1c04385, Registrované v: WOS
11. [1.1] MEEMONGKOLKIAT, T. - LIM, J. - CHANCHAO, C. - OLDROYD, B.P. Malate Dehydrogenase allele frequencies in the commercial honey bee (Apis mellifera) population in Thailand reflect those in source populations. In SCIENCEASIA. ISSN 1513-1874, FEB 2022, vol. 48, no. 1, p. 115-+. Dostupné na: https://doi.org/10.2306/scienceasia1513-1874.2022.015, Registrované v: WOS
12. [1.1] PUZAKOVA, L.V. - PUZAKOV, M.V. Tissue Specificity of the AqE Gene Activity in the Yellow Croaker Larimichthys crocea. In RUSSIAN JOURNAL OF GENETICS. ISSN 1022-7954, MAY 2022, vol. 58, no. 5, p. 538-546. Dostupné na: https://doi.org/10.1134/S1022795422050076, Registrované v: WOS
13. [1.1] QIN, N. - PENG, L.Y. - JIN, M.N. - WU, X.R. - JIA, M. - GAN, C.C. - ZHU, W. - ZHANG, P. - LIU, X.Q. - DUAN, H.Q. Target identification of anti-diabetic and anti-obesity flavonoid derivative (Fla-CN). In BIOORGANIC CHEMISTRY. ISSN 0045-2068, APR 2022, vol. 121. Dostupné na: https://doi.org/10.1016/j.bioorg.2022.105674, Registrované v: WOS
14. [1.1] SOUZA-MONTEIRO, D. - GUERRA, M.C.D. - BITTENCOURT, L.O. - ARAGAO, W.A.B. - DIONIZIO, A. - SILVEIRA, F.M. - BUZALAF, M.A.R. - MARTINS, M.D. - CRESPO-LOPEZ, M.E. - LIMA, R.R. Salivary Glands after Prolonged Aluminum Exposure:

Proteomic Approach Underlying Biochemical and Morphological Impairments in Rats. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, FEB 2022, vol. 23, no. 4. Dostupné na: https://doi.org/10.3390/ijms23042251, Registrované v: WOS
15. [1.1] THAMTARANA, P.J. - MARUCCI, A. - PANNONE, L. - BONNEFOND, A. - PEZZILLI, S. - BIAGINI, T. - BURANASUPKAJORN, P. - HASTINGS, T. - MENDONCA, C. - MARSELLI, L. - DI PAOLA, R. - ABUBAKAR, Z. - MERCURI, L. - ALBERICO, F. - FLEX, E. - CERòN, J. - PORTA-DE-LA-RIVA, M. - LUDOVICO, O. - CARELLA, M. - MARTINELLI, S. - MARCHETTI, P. - MAZZA, T. - FROGUEL, P. - TRISCHITTA, V. - DORIA, A. - PRUDENTE, S. Gain of Function of Malate Dehydrogenase 2 and Familial Hyperglycemia. In JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM. ISSN 0021-972X, FEB 17 2022, vol. 107, no. 3, p. 668-684. Dostupné na: https://doi.org/10.1210/clinem/dgab790, Registrované v: WOS
16. [1.1] THOMAS, M.J. - CASSIDY, E.R. - ROBINSON, D.S. - WALSTROM, K.M. Kinetic characterization and thermostability of C. elegans cytoplasmic and mitochondrial malate dehydrogenases. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, JAN 2022, vol. 1870, no. 1. Dostupné na: https://doi.org/10.1016/j.bbapap.2021.140722, Registrované v: WOS
17. [1.1] TSVIKLIST, V. - GUEST, R.L. - RAIVIO, T.L. The Cpx Stress Response Regulates Turnover of Respiratory Chain Proteins at the Inner Membrane of Escherichia coli. In FRONTIERS IN MICROBIOLOGY. JAN 28 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fmicb.2021.732288, Registrované v: WOS
18. [1.1] WAGNER, S. - MANICKAM, R. - BROTTO, M. - TIPPARAJU, S.M. NAD(+) centric mechanisms and molecular determinants of skeletal muscle disease and aging. In MOLECULAR AND CELLULAR BIOCHEMISTRY. ISSN 0300-8177, JUN 2022, vol. 477, no. 6, p. 1829-1848. Dostupné na: https://doi.org/10.1007/s11010-022-04408-1, Registrované v: WOS
19. [1.1] YILDIZ, S. - OKAY, A. - BUYUK, I. Defining the roles of PvMDH genes in response to salt stress and detailed characterization of the gene family. In JOURNAL OF PLANT BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0971-7811, JUN 2022, vol. 31, no. 2, p. 380-393. Dostupné na: https://doi.org/10.1007/s13562-021-00690-0, Registrované v: WOS
20. [1.1] YIN, C.H. - SUN, Z.D. - JI, C.L. - LI, F. - WU, H.F. Toxicological effects of tris(1,3-dichloro-2-propyl) phosphate in oyster Crassostrea gigas using proteomic and phosphoproteomic analyses. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, JUL 15 2022, vol. 434. Dostupné na: https://doi.org/10.1016/j.jhazmat.2022.128824, Registrované v: WOS
21. [1.2] RIAZ, Ammara - ZARA, Rabia - BUSHRA, Gul - KANWAL, Nazia - SADIQA, Ayesha - SHAREEF, Farzana - SARFRAZ, Iqra - SHAH, Muhammad Ajmal - UCAK, Ilknur - BUKHARI, Shazia Anwer - RASUL, Azhar. Cancer metabolism regulation by phytonutrients. In The Role of Phytonutrients in Metabolic Disorders, 2022-01-01, pp. 237-290. Dostupné na: https://doi.org/10.1016/B978-0-12-824356-5.00002-3, Registrované v: SCOPUS

ADCA228 MINGYAR, Erik - ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - NOVÁKOVÁ, Renáta - KORMANEC, Ján. The σF-specific anti-sigma factor RsfA is one of the protein kinases that phosphorylates the pleiotropic anti-anti-sigma factor BldG in Streptomyces coelicolor A3(2). In Gene, 2014, vol. 538, p. 280–287. (2013: 2.082 - IF, Q3 - JCR, 0.971 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2014.01.041

Citácie:

1. [1.1] CLARA, L. - DAVID, C. - LAILA, S. - VIRGINIE, R. - MARIE-JOELLE, V. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2022, vol. 23, no. 23. Dostupné na: https://doi.org/10.3390/ijms232314792, Registrované v: WOS
2. [1.1] OTANI, H. - MOUNCEY, N.J. RIViT-seq enables systematic identification of regulons of transcriptional machineries. In NATURE COMMUNICATIONS. JUN 17 2022, vol. 13, no. 1. Dostupné na: https://doi.org/10.1038/s41467-022-31191-w, Registrované v: WOS

ADCA229 MINGYAR, Erik - FECKOVÁ, Ľubomíra - NOVÁKOVÁ, Renáta - BEKEOVÁ, Carmen - KORMANEC, Ján. A γ-butyrolactone autoregulator-receptor system involved in the regulation of auricin production in Streptomyces aureofaciens CCM 3239. In Applied Microbiology and Biotechnology, 2015, vol. 99, pp. 309–325. (2014: 3.337 - IF, Q1 - JCR, 1.332 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-014-6057-0

Citácie:

1. [1.2] ARAKAWA, Kenji - SUZUKI, Toshihiro. Regulation of secondary metabolites through signaling molecules in streptomyces. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 167-183. Dostupné na:

https://doi.org/10.1007/978-981-16-6132-7_7, Registrované v: SCOPUS
2. [1.2] BAI, Jamuna A. - RAI, Ravishankar V. Quorum sensing and quorum quenching metabolites in actinomycetes. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 223-265. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_10, Registrované v: SCOPUS

ADCA230 MITICKÁ, H. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ROBERTS, M. - KORMANEC, Ján. Identification of nucleotides critical for activity of the sigmaE-dependent rpoEp3 promoter in Salmonella enterica serovar Typhimurium. In FEMS Microbiology Letters, 2004, vol. 238, p. 227–233. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/j.femsle.2004.07.039

Citácie:
1. [1.1] DA SILVA, Giarla Cunha - ROSSI, Ciro Cesar - ROSA, Jessica Nogueira - SANCHES, Newton Moreno - CARDOSO, Daniela Lopes - LI, Yanwen - WITNEY, Adam A. A. - GOULD, Kate A. A. - FONTES, Patricia Pereira - CALLAGHAN, Anastasia J. J. - BOSSE, Janine Therese - LANGFORD, Paul Richard - BAZZOLLI, Denise Mara Soares. Identification of small RNAs associated with RNA chaperone Hfq reveals a new stress response regulator in Actinobacillus pleuropneumoniae. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.1017278, Registrované v: WOS

ADCA231 MITICKÁ, H. - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - HUMPHREYS, S. - FARN, J. - ROBERTS, M. - KORMANEC, Ján. Transcriptional analysis of the rpoE gene encoding extracytoplasmic stress response sigma factor sigmaE in Salmonella enterica serovar Typhimurium. In FEMS Microbiology Letters, 2003, vol. 226, p. 307-314. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(03)00600-1

Citácie:
1. [1.1] HUR, J.I. - KIM, J. - RYU, S. - JEON, B. Phylogenetic Association and Genetic Factors in Cold Stress Tolerance in Campylobacter jejuni. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, DEC 21 2022, vol. 10, no. 6. Dostupné na: https://doi.org/10.1128/spectrum.02681-22, Registrované v: WOS
2. [1.1] PARK, N. - KWON, J.G. - NA, H.J. - LEE, S.H.Y. - LEE, J.H. - RYU, S. Discovery and characterization of a new genotype of Salmonella enterica serovar Bareilly isolated from diarrhea patients of food-borne outbreaks. In FRONTIERS IN MICROBIOLOGY. OCT 26 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.1024189, Registrované v: WOS

ADCA232 MUHAMMAD, A. - SCHILLER, H.B. - FORSTER, F. - ECKERSTORFER, P. - GEYEREGGER, R. - LEKSA, Vladimír - ZLABINGER, G. - SIBILIA, M. - SONNLEITNER, A. Ch. - PASTER, W. - STOCKINGER, H. Sequential Cooperation of CD2 and CD48 in the Buildup of the Early TCR Signalosome. In Journal of Immunology, 2009, vol. 182, p. 7672-7680. (2008: 6.000 - IF, Q1 - JCR, 4.609 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.0800691

Citácie:
1. [1.1] LI, Bin - LU, Yan - ZHONG, Ming-Chao - QIAN, Jin - LI, Rui - DAVIDSON, Dominique - TANG, Zhenghai - ZHU, Kaiwen - ARGENTY, Jeremy - DE PEREDO, Anne Gonzalez - MALISSEN, Bernard - RONCAGALLI, Romain - VEILLETTE, Andre. Cis interactions between CD2 and its ligands on T cells are required for T cell activation. In SCIENCE IMMUNOLOGY, 2022, vol. 7, no. 74, pp. ISSN 2470-9468. Dostupné na: https://doi.org/10.1126/sciimmunol.abn6373, Registrované v: WOS
2. [1.1] MCAFFEE, Darren B. - O';DAIR, Mark K. - LIN, Jenny J. - LOW-NAM, Shalini T. - WILHELM, Kiera B. - KIM, Sungi - MORITA, Shumpei - GROVES, Jay T. Discrete LAT condensates encode antigen information from single pMHC:TCR binding events. In NATURE COMMUNICATIONS, 2022, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1038/s41467-022-35093-9, Registrované v: WOS
3. [1.1] SAIGUSA, Ryosuke - VALLEJO, Jenifer - GULATI, Rishab - SUTHAHAR, Sujit Silas Armstrong - SURYAWANSHI, Vasantika - ALIMADADI, Ahmad - MAKINGS, Jeffrey - DURANT, Christopher P. - FREUCHET, Antoine - ROY, Payel - GHOSHEH, Yanal - PANDORI, William - PATTARABANJIRD, Tanyaporn - DRAGO, Fabrizio - TAYLOR, Angela - MCNAMARA, Coleen A. - SHEMESH, Avishai - LANIER, Lewis L. - HEDRICK, Catherine C. - LEY, Klaus. Sex Differences in Coronary Artery Disease and Diabetes Revealed by scRNA-Seq and CITE-Seq of Human CD4+T Cells. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 17, pp. Dostupné na: https://doi.org/10.3390/ijms23179875, Registrované v: WOS

ADCA233 MUCHOVÁ, Katarína - WILKINSON, A.J. - BARÁK, Imrich. Changes of lipid domains in Bacillus subtilis cells with disrupted cell wall peptidoglycan. In FEMS Microbiology Letters, 2011, vol. 325, p. 92-98. (2010: 2.040 - IF, Q3 - JCR, 1.081 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2011.02417.x

Citácie:
1. [1.1] BOUTTE, Cara C. Localized Production of Cell Wall Precursors May Be Critical for

Regulating the Mycobacterial Cell Wall. In JOURNAL OF BACTERIOLOGY, 2022, vol. 204, no. 6, pp. ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/jb.00125-22, Registrované v: WOS
2. [1.1] MODAK, Biswabrata - GIRKAR, Siddhali - NARAYAN, Rishikesh - KAPOOR, Shobhna. Mycobacterial Membranes as Actionable Targets for Lipid-Centric Therapy in Tuberculosis. In JOURNAL OF MEDICINAL CHEMISTRY, 2022, vol. 65, no. 4, pp. 3046-3065. ISSN 0022-2623. Dostupné na: https://doi.org/10.1021/acs.jmedchem.1c01870, Registrované v: WOS

ADCA234 MUCHOVÁ, Katarína - CHROMÍKOVÁ, Zuzana - BARÁK, Imrich. Control of Bacillus subtilis cell shape by RodZ. In Environmental Microbiology, 2013, vol. 15, p. 3259-3271. (2012: 5.756 - IF, Q1 - JCR, 3.165 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12200

Citácie:

1. [1.1] LAMANNA, M.M. - MANZOOR, I. - JOSEPH, M. - YE, Z.A. - BENEDET, M. - ZANARDI, A. - REN, Z.Q. - WANG, X.D. - MASSIDDA, O. - TSUI, H.C.T. - WINKLER, M.E. Roles of RodZ and class A PBP1b in the assembly and regulation of the peripheral peptidoglycan elongasome in ovoid-shaped cells of Streptococcus pneumoniae D39. In MOLECULAR MICROBIOLOGY. ISSN 0950-382X, OCT 2022, vol. 118, no. 4, p. 336-368. Dostupné na: https://doi.org/10.1111/mmi.14969, Registrované v: WOS

ADCA235 MULLEROVÁ, Denisa - KRAJČÍKOVÁ, Daniela - BARÁK, Imrich. Interactions between Bacillus subtilis early spore coat morphogenetic proteins. In FEMS Microbiology Letters, 2009, vol. 299, p. 74-85. (2008: 2.021 - IF, Q3 - JCR, 1.084 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2009.01737.x

Citácie:

1. [1.1] DELERUE, Thomas - ANANTHARAMAN, Vivek - GILMORE, Michael C. - POPHAM, David L. - CAVA, Felipe - ARAVIND, L. - RAMAMURTHI, Kumaran S. Bacterial developmental checkpoint that directly monitors cell surface morphogenesis. In DEVELOPMENTAL CELL, 2022, vol. 57, no. 3, pp. 344-+. ISSN 1534-5807. Dostupné na: https://doi.org/10.1016/j.devcel.2021.12.021, Registrované v: WOS

ADCA236 NAGYOVÁ, V. - NAGY, Alexander - TIMKO, Jozef. Morphological, physiological and molecular biological characterisation of isolates from first cases of Acanthamoeba keratitis in Slovakia. In Parasitology Research, 2010, vol. 106, p. 861-872. (2009: 1.721 - IF, Q3 - JCR, 0.754 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0932-0113. Dostupné na: https://doi.org/10.1007/s00436-010-1731-3

Citácie:

1. [1.1] CHAN, Li-Li - TOH, Hiu-Ching - JAIKWANG, Kantiya - LOO, Ee-Mun - WONG, Jia-Haw - LIEW, Yun-Khoon - ONG, Kian-Huat - OOI, Soo-Shen. Report of rare genotypes of Acanthamoeba from soil source of the Payeh Maga Highland forest, North-eastern Sarawak, Malaysia. In ACTA TROPICA, 2022, vol. 229, no., pp. ISSN 0001-706X. Dostupné na: https://doi.org/10.1016/j.actatropica.2022.106372, Registrované v: WOS
2. [1.1] HAMZA, HananTaher - MOUSTAFA, Shaima M. N. - TAHA, Rania H. Green Nano complex as a promising tool for purification of water stations from protozoa and fungi in Sakaka Al-Jouf area. In BIOSCIENCE RESEARCH, 2022, vol. 19, no. 2, pp. 824-834. ISSN 1811-9506., Registrované v: WOS
3. [1.1] OTERO-RUIZ, Alejandro - DANIEL GONZALEZ-ZUNIGA, Leobardo - ZULEMA RODRIGUEZ-ANAYA, Libia - FERNANDO LARES-JIMENEZ, Luis - REYES GONZALEZ-GALAVIZ, Jose - LARES-VILLA, Fernando. Distribution and Current State of Molecular Genetic Characterization in Pathogenic Free-Living Amoebae. In PATHOGENS, 2022, vol. 11, no. 10, pp. Dostupné na: https://doi.org/10.3390/pathogens11101199, Registrované v: WOS

ADCA237 NAJMANOVA, L. - KUTEJOVÁ, Eva - KADLEC, J - POLAN, M. - OLSOVSKA, J. - BENADA, O. - NOVOTNA, J. - KAMENIK, Z. - HALADA, P. - BAUER, Jacob - JANATA, J. Characterization of N-Demethyllincosamide Methyltransferases LmbJ and CcbJ. In Chembiochem, 2013, vol. 14, p. 2259-2262. (2012: 3.740 - IF, Q1 - JCR, 1.874 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1439-4227. Dostupné na: https://doi.org/10.1002/cbic.201300389

Citácie:

1. [1.1] ZHENG, X.H. - YE, R.F. - DING, Q.H. - HU, F.X. - ZHANG, H.Z. - LAI, S. Simultaneous improvement of lincomycin A production and reduction of lincomycin B levels in Streptomyces lincolnensis using a combined medium optimization approach. In ANNALS OF MICROBIOLOGY. ISSN 1590-4261, DEC 2022, vol. 72, no. 1. Dostupné na: https://doi.org/10.1186/s13213-022-01672-w, Registrované v: WOS

ADCA238 NICOLUSSI, A. - AUER, M. - SEVCNIKAR, B. - PAUMANN-PAGE, M. - PFANZAGL, V. - ZÁMOCKÝ, Marcel - HOFBAUER, S. - FURTMULLER, P.G. - OBINGER, C. Posttranslational modification of heme in peroxidases – impact on structure and catalysis. In Archives of Biochemistry and Biophysics, 2018, vol. 643, p. 14-23. (2017: 3.118 - IF, Q2 - JCR, 1.350 - SJR, Q1 - SJR,

karentované - CCC). (2018 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2018.02.008

Citácie:

1. [1.1] DIAMANTI, R. - SRINIVAS, V. - JOHANSSON, A.I. - NORDSTROM, A. - GRIESE, J.J. - LEBRETTE, H. - HOGBOM, M. Comparative structural analysis provides new insights into the function of R2-like ligand-binding oxidase. In FEBS LETTERS. ISSN 0014-5793, JUN 2022, vol. 596, no. 12, p. 1600-1610., Registrované v: WOS

2. [1.1] VALADEZ-COSMES, P. - RAFTOPOULOU, S. - MIHALIC, Z.N. - MARSCHE, G. - KARGL, J. Myeloperoxidase: Growing importance in cancer pathogenesis and potential drug target. In PHARMACOLOGY & THERAPEUTICS. ISSN 0163-7258, AUG 2022, vol. 236., Registrované v: WOS

3. [1.1] ZHANG, S.N. - ZHENG, Z.H. - ZHENG, C.Y. - ZHAO, Y.D. - JIANG, Z. Effect of high hydrostatic pressure on activity, thermal stability and structure of horseradish peroxidase. In FOOD CHEMISTRY. ISSN 0308-8146, JUN 15 2022, vol. 379., Registrované v: WOS

ADCA239 NOVÁKOVÁ, Jana - IZSÁKOVÁ, Anita - GRIVALSKÝ, Tomáš - OTTMANN, C. - FARKAŠOVSKÝ, Marian. Improved method for high-efficiency electrotransformation of Escherichia coli with the large BAC plasmids. In Folia microbiologica, 2014, vol. 59, p. 53–61. (2013: 1.145 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/s12223-013-0267-1

Citácie:

1. [1.1] ALLARD, N. - NEIL, K. - GRENIER, F. - RODRIGUE, S. The Type IV Pilus of Plasmid TP114 Displays Adhesins Conferring Conjugation Specificity and Is Important for DNA Transfer in the Mouse Gut Microbiota. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, APR 2022, vol. 10, no. 2. Dostupné na: https://doi.org/10.1128/spectrum.02303-21, Registrované v: WOS

ADCA240 NOVÁKOVÁ, Renáta* - NÚñEZ, L.E. - HOMEROVÁ, Dagmar - KNIRSCHOVÁ, Renáta - FECKOVÁ, Ľubomíra - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - MENÉNDEZ, N. - MORÍS, F. - CORTÉS, J. - KORMANEC, Ján**. Increased heterologous production of the antitumoral polyketide mithramycin A by engineered Streptomyces lividans TK24 strains. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 857–869. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-017-8642-5

Citácie:

1. [1.1] GALLEGO, B. - MURILLO, D. - REY, V. - HUERGO, C. - ESTUPINAN, O. - RODRIGUEZ, A. - TORNIN, J. - RODRIGUEZ, R. Addressing Doxorubicin Resistance in Bone Sarcomas Using Novel Drug-Resistant Models. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUN 2022, vol. 23, no. 12., Registrované v: WOS

2. [1.1] LIAO, C.Y. - WANG, D. - QIN, S.Y. - ZHANG, Y. - CHEN, J. - XU, R.J. - XU, F.G. - ZHANG, P. Inflammatory-Dependent Bidirectional Effect of Bile Acids on NLRP3 Inflammasome and Its Role in Ameliorating CPT-11-Induced Colitis. In FRONTIERS IN PHARMACOLOGY. MAY 31 2022, vol. 13., Registrované v: WOS

3. [1.1] LIBIS, V. - MACINTYRE, L.W. - MEHMOOD, R. - GUERRERO, L. - TERNEI, M.A. - ANTONOVSKY, N. - BURIAN, J. - WANG, Z.Q. - BRADY, S.F. Multiplexed mobilization and expression of biosynthetic gene clusters. In NATURE COMMUNICATIONS. SEP 6 2022, vol. 13, no. 1., Registrované v: WOS

4. [1.1] SONG, Y. - ZHANG, Z.X. - ZHANG, X.L. - YAO, J.Y. - YU, X.P. - SHENTU, X.P. Genome Shuffling Mutant of Streptomyces diastatochromogenes for Substantial Improvement of Toyocamycin Production. In FERMENTATION-BASEL. OCT 2022, vol. 8, no. 10., Registrované v: WOS

5. [1.1] ZHAO, W. - JIANG, H. - LIU, X.W. - ZHOU, J. - WU, B. Polyene Macrolactams from Marine and Terrestrial Sources: Structure, Production Strategies, Biosynthesis and Bioactivities. In MARINE DRUGS. JUN 2022, vol. 20, no. 6., Registrované v: WOS

6. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_11, Registrované v: SCOPUS

7. [1.2] NING, Shuqing - WU, Tingting - REN, Yushuang - LUO, Yunzi. Synthetic biology in actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 331-362. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_13, Registrované v: SCOPUS

8. [1.2] UL HAQ, Ihtisham - RAHIM, Kashif - RAFIQ, Muhammad - ASIF, Tayyaba - ALVI, Sifa - YASEEN, Kinza. Polyketides and SARS-CoV-2. In Application of Natural Products in SARS-CoV-2, 2022-01-01, pp. 423-444. Dostupné na: https://doi.org/10.1016/B978-0-323-95047-3.00020-4, Registrované v: SCOPUS

9. [1.2] YAGÜE, Paula - GONZALEZ-QUIÑONEZ, Nathaly - FERNÁNDEZ-GARCÍA, Gemma - ALONSO-FERNÁNDEZ, Sergio - MANTECA, Angel. New strategies to activate secondary metabolism in Streptomyces. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 185-198. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_8, Registrované v: SCOPUS

ADCA241 NOVÁKOVÁ, Renáta - REHÁKOVÁ, Alena - KUTAŠ, Peter - FECKOVÁ, Ľubomíra - KORMANEC, Ján. The role of two SARP-family transcriptional regulators in regulation of the auricin gene cluster in Streptomyces aureofaciens CCM 3239. In Microbiology-SGM, 2011, vol. 157, p. 1629-1639. (2010: 2.957 - IF, Q2 - JCR, 1.804 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.047795-0

Citácie:

1. [1.1] ZHANG, Jianye - HASSAN, Heba Ali - ABDELMOHSEN, Usama Ramadan - ZAHRAN, Eman Maher. A Glossary for Chemical Approaches towards Unlocking the Trove of Metabolic Treasures in Actinomycetes. In MOLECULES, 2022, vol. 27, no. 1, pp. Dostupné na: https://doi.org/10.3390/molecules27010142, Registrované v: WOS

2. [1.1] ZHANG, Naifan - DONG, Yao - ZHOU, Hongli - CUI, Hao. Effect of PAS-LuxR Family Regulators on the Secondary Metabolism of Streptomyces. In ANTIBIOTICS-BASEL, 2022, vol. 11, no. 12, pp. ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics11121783, Registrované v: WOS

ADCA242 NOVÁKOVÁ, Renáta - REHÁKOVÁ, Alena - FECKOVÁ, Ľubomíra - KUTAŠ, Peter - KNIRSCHOVÁ, Renáta - KORMANEC, Ján. Genetic manipulation of pathway regulation for overproduction of angucycline-like antibiotic auricin in Streptomyces aureofaciens CCM 3239. In Folia microbiologica, 2011, vol. 56, p. 278-282. (2010: 0.977 - IF, Q4 - JCR, 0.406 - SJR, Q2 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/s12223-011-0033-1

Citácie:

1. [1.2] DRUFVA, Erin E. - SWORD, Tien T. - BAILEY, Constance B. Metabolic engineering of actinomycetes for natural product discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 267-307. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7_11, Registrované v: SCOPUS

ADCA243 NOVÁKOVÁ, Renáta - ODNOGOVÁ, Zuzana - KUTAŠ, Peter - FECKOVÁ, Ľubomíra - KORMANEC, Ján. Identification and characterization of an Indigoidine-like Gene for a blue pigment biosynthesis in Streptomyces aureofaciens CCM 3239. In Folia microbiologica, 2010, vol. 55, p. 119-125. (2009: 0.978 - IF, Q4 - JCR, 0.429 - SJR, Q2 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/s12223-010-0018-5

Citácie:

1. [1.1] SARMIENTO-TOVAR, Aixa A. - SILVA, Laura - SANCHEZ-SUAREZ, Jeysson - DIAZ, Luis. Streptomyces-Derived Bioactive Pigments: Ecofriendly Source of Bioactive Compounds. In COATINGS, 2022, vol. 12, no. 12, pp. Dostupné na: https://doi.org/10.3390/coatings12121858, Registrované v: WOS

2. [1.2] RAI, Ravishankar V. - BAI, Jamuna A. Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery. In Natural Products from Actinomycetes: Diversity, Ecology and Drug Discovery, 2022-04-15, pp. 1-508. Dostupné na: https://doi.org/10.1007/978-981-16-6132-7, Registrované v: SCOPUS

ADCA244 NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - FECKOVÁ, Ľubomíra - KORMANEC, Ján. Characterization of a regulatory gene essential for the production of the angucyclinelike polyketide antibiotic auricin in Streptomyces aureofaciens CCM 3239. In Microbiology, 2005, vol. 151, p. 2693-2706. ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.28019-0

Citácie:

1. [1.1] MINGYAR, Erik - MUHLING, Lucas - KULIK, Andreas - WINKLER, Anika - WIBBERG, Daniel - KALINOWSKI, Jorn - BLIN, Kai - WEBER, Tilmann - WOHLLEBEN, Wolfgang - STEGMANN, Evi. A Regulator Based "Semi-Targeted" Approach to Activate Silent Biosynthetic Gene Clusters. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2021, vol. 22, no. 14, pp. Dostupné na: https://doi.org/10.3390/ijms22147567, Registrované v: WOS

2. [1.1] TAKAO, Risa - SAKAI, Katsuyuki - KOSHINO, Hiroyuki - OSADA, Hiroyuki - TAKAHASHI, Shunji. Identification of the kinanthraquinone biosynthetic gene cluster by expression of an atypical response regulator. In BIOSCIENCE BIOTECHNOLOGY AND BIOCHEMISTRY, 2021, vol. 85, no. 3, pp. 714-721. ISSN 0916-8451. Dostupné na: https://doi.org/10.1093/bbb/zbaa082, Registrované v: WOS

ADCA245 NOVÁKOVÁ, Slavomíra** - DANCHENKO, Maksym* - OKAJČEKOVÁ, Terézia - BARANOVIČOVÁ, Eva - KOVÁČ, Andrej - GRENDÁR, Marián - BEKE, Gábor - PÁLEŠOVÁ, Janka - STRNÁDEL, Ján - JANÍČKOVÁ, Mária - HALAŠOVÁ, E. - ŠKOVIEROVÁ, Henrieta. Comparative Proteomic and Metabolomic Analysis of Human Osteoblasts, Differentiated from Dental

Pulp Stem Cells, Hinted Crucial Signaling Pathways Promoting Osteogenesis. In International Journal of Molecular Sciences, 2021, vol. 22, no. 15, art. no.7908. (2020: 5.924 - IF, Q1 - JCR, 1.455 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms22157908

Citácie:

1. [1.1] BISPO, Daniela S. C. - MICHALKOVA, Lenka - CORREIA, Marlene - JESUS, Catarina S. H. - DUARTE, Iola F. - GOODFELLOW, Brian J. - OLIVEIRA, Mariana B. - MANO, Joao F. - GIL, Ana M. Endo- and Exometabolome Crosstalk in Mesenchymal Stem Cells Undergoing Osteogenic Differentiation. In CELLS. APR 2022, vol. 11, no. 8. Dostupné na: https://doi.org/10.3390/cells11081257, Registrované v: WOS

ADCA246 NOVÁKOVÁ, Slavomíra - ŠUBR, Zdeno W. - KOVÁČ, Andrej - FIALOVÁ, Ivana - BEKE, Gábor - DANCHENKO, Maksym**. Cucumber mosaic virus resistance: Comparative proteomics of contrasting Cucurnis sativus cultivars after long-term infection. In Journal of Proteomics, 2020, vol. 214, art. no. 103626. (2019: 3.509 - IF, Q2 - JCR, 1.189 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1874-3919. Dostupné na: https://doi.org/10.1016/j.jprot.2019.103626 (VEGA 2/0032/18 : Výskyt a variabilita vírusov hospodársky významných plodín v skleníkových podmienkach na Slovensku a analýza epidemiologických faktorov ovplyvňujúcich ich virulenciu a šírenie. APVV-18-0005 : Analýza faktorov ovplyvňujúcich odpoveď plodiny na infekciu potyvírusmi na molekulárnej a bunkovej úrovni)

Citácie:

1. [1.1] LATOURRETTE, K. - GARCIA-RUIZ, H. Determinants of Virus Variation, Evolution, and Host Adaptation. In PATHOGENS. SEP 2022, vol. 11, no. 9., Registrované v: WOS

2. [1.1] RODRIGUEZ-VERASTEGUI, L.L. - RAMIREZ-ZAVALETA, C.Y. - CAPILLA-HERNANDEZ, M.F. - GREGORIO-JORGE, J. Viruses Infecting Trees and Herbs That Produce Edible Fleshy Fruits with a Prominent Value in the Global Market: An Evolutionary Perspective. In PLANTS-BASEL. JAN 2022, vol. 11, no. 2. Available at: https://doi.org/10.3390/plants11020203, Registrované v: WOS

3. [1.1] WANG, J.G. - GAO, X.M. - LIU, M. - LI, J.X. - YANG, H. - WANG, Z.H. - YANG, L.L. Camellia oil trait and DIA quantitative proteomics analyses reveal the impact of harvesting time on the oil content and quality of the late-maturing cultivar C. oleifera ';Huaxin';. In FOOD QUALITY AND SAFETY. ISSN 2399-1399, JAN 1 2022, vol. 6., Registrované v: WOS

4. [1.2] MATHEW, Deepu. Omics in vegetable crops: Cucurbitaceae and Amaryllidaceae. In Omics in Horticultural Crops, 2022-01-01, pp. 239-280. ISBN 978-032389905-5, 978-032389913-0. Dostupné na: https://doi.org/10.1016/B978-0-323-89905-5.00005-7, Registrované v: SCOPUS

ADCA247 OHRADANOVA-REPIC, A. - MACHACEK, C. - DONNER, C. - MÜHLGRABNER, Vanessa - PETROVČÍKOVÁ, Eva - ZAHRADNÍKOVÁ, Alexandra, ml. - VIČÍKOVÁ, Kristína - HOŘEJŠÍ, Václav - STOCKINGER, H. - LEKSA, Vladimír**. The mannose 6-phosphate/insulin-like growth factor 2 receptor mediates plasminogen-induced efferocytosis. In Journal of Leukocyte Biology, 2019, vol. 105, no. 3, p. 519-530. (2018: 4.012 - IF, Q2 - JCR, 1.929 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0741-5400. Dostupné na: https://doi.org/10.1002/JLB.1AB0417-160RR (APVV-16-0452 : Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (PPIS))

Citácie:

1. [1.1] NICHOLAS, B. - GUO, J. - LEE, H.H. - BAILEY, A. - MALEFYT, R.D. - CICMIL, M. - DJUKANOVIC, R. Analysis of cell-specific peripheral blood biomarkers in severe allergic asthma identifies innate immune dysfunction. In CLINICAL AND EXPERIMENTAL ALLERGY. ISSN 0954-7894, NOV 2022, vol. 52, no. 11, p. 1334-1337., Registrované v: WOS

2. [1.1] ZHONG, Y. - REN, X.Y. - CAO, X. - XU, Y.L. - SONG, Y. - ZHOU, Y.D. - MAO, F. - SHEN, S.J. - WANG, Z. - SUN, Q. Insulin-like growth factor 2 receptor is a key immune-related gene that is correlated with a poor prognosis in patients with triple-negative breast cancer: A bioinformatics analysis. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, OCT 18 2022, vol. 12., Registrované v: WOS

ADCA248 OLEXOVA, L. - DOVICOVICOVA, L. - SVEC, M. - SIEKEL, P. - KUCHTA, T. Detection of gluten-containing cereals in flours and “gluten-free” bakery products by polymerase chain reaction. In Food Control, 2006, vol. 17, p. 234–237. (2005: 1.107 - IF, Q2 - JCR, 0.596 - SJR, Q1 - SJR). ISSN 0956-7135. Dostupné na: https://doi.org/10.1016/j.foodcont.2004.10.009

Citácie:

1. [1.1] VYROSTKOVA, Jana - REGECOVA, Ivana - ZIGO, Frantisek - MARCINCAK, Slavomir - KOZAROVA, Ivona - KOVACOVA, Mariana - BERTOVA, Daniela. Detection of Gluten in Gluten-Free Foods of Plant Origin. In FOODS, 2022, vol. 11, no. 14, pp. Dostupné na: https://doi.org/10.3390/foods11142011, Registrované v: WOS

ADCA249 ONDROVIČOVÁ, Gabriela - LIU, T. - SINGH, K. - TIAN, B. - LI, H. - GAKH, O. - PEREČKO, D. - JANATA, J. - GRANOT, Z. - ORLY, J. - KUTEJOVÁ, Eva - SUZUKI, C.K. Cleavage site selection within a folded substrate by the mitochondrial ATPdependent Lon protease. In Journal of Biological Chemistry, 2005, vol. 280, p. 25103-25110. (2004: 6.355 - IF, karentované - CCC). (2005 - Current Contents, WOS, SCOPUS). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M502796200

Citácie:

1. [1.1] GUSTCHINA, Alla - LI, Mi - ANDRIANOVA, Anna G. - KUDZHAEV, Arsen M. - LOUNTOS, George T. - SEKULA, Bartosz - CHERRY, Scott - TROPEA, Joseph E. - SMIRNOV, Ivan - WLODAWER, Alexander - ROTANOVA, Tatyana. Unique Structural Fold of LonBA Protease from Bacillus subtilis, a Member of a Newly Identified Subfamily of Lon Proteases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 19, pp. Dostupné na: https://doi.org/10.3390/ijms231911425, Registrované v: WOS

2. [1.1] NITIKA - ZHENG, Bo - RUAN, Linhao - KLINE, Jake T. - OMKAR, Siddhi - SIKORA, Jacek - TORRES, Mara Texeira - WANG, Yuhao - TAKAKUWA, Jade E. - HUGUET, Romain - KLEMM, Cinzia - SEGARRA, Veronica A. - WINTERS, Matthew J. - PRYCIAK, Peter M. - THORPE, Peter H. - TATEBAYASHI, Kazuo - LI, Rong - FORNELLI, Luca - TRUMAN, Andrew W. Comprehensive characterization of the Hsp70 interactome reveals novel client proteins and interactions mediated by posttranslational modifications. In PLOS BIOLOGY, 2022, vol. 20, no. 10, pp. ISSN 1544-9173. Dostupné na: https://doi.org/10.1371/journal.pbio.3001839, Registrované v: WOS

ADCA250 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - MOSNÁČKOVÁ, Katarína - MUSIOL, Marta - OPÁLEK, Andrej - BUČKOVÁ, Mária - RYCHTER, Piotr - ECKSTEIN ANDICSOVÁ, Anita. Electrospun Nisin-Loaded Poly(epsilon-caprolactone)-Based Active Food Packaging. In Materials, 2022, vol. 15, no. 4540. (2021: 3.748 - IF, Q1 - JCR, 0.604 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15134540

Citácie:

1. [1.1] POPA, E.E. - MITELUT, A.C. - RAPA, M. - POPESCU, P.A. - DRAGHICI, M.C. - GEICU-CRISTEA, M. - POPA, M.E. Antimicrobial Active Packaging Containing Nisin for Preservation of Products of Animal Origin: An Overview. In FOODS. DEC 2022, vol. 11, no. 23. Dostupné na: https://doi.org/10.3390/foods11233820, Registrované v: WOS

ADCA251 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - BUČKOVÁ, Mária - KRONEKOVÁ, Zuzana - KLEINOVÁ, Angela - NAGY, Štefan - RYDZ, Joanna - OPÁLEK, Andrej - SLÁVIKOVÁ, Monika - ECKSTEIN ANDICSOVÁ, Anita**. The drug-loaded electrospun poly(epsilon-caprolactone) mats for therapeutic application. In Nanomaterials-Basel, 2021, vol. 11, art. no. 922, [19] p. (2020: 5.076 - IF, Q1 - JCR, 0.919 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2079-4991. Dostupné na: https://doi.org/10.3390/nano11040922

Citácie:

1. [1.1] APARICIO-COLLADO, J.L. - GARCIA-SAN-MARTIN, N. - MOLINA-MATEO, J. - CABANILLES, C.T. - QUILES, V.D. - SERRANO-AROCA, A. - SERRA, R.S.I. Electroactive calcium-alginate/polycaprolactone/reduced graphene oxide nanohybrid hydrogels for skeletal muscle tissue engineering. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, JUN 2022, vol. 214. Dostupné na: https://doi.org/10.1016/j.colsurfb.2022.112455, Registrované v: WOS

2. [1.1] SANPAKITWATTANA, A. - SUVANNAPRUK, W. - CHUMNANVEJ, S. - HEMSTAPAT, R. - SUWANPRATEEB, J. Cefazolin Loaded Oxidized Regenerated Cellulose/Polycaprolactone Bilayered Composite for Use as Potential Antibacterial Dural Substitute. In POLYMERS. OCT 2022, vol. 14, no. 20. Dostupné na: https://doi.org/10.3390/polym14204449, Registrované v: WOS

ADCA252 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - MOSNÁČKOVÁ, Katarína - HRŮZA, Jakub - FRAJOVÁ, Jaroslava - OPÁLEK, Andrej - BUČKOVÁ, Mária - KOZICS, Katarína - PEER, Petra - ECKSTEIN ANDICSOVÁ, Anita**. Electrospun poly(ethylene terephthalate)/silk fibroin composite for filtration application. In Polymers : Open Access Polymer Science Journal, 2021, vol. 13, art. no. 2499, [23] p. (2020: 4.329 - IF, Q1 - JCR, 0.770 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2073-4360. Dostupné na: https://doi.org/10.3390/polym13152499

Citácie:

1. [1.1] EL-SHEIKH, M.N. - METWALLY, B.S. - MUBARAK, M.F. - AHMED, H.A. - MOGHNY, T.A. - ZAYED, A.M. Fabrication of electrospun polyamide-weathered basalt nano-composite as a non-conventional membrane for basic and acid dye removal. In POLYMER BULLETIN. ISSN 0170-0839. Dostupné na: https://doi.org/10.1007/s00289-022-04459-w, Registrované v: WOS

2. [1.1] GU, H.L. - WANG, F. - LIU, H. - PRINTON, K. - HU, X. Multifunctional silk fibroin-Poly(L-lactic acid) porous nanofibers: Designing adjustable nanopores to control composite properties and biological responses. In MATERIALS & DESIGN. ISSN 0264-1275, OCT 2022, vol. 222. Dostupné na: https://doi.org/10.1016/j.matdes.2022.111053, Registrované v:

WOS
3. [1.1] GUERREIRO, S.F.C. - FERREIRA, C.A.M. - VALENTE, J.F.A. - PATRICIO, T.M.F. - ALVES, N.M.F. - DIAS, J.R. Electrospun-Based Membranes as a Key Tool to Prevent Respiratory Infections. In POLYMERS. SEP 2022, vol. 14, no. 18. Dostupné na: https://doi.org/10.3390/polym14183787, Registrované v: WOS
4. [1.1] GUPTA, S. - PRASAD, P. - ROY, A. - ALAM, M.M. - AHMED, I. - BIT, A. Metallic ion-based graphene oxide functionalized silk fibroin-based dressing promotes wound healing via improved bactericidal outcomes and faster re-epithelization. In BIOMEDICAL MATERIALS. ISSN 1748-6041, MAY 1 2022, vol. 17, no. 3. Dostupné na: https://doi.org/10.1088/1748-605X/ac64dd, Registrované v: WOS
5. [1.1] KIRSHANOV, K. - TOMS, R. - ALIEV, G. - NAUMOVA, A. - MELNIKOV, P. - GERVALD, A. Recent Developments and Perspectives of Recycled Poly(ethylene terephthalate)-Based Membranes: A Review. In MEMBRANES. NOV 2022, vol. 12, no. 11. Dostupné na: https://doi.org/10.3390/membranes12111105, Registrované v: WOS
6. [1.1] LI, X.H. - PENG, Y.J. - DENG, Y.C. - YE, F.P. - ZHANG, C.P. - HU, X.Y. - LIU, Y. - ZHANG, D.D. Recycling and Reutilizing Polymer Waste via Electrospun Micro/Nanofibers: A Review. In NANOMATERIALS. MAY 2022, vol. 12, no. 10. Dostupné na: https://doi.org/10.3390/nano12101663, Registrované v: WOS
7. [1.1] WONGKRONGSAK, S. - PANGON, A. - PONGSAK, N. - PIROONPAN, T. - PASANPHAN, W. Strengthened Silk-Fibroin/Poly(ethylene oxide) Nonwoven Nanofibers: A Dual Green Process Using Pure Water for Electrospinning and Electron Beam-Assisted Cross-Linking. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, FEB 28 2022, vol. 10, no. 8, p. 2653-2672. Dostupné na: https://doi.org/10.1021/acssuschemeng.1c06965, Registrované v: WOS
8. [1.1] ZAKRZEWSKA, A. - BAYAN, M.A.H. - NAKIELSKI, P. - PETRONELLA, F. - DE SIO, L. - PIERINI, F. Nanotechnology Transition Roadmap toward Multifunctional Stimuli-Responsive Face Masks. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, OCT 19 2022, vol. 14, no. 41, p. 46123-46144. Dostupné na: https://doi.org/10.1021/acsami.2c10335, Registrované v: WOS

ADCA253 ORAVCOVA, K. - KACLIKOVA, E. - KRASCENICSOVA, K. - PANGALLO, Domenico - BREZNA, B. - SIEKEL, P. - KUCHTA, T. Detection and quantification of Listeria monocytogenes by 5';-nuclease polymerase chain reaction targeting the actA gene. In Letters in Applied Microbiology, 2006, vol. 42, p. 15-18. (2005: 1.440 - IF, Q3 - JCR, 0.738 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/j.1472-765X.2005.01793.x

Citácie:
1. [1.1] OSEK, Jacek - LACHTARA, Beata - WIECZOREK, Kinga. Listeria monocytogenes in foods-From culture identification to whole-genome characteristics. In FOOD SCIENCE & NUTRITION, 2022, vol. 10, no. 9, pp. 2825-2854. ISSN 2048-7177. Dostupné na: https://doi.org/10.1002/fsn3.2910, Registrované v: WOS

ADCA254 OSLANCOVÁ, A. - JANEČEK, Štefan. Oligo-1,6-glucosidase and neopullulanase enzyme subfamilies from the a-amylase family defined by the fifth conserved sequence region. In Cellular and Molecular Life Sciences : (CMLS), 2002, vol. 59, p. 1945-1959. (2001: 4.539 - IF, karentované - CCC). (2002 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/PL00012517

Citácie:
1. [1.1] AHN, W.C. - AN, Y. - SONG, K.M. - PARK, K.H. - LEE, S.J. - OH, B.H. - PARK, J.T. - WOO, E.J. Dimeric architecture of maltodextrin glucosidase (MalZ) provides insights into the substrate recognition and hydrolysis mechanism. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, JAN 1 2022, vol. 586, p. 49-54. Dostupné na: https://doi.org/10.1016/j.bbrc.2021.11.070, Registrované v: WOS
2. [1.1] AROOB, I. - JAVED, M. - AHMAD, N. - ASLAM, M. - RASHID, N. Investigating the role of carbohydrate-binding module 34 in cyclomaltodextrinase from Geobacillus thermopakistaniensis: structural and functional analyses. In 3 BIOTECH. ISSN 2190-572X, JAN 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1007/s13205-021-03089-9, Registrované v: WOS
3. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101498, Registrované v: WOS
4. [1.1] LIU, Z.Y. - WU, G.G. - WU, H.W. Molecular cloning, and optimized production and characterization of recombinant cyclodextrin glucanotransferase from Bacillus sp. T1. In 3 BIOTECH. ISSN 2190-572X, MAR 2022, vol. 12, no. 3. Dostupné na:

https://doi.org/10.1007/s13205-022-03111-8, Registrované v: WOS

ADCA255 PACE, C.N. - HERBERT, E.J. - SHAW, K. - SCHELL, D. - BOTH, V. - KRAJČÍKOVÁ, Daniela - ŠEVČÍK, Jozef - WILSON, K.S. - DAUTER, Z. Conformational stability and thermodynamics of folding of ribonucleases Sa, Sa2, and Sa3. In Journal of Molecular Biology, 1998, vol. 279, p. 271-286. ISSN 0022-2836. Dostupné na: https://doi.org/10.1006/jmbi.1998.1760

Citácie:

1. [1.2] SHIRDEL, Akram - KHALIFEH, Khosrow. Spectroscopic methods to study protein folding kinetics: Methodology, data analysis, and interpretation of the results. In Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics, 2022-01-01, pp. 357-374. Dostupné na: https://doi.org/10.1016/B978-0-323-99127-8.00008-8, Registrované v: SCOPUS

ADCA256 PACE, C.N. - HORN, G. - HEBERT, E.J. - BECHERT, J. - SHAW, K. - URBÁNIKOVÁ, Ľubica - SCHOLTZ, J.M. - ŠEVČÍK, Jozef. Tyrosine hydrogen bonds make a large contribution to protein stability. In Journal of Molecular Biology, 2001, vol. 312, p. 393-404. ISSN 0022-2836. Dostupné na: https://doi.org/10.1006/jmbi.2001.4956

Citácie:

1. [1.1] ALVES, R. - PAZOS-GIL, M. - MEDINA-CARBONERO, M. - SANZ-ALCáZAR, A. - DELASPRE, F. - TAMARIT, J. Evolution of an Iron-Detoxifying Protein: Eukaryotic and Rickettsia Frataxins Contain a Conserved Site Which Is Not Present in Their Bacterial Homologues. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 21. Dostupné na: https://doi.org/10.3390/ijms232113151, Registrované v: WOS

2. [1.1] LAW, C.Y. - LAM, C.W. C-terminal truncated SPOP, a Janus-faced variant, causing a mixed type 1 and type 2 Nabais Sa-de Vries syndrome. In CLINICA CHIMICA ACTA. ISSN 0009-8981, OCT 1 2022, vol. 535, p. 187-194. Dostupné na: https://doi.org/10.1016/j.cca.2022.08.019, Registrované v: WOS

3. [1.1] SANEJOUAND, Y.H. At least three xenon binding sites in the glycine binding domain of the N-methyl D-aspartate receptor. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, JUL 30 2022, vol. 724. Dostupné na: https://doi.org/10.1016/j.abb.2022.109265, Registrované v: WOS

ADCA257 PANGALLO, Domenico - KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - ŠIMONOVIČOVÁ, A. - DE LEO, F. - URZI, C. Analysis and comparison of the microflora isolated from fresco surface and from surrounding air environment through molecular and biodegradative assays. In World journal of microbiology and biotechnology, 2012, vol. 28, p. 2015-2027. (2011: 1.532 - IF, Q3 - JCR, 0.609 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-012-1004-7

Citácie:

1. [1.1] FOMINA, M. - CUADROS, J. - PINZARI, F. - HRYSHCHENKO, N. - NAJORKA, J. - GAVRILENKO, M. - HONG, J.W. - GADD, G.M. Fungal transformation of mineral substrata of biodeteriorated medieval murals in Saint Sophia?s cathedral, Kyiv, Ukraine. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, NOV 2022, vol. 175., Registrované v: WOS

2. [1.1] GOMOIU, I. - COJOC, R. - RUGINESCU, R. - NEAGU, S. - ENACHE, M. - DUMBRAVICIAN, M. - OLTEANU, I. - RADVAN, R. - GHERVASE, L. The Susceptibility to Biodegradation of Some Consolidants Used in the Restoration of Mural Paintings. In APPLIED SCIENCES-BASEL. JUL 2022, vol. 12, no. 14., Registrované v: WOS

3. [1.1] GRBIC, M.L. - DIMKIC, I. - SAVKOVIC, Z. - STUPAR, M. - KNEZEVIC, A. - JELIKIC, A. - UNKOVIC, N. Mycobiome Diversity of the Cave Church of Sts. Peter and Paul in Serbia-Risk Assessment Implication for the Conservation of Rare Cavern Habitat Housing a Peculiar Fresco Painting. In JOURNAL OF FUNGI. DEC 2022, vol. 8, no. 12., Registrované v: WOS

4. [1.1] RAEISNIA, N. - AREFIAN, E. - AMOOZEGAR, M.A. Microbial Community of an 11th Century Manuscript by Both Culture-Dependent and -Independent Approaches. In MICROBIOLOGY. ISSN 0026-2617, JUN 2022, vol. 91, no. 3, p. 313-323., Registrované v: WOS

5. [1.1] SARIDAKI, A. - KATSIVELA, E. - GLYTSOS, T. - TSIAMIS, G. - VIOLAKI, E. - KALOUTSAKIS, A. - KALOGERAKIS, N. - LAZARIDIS, M. Identification of bacterial communities on different surface materials of museum artefacts using high throughput sequencing. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAR-APR 2022, vol. 54, p. 44-52., Registrované v: WOS

6. [1.1] WANG, Y. - WANG, C. - YANG, X.Y. - MA, K.X. - GUO, P.F. - SUN, Q.R. - JIA, S.L. - PAN, J. Analysis and control of fungal deterioration on the surface of pottery figurines unearthed from the tombs of the Western Han Dynasty. In FRONTIERS IN MICROBIOLOGY. AUG 15 2022, vol. 13., Registrované v: WOS

7. [1.1] ZUCCONI, L. - CANINI, F. - ISOLA, D. - CANEVA, G. Fungi Affecting Wall Paintings of Historical Value: A Worldwide Meta-Analysis of Their Detected Diversity. In APPLIED SCIENCES-BASEL. MAR 2022, vol. 12, no. 6., Registrované v: WOS

8. [1.2] FASI, Wu - YONG, Zhang - MIN, Su - DONGPENG, He - JIE, Li - HUYUAN, Feng. Advancement of biotechnology for the conservation and restoration of cultural heritage objects. In Sciences of Conservation and Archaeology, 2022-01-01, 34, 1, pp. 133-143. ISSN 10051538. Dostupné na: https://doi.org/10.16334/j.enki.en31-1652/k.20210302060, Registrované v: SCOPUS
9. [1.2] LJALJEVIĆ GRBIĆ, Milica - DIMKIĆ, Ivica - SAVKOVIĆ, Željko - STUPAR, Miloš - KNEŽEVIĆ, Aleksandar - JELIKIĆ, Aleksa - UNKOVIĆ, Nikola. Mycobiome Diversity of the Cave Church of Sts. Peter and Paul in Serbia—Risk Assessment Implication for the Conservation of Rare Cavern Habitat Housing a Peculiar Fresco Painting. In Journal of Fungi, 2022-12-01, 8, 12, pp. Dostupné na: https://doi.org/10.3390/jof8121263, Registrované v: SCOPUS
10. [1.2] PINNA, Daniela. Microbial growth and its effects on inorganic heritage materials. In Microorganisms in the Deterioration and Preservation of Cultural Heritage, 2021-05-05, pp. 3-35. Dostupné na: https://doi.org/10.1007/978-3-030-69411-1_1, Registrované v: SCOPUS

ADCA258 PANGALLO, Domenico** - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - ŠOLTYS, Katarína - BUČKOVÁ, Mária - KOREŇOVÁ, J. - BUDIŠ, J. - KUCHTA, T. Transcription activity of lactic acid bacterial proteolysis-related genes during cheese maturation. In Food microbiology, 2019, vol. 82, p. 416-425. (2018: 4.089 - IF, Q1 - JCR, 1.402 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0740-0020. Dostupné na: https://doi.org/10.1016/j.fm.2019.03.015

Citácie:

1. [1.1] ABARQUERO, D. - RENES, E. - COMBARROS-FUERTES, P. - FRESNO, J.M. - TORNADIJO, M.E. Evaluation of technological properties and selection of wild lactic acid bacteria for starter culture development. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, DEC 15 2022, vol. 171., Registrované v: WOS
2. [1.1] CARBONNE, C. - LABADIE, K. - CRUAUD, C. - BRUN, E. - BARBE, V. - MONNET, C. Metatranscriptomics of cheese microbial communities: Efficiency of RNA extraction from various cheese types and of mRNA enrichment. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, JUL 16 2022, vol. 373., Registrované v: WOS
3. [1.1] ZHOU, X.J. - LIU, Z.Q. - XIE, L. - LI, L.Y. - ZHOU, W.H. - ZHAO, L.Z. The Correlation Mechanism between Dominant Bacteria and Primary Metabolites during Fermentation of Red Sour Soup. In FOODS. FEB 2022, vol. 11, no. 3., Registrované v: WOS

ADCA259 PANGALLO, Domenico - ŠAKOVÁ, Nikoleta - KOREŇOVÁ, J. - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - VALIK, L. - KUCHTA, T. Microbial diversity and dynamics during the production of May bryndza cheese. In International journal of food microbiology, 2014, vol. 170, p. 38–43. (2013: 3.155 - IF, Q1 - JCR, 1.602 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0168-1605. Dostupné na: https://doi.org/10.1016/j.ijfoodmicro.2013.10.015

Citácie:

1. [1.1] BIELIK, V. - HRIC, I. - UGRAYOVá, S. - KUBANOVá, L. - PUTALA, M. - GRZNáR, L. - PENESOVá, A. - HAVRANOVá, A. - SARDZíKOVá, S. - GRENDAR, M. - BARANOVICOVá, E. - SOLTYS, K. - KOLISEK, M. Effect of High-intensity Training and Probiotics on Gut Microbiota Diversity in Competitive Swimmers: Randomized Controlled Trial. In SPORTS MEDICINE-OPEN. ISSN 2199-1170, DEC 2022, vol. 8, no. 1. Dostupné na: https://doi.org/10.1186/s40798-022-00453-8, Registrované v: WOS
2. [1.1] DIMOV, S.G. The unusual microbiota of the traditional Bulgarian dairy product Krokmach - A pilot metagenomics study. In INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY. ISSN 1364-727X, FEB 2022, vol. 75, no. 1, p. 139-149. Dostupné na: https://doi.org/10.1111/1471-0307.12809, Registrované v: WOS
3. [1.1] GERONIKOU, A. - LARSEN, N. - LILLEVANG, S.K. - JESPERSEN, L. Occurrence and Identification of Yeasts in Production of White-Brined Cheese. In MICROORGANISMS. JUN 2022, vol. 10, no. 6. Dostupné na: https://doi.org/10.3390/microorganisms10061079, Registrované v: WOS
4. [1.1] IZZO, L. - MIKUSOVA, P. - LOMBARDI, S. - SULYOK, M. - RITIENI, A. Analysis of Mycotoxin and Secondary Metabolites in Commercial and Traditional Slovak Cheese Samples. In TOXINS. FEB 2022, vol. 14, no. 2. Dostupné na: https://doi.org/10.3390/toxins14020134, Registrované v: WOS
5. [1.1] LAMARCHE, A. - LESSARD, M.H. - VIEL, C. - TURGEON, S.L. - ST-GELAIS, D. - LABRIE, S. Quantitative PCR reveals the frequency and distribution of 3 indigenous yeast species across a range of specialty cheeses. In JOURNAL OF DAIRY SCIENCE. ISSN 0022-0302, NOV 2022, vol. 105, no. 11, p. 8677-8687. Dostupné na: https://doi.org/10.3168/jds.2022-21949, Registrované v: WOS
6. [1.1] ZHAO, X.C. - ZHONG, Z.T. - HUA, Z.C. Estimation of the post-mortem interval by modelling the changes in oral bacterial diversity during decomposition. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, DEC 2022, vol. 133, no. 6, p. 3451-3464. Dostupné na: https://doi.org/10.1111/jam.15771, Registrované v: WOS
7. [1.2] NAJGEBAUER-LEJKO, Dorota - DOMAGAŁA, Jacek - WALCZYCKA, Maria.

Traditional Cheeses from the Malopolska Region. In Environmental History (Netherlands), 2022-01-01, 13, pp. 171-190. ISSN 22119019. Dostupné na: https://doi.org/10.1007/978-3-030-58092-6_11, Registrované v: SCOPUS

ADCA260 PANGALLO, Domenico - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - ŠAKOVÁ, Nikoleta - GRIVALSKÝ, Tomáš - CHOVANOVÁ, Katarína - ZEMÁNKOVÁ, Milina. Biodeterioration of epoxy resin: a microbial survey through culture-independent and culture-dependent approaches. In Environmental microbiology, 2015, vol. 17, iss. 2, p. 462–479. (2014: 6.201 - IF, Q1 - JCR, 2.862 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1462-2912. Dostupné na: https://doi.org/10.1111/1462-2920.12523

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.1] PAIVA, D.S. - FERNANDES, L. - TROVAO, J. - MESQUITA, N. - TIAGO, I. - PORTUGAL, A. Uncovering the Fungal Diversity Colonizing Limestone Walls of a Forgotten Monument in the Central Region of Portugal by High-Throughput Sequencing and Culture-Based Methods. In APPLIED SCIENCES-BASEL. OCT 2022, vol. 12, no. 20. Dostupné na: https://doi.org/10.3390/app122010650, Registrované v: WOS

3. [1.1] PARDI-COMENSOLI, L. - TONOLLA, M. - COLPO, A. - PALCZEWSKA, Z. - REVIKRISHNAN, S. - HEEB, M. - BRUNNER, I. - BARBEZAT, M. Microbial Depolymerization of Epoxy Resins: A Novel Approach to a Complex Challenge. In APPLIED SCIENCES-BASEL. JAN 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.3390/app12010466, Registrované v: WOS

4. [1.1] PHUKHAMSAKDA, C. - NILSSON, R.H. - BHUNJUN, C.S. - DE FARIAS, A.R.G. - SUN, Y.R. - WIJESINGHE, S.N. - RAZA, M. - BAO, D.F. - LU, L. - TIBPROMMA, S. - DONG, W. - TENNAKOON, D.S. - TIAN, X.G. - XIONG, Y.R. - KARUNARATHNA, S.C. - CAI, L. - LUO, Z.L. - WANG, Y. - MANAWASINGHE, I.S. - CAMPORESI, E. - KIRK, P.M. - PROMPUTTHA, I. - KUO, C.H. - SU, H.Y. - DOILOM, M. - LI, Y. - FU, Y.P. - HYDE, K.D. The numbers of fungi: contributions from traditional taxonomic studies and challenges of metabarcoding. In FUNGAL DIVERSITY. ISSN 1560-2745, MAY 2022, vol. 114, no. 1, SI, p. 327-386. Dostupné na: https://doi.org/10.1007/s13225-022-00502-3, Registrované v: WOS

5. [1.2] CAPPITELLI, Francesca - VILLA, Federica - SANMARTÍN, Patricia. Interactions of microorganisms and synthetic polymers in cultural heritage conservation. In International Biodeterioration and Biodegradation, 2021-09-01, 163, pp. ISSN 09648305. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105282, Registrované v: SCOPUS

6. [1.2] GHOSH, Puja - ROY, Sayan - BANIK, Ankit. Usage of microbes for the degradation of paint contaminated soil and water. In Microbes and Microbial Biotechnology for Green Remediation, 2022-01-01, pp. 601-617. Dostupné na: https://doi.org/10.1016/B978-0-323-90452-0.00041-4, Registrované v: SCOPUS

7. [1.2] ORJIAKOR, P. I. Optimization of biodegradation efficacy of acrylic-based paint contaminated soil by Alcaligenes faecalis. In Novel Research in Microbiology Journal, 2021-05-01, 5, 3, pp. 1269-1282. ISSN 25370286. Dostupné na: https://doi.org/10.21608/nrmj.2021.178307, Registrované v: SCOPUS

ADCA261 PANGALLO, Domenico - KRAKOVÁ, Lucia - CHOVANOVÁ, Katarína - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - ŠIMONOVIČOVÁ, A. Disclosing a crypt: Microbial diversity and degradation activity of the microflora isolated from funeral clothes of Cardinal Peter Pázmány. In Microbiological Research, 2013, vol. 168, p. 289-299. (2012: 1.993 - IF, Q3 - JCR, 0.786 - SJR, Q3 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2012.12.001

Citácie:

1. [1.1] FERREIRA, E.F. - MOURO, C. - SILVA, L. - GOUVEIA, I.C. Sustainable Packaging Material Based on PCL Nanofibers and Lavandula luisieri Essential Oil, to Preserve Museological Textiles. In POLYMERS. FEB 2022, vol. 14, no. 3. Dostupné na: https://doi.org/10.3390/polym14030597, Registrované v: WOS

2. [1.1] KAVKLER, K. - DEMSAR, A. - GOSTINCAR, C. - ZALAR, P. - TAVZES, C. Discolouration of fungal stains on cotton textiles. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, AUG 2022, vol. 172. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105427, Registrované v: WOS

3. [1.1] MADSEN, A.M. - RASMUSSEN, P.U. - FREDERIKSEN, M.W. Accumulation of microorganisms on work clothes of workers collecting different types of waste - A feasibility study. In WASTE MANAGEMENT. ISSN 0956-053X, FEB 15 2022, vol. 139, p. 250-257. Dostupné na: https://doi.org/10.1016/j.wasman.2021.12.031, Registrované v: WOS

4. [1.1] SOARES, F. - TROVAO, J. - PORTUGAL, A. Phototrophic and fungal communities

inhabiting the Roman cryptoporticus of the national museum Machado de Castro (UNESCO site, Coimbra, Portugal). In WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY. ISSN 0959-3993, SEP 2022, vol. 38, no. 9. Dostupné na: https://doi.org/10.1007/s11274-022-03345-x, Registrované v: WOS

5. [1.1] WANG, X. - HU, Y.L. - ZHANG, Z. - ZHANG, B.J. The application of thymol-loaded chitosan nanoparticles to control the biodeterioration of cultural heritage sites. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, JAN-FEB 2022, vol. 53, p. 206-211. Dostupné na: https://doi.org/10.1016/j.culher.2021.12.002, Registrované v: WOS

6. [1.1] ZHU, L. - FANG, Q. - LI, T.X. Distribution and diversity of organisms in tomb soil excavated in the laboratory: a case study of tomb M88 from Sujialong Cultural Property, China. In HERITAGE SCIENCE. ISSN 2050-7445, OCT 21 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.1186/s40494-022-00803-5, Registrované v: WOS

ADCA262 PANGALLO, Domenico - ŠIMONOVIČOVÁ, A. - CHOVANOVÁ, Katarína - FERIANC, Peter. Wooden art objects and the museum environment: identification and biodegradative characteristics of isolated microflora . In Letters in applied microbiology : international journal, 2007, vol. 45, no. 1, pp. 87-94. (2006: 1.593 - IF, Q3 - JCR, 0.792 - SJR, Q2 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0266-8254. Dostupné na: https://doi.org/10.1111/j.1472-765X.2007.02138.x

Citácie:

1. [1.1] BRANYSOVA, Tereza - DEMNEROVA, Katerina - DUROVIC, Michal - STIBOROVA, Hana. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE, 2022, vol. 55, no., pp. 245-260. ISSN 1296-2074. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.1] RANALLI, Giancarlo - ANDREOTTI, Alessia - COLOMBINI, Maria Perla - CORTI, Cristina - LIMA, Giuseppe - RAMPAZZI, Laura - SAVIANO, Gabriella - VITULLO, Domenico - PALMIERI, Davide - ZANARDINI, Elisabetta. Biodeterioration of carbographic ribbon: Isolation, identification of causal agents and forensic implications. In JOURNAL OF APPLIED MICROBIOLOGY, 2022, vol. 133, no. 3, pp. 1843-1856. ISSN 1364-5072. Dostupné na: https://doi.org/10.1111/jam.15668, Registrované v: WOS

3. [1.2] OMAR, Ali M. - ABDELMONIEM, Abdelmoniem M. - WEKEEL, Fatma El - TAHA, Ayman S. SPECTROSCOPIC and MOLECULAR INVESTIGATION of CHEOPS WOODEN BOAT for MICROBIAL DEGRADATION APPLYING PROPER. In Scientific Culture, 2022-01-01, 8, 1, pp. 115-127. ISSN 24080071. Dostupné na: https://doi.org/10.5281/zenodo.5717174, Registrované v: SCOPUS

ADCA263 PANGALLO, Domenico - DRAHOVSKÁ, H. - HARICHOVÁ, Janka - KARELOVÁ, Edita - CHOVANOVÁ, Katarína - ARADSKA, J. - FERIANC, Peter - TURŇA, Ján - TIMKO, Jozef. Evaluation of different PCR-based approaches for the identification and typing of environmental enterococci . In Antonie van Leeuwenhoek, 2008, vol. 93, no. 1-2, p. 193-203. (2007: 1.547 - IF, Q3 - JCR, 0.758 - SJR, Q1 - SJR). ISSN 0003-6072. Dostupné na: https://doi.org/10.1007/s10482-007-9193-z

Citácie:

1. [1.1] KETER, Mike T. - EL HALFAWY, Nancy M. - EL-NAGGAR, Moustafa Y. Incidence of virulence determinants and antibiotic resistance in lactic acid bacteria isolated from food products. In FUTURE MICROBIOLOGY, 2022, vol. 17, no. 5, pp. 325-337. ISSN 1746-0913. Dostupné na: https://doi.org/10.2217/fmb-2021-0053, Registrované v: WOS

ADCA264 PANGALLO, Domenico - CHOVANOVÁ, Katarína - MAKOVÁ, A. Identification of animal skin of historical parchments by polymerase chain reaction (PCR)-based methods. In Journal of Archaeological Science, 2010, vol. 37, p. 1202-1206. (2009: 1.847 - IF, Q1 - JCR, 1.254 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0305-4403. Dostupné na: https://doi.org/10.1016/j.jas.2009.12.018

Citácie:

1. [1.1] CAPPA, Federica - PINAR, Guadalupe - BRENNER, Simon - FRUEHMANN, Bernadette - WETTER, Wilfried - SCHREINER, Manfred - ENGEL, Patricia - MIKLAS, Heinz - STERFLINGER, Katja. The Kiev Folia: An interdisciplinary approach to unravelling the past of an ancient Slavonic manuscript. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION, 2022, vol. 167, no., pp. ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105342, Registrované v: WOS

2. [1.1] PINAR, Guadalupe - CAPPA, Federica - VETTER, Wilfried - SCHREINER, Manfred - MIKLAS, Heinz - STERFLINGER, Katja. Complementary Strategies for Deciphering the Information Contained in Ancient Parchment Documentary Materials. In APPLIED SCIENCES-BASEL, 2022, vol. 12, no. 20, pp. Dostupné na: https://doi.org/10.3390/app122010479, Registrované v: WOS

3. [1.1] ZHANG, Mingrui - HU, Yadi - LIU, Jie - PEI, Ying - TANG, Keyong - LEI, Yong.

Biodeterioration of collagen-based cultural relics: A review. In FUNGAL BIOLOGY REVIEWS, 2022, vol. 39, no., pp. 46-59. ISSN 1749-4613. Dostupné na: https://doi.org/10.1016/j.fbr.2021.12.005, Registrované v: WOS

ADCA265 PANGALLO, Domenico - CHOVANOVÁ, Katarína - ŠIMONOVIČOVÁ, Alexandra - FERIANC, Peter. Investigation of microbial community isolated from indoor artworks and air environment: identification, biodegradative abilities, and DNA typing. In Canadian journal of microbiology, 2009, vol. 55, p. 277-287. (2008: 1.102 - IF, Q3 - JCR, 0.543 - SJR, Q2 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0008-4166. Dostupné na: https://doi.org/10.1139/W08-136

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.1] GRBIC, M.L. - DIMKIC, I. - SAVKOVIC, Z. - STUPAR, M. - KNEZEVIC, A. - JELIKIC, A. - UNKOVIC, N. Mycobiome Diversity of the Cave Church of Sts. Peter and Paul in Serbia-Risk Assessment Implication for the Conservation of Rare Cavern Habitat Housing a Peculiar Fresco Painting. In JOURNAL OF FUNGI. DEC 2022, vol. 8, no. 12. Dostupné na: https://doi.org/10.3390/jof8121263, Registrované v: WOS

3. [1.1] NITIU, D.S. - MALLO, A.C. - SAPARRAT, M.C.N. PIGMENTS SYNTHESIZED BY DARK FUNGI AND THEIR IMPACT ON THE DETERIORATION OF DOCUMENTARY HERITAGE ON PAPER. In BOLETIN DE LA SOCIEDAD ARGENTINA DE BOTANICA. ISSN 1851-2372, JUN 2022, vol. 57, no. 2, p. 169-184. Dostupné na: https://doi.org/10.31055/1851.2372.v57.n2.36580, Registrované v: WOS

ADCA266 PASSARDI, F. - THEILER, G. - ZÁMOCKÝ, Marcel - COSIO, C. - ROUHIER, N. - TEIXERA, F. - MARGIS-PINHEIRO, M. - IOANNIDIS, V. - PENEL, C. - FALQUET, L. - DUNAND, C. PeroxiBase: The peroxidase database. In Phytochemistry, 2007, vol. 68, no. 12, p. 1605-1611. (2006: 2.417 - IF, Q1 - JCR, 1.087 - SJR, Q1 - SJR). ISSN 0031-9422. Dostupné na: https://doi.org/10.1016/j.phytochem.2007.04.005

Citácie:

1. [1.1] ABDIRAD, S. - WU, Y.Q. - GHORBANZADEH, Z. - TAZANGI, S.E. - AMIRKHANI, A. - FITZHENRY, M.J. - KAZEMI, M. - GHAFFARI, M.R. - KOOBAZ, P. - ZEINALABEDINI, M. - HABIBPOURMEHRABAN, F. - MASOOMI-ALADIZGEH, F. - ATWELL, B.J. - MIRZAEI, M. - SALEKDEH, G.H. - HAYNES, P.A. Proteomic analysis of the meristematic root zone in contrasting genotypes reveals new insights in drought tolerance in rice. In PROTEOMICS. ISSN 1615-9853, NOV 2022, vol. 22, no. 21. Dostupné na: https://doi.org/10.1002/pmic.202200100, Registrované v: WOS

2. [1.1] BELA, K. - RIYAZUDDIN, R. - CSISZáR, J. Plant Glutathione Peroxidases: Non-Heme Peroxidases with Large Functional Flexibility as a Core Component of ROS-Processing Mechanisms and Signalling. In ANTIOXIDANTS. AUG 2022, vol. 11, no. 8. Dostupné na: https://doi.org/10.3390/antiox11081624, Registrované v: WOS

3. [1.1] FAN, Y.P. - TANG, Z.M. - WEI, J.M. - YU, X.M. - GUO, H.H. - LI, T.T. - GUO, H.X. - ZHANG, L. - FAN, Y.J. - ZHANG, C.Y. - ZENG, F.C. Dynamic Transcriptome Analysis Reveals Complex Regulatory Pathway Underlying Induction and Dose Effect by Different Exogenous Auxin IAA and 2,4-D During in vitro Embryogenic Redifferentiation in Cotton. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, JUN 29 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fpls.2022.931105, Registrované v: WOS

4. [1.1] GAN, J.S. - BILAL, M. - LI, X.B. - SHAH, S.Z.H. - MOHAMED, B.A. - HADIBARATA, T. - CHENG, H.R. Peroxidases-based enticing biotechnological platforms for biodegradation and biotransformation of emerging contaminants. In CHEMOSPHERE. ISSN 0045-6535, NOV 2022, vol. 307, 3. Dostupné na: https://doi.org/10.1016/j.chemosphere.2022.136035, Registrované v: WOS

5. [1.1] JEONG, Y.J. - KIM, Y.C. - LEE, J.S. - KIM, D.G. - LEE, J.H. Reduced Expression of PRX2/ATPRX1, PRX8, PRX35, and PRX73 Affects Cell Elongation, Vegetative Growth, and Vasculature Structures in Arabidopsis thaliana. In PLANTS-BASEL. DEC 2022, vol. 11, no. 23. Dostupné na: https://doi.org/10.3390/plants11233353, Registrované v: WOS

6. [1.1] LIU, L.N. - QAMAR, S.A. - BILAL, M. - IQBAL, H.M.N. Broadening the Catalytic Role of Enzymes in Cosmeceutical Sector: A Robust Tool from White Biotechnology. In CATALYSIS LETTERS. ISSN 1011-372X, MAR 2022, vol. 152, no. 3, p. 707-719. Dostupné na: https://doi.org/10.1007/s10562-021-03678-6, Registrované v: WOS

7. [1.1] LIU, Y. - XIAO, X.Y. - LI, G.Z. - ZHU, C.L. - YANG, K.B. - FENG, X.H. - LOU, Y.F. - GAO, Z.M. Comprehensive Analyses of Simple Sequence Repeat (SSR) in Bamboo Genomes and Development of SSR Markers with Peroxidase Genes. In GENES. SEP 2022, vol. 13, no. 9.

Dostupné na: https://doi.org/10.3390/genes13091518, Registrované v: WOS
8. [1.1] MISHRA, S. - ABDAL-HAY, A. - RATHER, S.U. - TRIPATHI, R.M. - SHEKH, F.A. Recent Advances in Silver nanozymes: Concept, Mechanism, and Applications in Detection. In ADVANCED MATERIALS INTERFACES. ISSN 2196-7350, OCT 2022, vol. 9, no. 30. Dostupné na: https://doi.org/10.1002/admi.202200928, Registrované v: WOS
9. [1.1] SELLAMI, K. - COUVERT, A. - NASRALLAH, N. - MAACHI, R. - ABOUSEOUD, M. - AMRANE, A. Peroxidase enzymes as green catalysts for bioremediation and biotechnological applications: A review. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, FEB 1 2022, vol. 806, 2. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.150500, Registrované v: WOS
10. [1.1] VILAR, D.D. - BILAL, M. - BHARAGAVA, R.N. - KUMAR, A. - NADDA, A.K. - SALAZAR-BANDA, G.R. - EGUILUZ, K.I.B. - FERREIRA, L.F.R. Lignin-modifying enzymes: a green and environmental responsive technology for organic compound degradation. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, FEB 2022, vol. 97, no. 2, SI, p. 327-342. Dostupné na: https://doi.org/10.1002/jctb.6751, Registrované v: WOS
11. [1.1] WANG, L.R. - DU, M. - WANG, B. - DUAN, H.R. - ZHANG, B.Y. - WANG, D. - LI, Y. - WANG, J.L. Transcriptome analysis of halophyte Nitraria tangutorum reveals multiple mechanisms to enhance salt resistance. In SCIENTIFIC REPORTS. ISSN 2045-2322, AUG 18 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-17839-z, Registrované v: WOS
12. [1.2] AVCI DUMAN, Yonca. Three phase partitioning of plant peroxidases. In Three Phase Partitioning: Applications in Separation and Purification of Biological Molecules and Natural Products, 2021-01-01, pp. 155-174. Dostupné na: https://doi.org/10.1016/B978-0-12-824418-0.00007-2, Registrované v: SCOPUS
13. [1.2] KAMBLE, Asmita Deepak - SINGH, Harinder. Finding novel enzymes by in silico bioprospecting approach. In Value-Addition in Food Products and Processing Through Enzyme Technology, 2021-01-01, pp. 347-364. Dostupné na: https://doi.org/10.1016/B978-0-323-89929-1.00028-7, Registrované v: SCOPUS
14. [1.2] NAWAZ, Mohsin - ANJUM, Shakeel Ahmad - ASHRAF, Umair - AZEEM, Farrukh - WANG, Zhiyong. Antioxidant Defense System and Reactive Oxygen Species (ROS) Interplay in Plants Under Drought Condition. In Handbook of Climate Change Management: Research, Leadership, Transformation, 2021-01-01, 1, pp. 93-117. Dostupné na: https://doi.org/10.1007/978-3-030-57281-5_121, Registrované v: SCOPUS
15. [1.2] RAGAB, Menna M. - OTHMAN, Hanan A. - HASSABO, Ahmed G. Various Extraction Methods of Different Enzymes and their Potential Applications in Various Industrial Sector (a review). In Egyptian Journal of Chemistry, 2022-10-01, 65, 10, pp. 495-508. ISSN 04492285. Dostupné na: https://doi.org/10.21608/EJCHEM.2022.115484.5239, Registrované v: SCOPUS
16. [1.2] REYNOSO, Eduardo C. - ROMERO-GUIDO, Cynthia - REBOLLAR-PÉREZ, Georgette - TORRES, Eduardo. Enzymatic biosensors for the detection of water pollutants. In Nanomaterials for Biocatalysis, 2021-01-01, pp. 463-511. Dostupné na: https://doi.org/10.1016/B978-0-12-824436-4.00012-5, Registrované v: SCOPUS
17. [1.2] TRUJILLO, Madia - TAIRUM, Carlos A. - DE OLIVEIRA, Marcos Antonio - NETTO, Luis E.S. Thiol- and selenol-based peroxidases: Structure and catalytic properties. In Redox Chemistry and Biology of Thiols, 2022-01-01, pp. 277-305. Dostupné na: https://doi.org/10.1016/B978-0-323-90219-9.00008-X, Registrované v: SCOPUS
18. [1.2] ZAREI, Mahboubeh - RAHBAR, Mohammad Reza - NEGAHDARIPOUR, Manica. Interaction of indole-3-acetic acid with horseradish peroxidase as a potential anticancer agent: from docking to molecular dynamics simulation. In Journal of Biomolecular Structure and Dynamics, 2022-01-01, 40, 9, pp. 4188-4196. ISSN 07391102. Dostupné na: https://doi.org/10.1080/07391102.2020.1854118, Registrované v: SCOPUS

ADCA267 PASSARDI, F. - ZÁMOCKÝ, Marcel - FAVET, J. - JAKOPITSCH, C. - PENEL, C. - OBINGER, C. - DUNAND, C. Phylogenetic distribution of catalase-peroxidases: Are there patches of order in chaos?. In Gene, 2007, vol. 397, no. 1-2, pp. 101-113. (2006: 2.721 - IF, Q2 - JCR, 1.810 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2007.04.016

Citácie:
1. [1.1] ANAM, Giridhar Babu - GUDA, Dinneswara Reddy - AHN, Young-Ho. Impact of melatonin on the hydrogen peroxide treatment efficacy in Microcystis aeruginosa: Cell growth, oxidative stress response, and gene transcription. In CHEMOSPHERE, 2022, vol. 307, no., pp. ISSN 0045-6535. Dostupné na: https://doi.org/10.1016/j.chemosphere.2022.136036, Registrované v: WOS
2. [1.1] IDALIA VARGAS-MAYA, Nauru - OLMEDO-MONFIL, Vianey - HUMBERTO RAMIREZ-PRADO, Jorge - REYES-CORTES, Ruth - PADILLA-VACA, Felipe - FRANCO,

Bernardo. Catalases in the pathogenesis of Sporothrix schenckii research. In PEERJ, 2022, vol. 10, no., pp. ISSN 2167-8359. Dostupné na: https://doi.org/10.7717/peerj.14478, Registrované v: WOS
3. [1.1] PAPADIMITRIOU, Theodoti - KATSIAPI, Matina - STEFANIDOU, Natassa - PAXINOU, Aikaterini - POULIMENAKOU, Vasiliki - LASPIDOU, Chrysi S. - MOUSTAKA-GOUNI, Maria - KORMAS, Konstantinos A. Differential Effect of Hydroxen Peroxide omicron n Toxic Cyanobacteria of Hypertrophic Mediterranean Waterbodies. In SUSTAINABILITY, 2022, vol. 14, no. 1, pp. Dostupné na: https://doi.org/10.3390/su14010123, Registrované v: WOS
4. [1.1] PESTANA, Carlos J. - SANTOS, Allan A. - CAPELO-NETO, Jose - MELO, Vania M. M. - REIS, Kelly C. - OLIVEIRA, Samylla - ROGERS, Ricardo - PACHECO, Ana B. F. - HUI, Jianing - SKILLEN, Nathan C. - BARROS, Mario U. G. - EDWARDS, Christine - AZEVEDO, Sandra M. F. O. - ROBERTSON, Peter K. J. - IRVINE, John T. S. - LAWTON, Linda A. Suppressing cyanobacterial dominance by UV-LED TiO2-photocatalysis in a drinking water reservoir: A mesocosm study. In WATER RESEARCH, 2022, vol. 226, no., pp. ISSN 0043-1354. Dostupné na: https://doi.org/10.1016/j.watres.2022.119299, Registrované v: WOS
5. [1.1] SERVELLO, Francesco A. - FERNANDES, Rute - EDER, Matthias - HARRIS, Nathan - MARTIN, Olivier M. F. - OSWAL, Natasha - LINDBERG, Anders - DEROSIERS, Nohelly - SENGUPTA, Piali - STROUSTRUP, Nicholas - APFELD, Javier - PORTMAN, Douglas. Neuronal temperature perception induces specific defenses that enable C. elegans to cope with the enhanced reactivity of hydrogen peroxide at high temperature. In ELIFE, 2022, vol. 11, no., pp. ISSN 2050-084X. Dostupné na: https://doi.org/10.7554/eLife.78941, Registrované v: WOS
6. [1.2] NEIRA, Gonzalo - VERGARA, Eva - CORTEZ, Diego - HOLMES, David S. A large-scale multiple genome comparison of acidophilic archaea (pH ≤ 5.0) extends our understanding of oxidative stress responses in polyextreme environments. In Antioxidants, 2022-01-01, 11, 1, pp. Dostupné na: https://doi.org/10.3390/antiox11010059, Registrované v: SCOPUS
7. [1.2] RAI, Snigdha - SITTHER, Viji. Oxidative stress in cyanobacteria: Sources, mitigation, and defense. In Expanding Horizon of Cyanobacterial Biology, 2022-01-01, pp. 163-178. Dostupné na: https://doi.org/10.1016/B978-0-323-91202-0.00003-8, Registrované v: SCOPUS

ADCA268 PATASI, Csilla - GODOČÍKOVÁ, Jana - MICHLÍKOVÁ, Soňa - NIE, Y. - KÁČERIKOVÁ, Radka - KVÁLOVÁ, Katarína - RAUNSER, S. - FARKAŠOVSKÝ, Marian. The role of Bni5 in the regulation of septin higher-order structure formation. In Biological Chemistry, 2015, vol. 396, p. 1325-1337. (2014: 3.268 - IF, Q2 - JCR, 1.841 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1431-6730. Dostupné na: https://doi.org/10.1515/hsz-2015-0165

Citácie:
1. [1.1] AKHULI, D. - DHAR, A. - VIJI, A.S. - BHOJAPPA, B. - PALANI, S. ALIBY: ALFA Nanobody-Based Toolkit for Imaging and Biochemistry in Yeast. In MSPHERE. OCT 26 2022, vol. 7, no. 5. Dostupné na: https://doi.org/10.1128/msphere.00333-22, Registrované v: WOS
2. [1.1] IBANES, S. - EL-ALAOUI, F. - LAI-KEE-HIM, J. - CAZEVIEILLE, C. - HOH, F. - LYONNAIS, S. - BRON, P. - CIPELLETTI, L. - PICAS, L. - PIATTI, S. The Syp1/FCHo2 protein induces septin filament bundling through its intrinsically disordered domain. In CELL REPORTS. ISSN 2211-1247, DEC 6 2022, vol. 41, no. 10. Dostupné na: https://doi.org/10.1016/j.celrep.2022.111765, Registrované v: WOS

ADCA269 PAVLOVIĆ, Jelena - CAVALIERI, D. - MASTROMEI, G. - PANGALLO, Domenico - PERITO, B. - MARVASI, M.**. MinION technology for microbiome sequencing applications for the conservation of cultural heritage. In Microbiological Research, 2021, vol. 247, no. 126727. (2020: 5.415 - IF, Q1 - JCR, 1.254 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0944-5013. Dostupné na: https://doi.org/10.1016/j.micres.2021.126727

Citácie:
1. [1.1] AKACIN, I. - ERSOY, S. - DOLUCA, O. - GUNGORMUSLER, M. Comparing the significance of the utilization of next generation and third generation sequencing technologies in microbial metagenomics. In MICROBIOLOGICAL RESEARCH. ISSN 0944-5013, NOV 2022, vol. 264., Registrované v: WOS
2. [1.1] BENITEZ-PAEZ, A. - HARTSTRA, A.V. - NIEUWDORP, M. - SANZ, Y. Species- and strain-level assessment using rrn long-amplicons suggests donor';s influence on gut microbial transference via fecal transplants in metabolic syndrome subjects. In GUT MICROBES. ISSN 1949-0976, DEC 31 2022, vol. 14, no. 1., Registrované v: WOS
3. [1.1] TIMONCINI, A. - COSTANTINI, F. - BERNARDI, E. - MARTINI, C. - MUGNAI, F. - MANCUSO, F.P. - SASSONI, E. - OSPITALI, F. - CHIAVARI, C. Insight on bacteria communities in outdoor bronze and marble artefacts in a changing environment. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, DEC 1 2022, vol. 850., Registrované v: WOS
4. [1.1] WASSWA, F.B. - KASSAZA, K. - NIELSEN, K. - BAZIRA, J. MinION Whole-Genome Sequencing in Resource-Limited Settings: Challenges and Opportunities. In CURRENT CLINICAL MICROBIOLOGY REPORTS. ISSN 2196-5471, DEC 2022, vol. 9, no. 4, p. 52-59.,

Registrované v: WOS
5. [1.1] WERNER, D. - ACHARYA, K. - BLACKBURN, A. - ZAN, R.X. - PLAIMART, J. - ALLEN, B. - MGANA, S.M. - SABAI, S.M. - HALLA, F.F. - MASSAWA, S.M. - HAILE, A.T. - HIRUY, A.M. - MOHAMMED, J. - VINITNANTHARAT, S. - THONGSAMER, T. - PANTHA, K. - MOTA, C.R. - LOPES, B.C. MinION Nanopore Sequencing Accelerates Progress towards Ubiquitous Genetics in Water Research. In WATER. AUG 2022, vol. 14, no. 16., Registrované v: WOS

ADCA270 PEY, A.L. - MAJTÁN, Tomáš - SANCHEZ RUIZ, J.M. - KRAUS, J.P. Human cystathionine β-synthase (CBS) contains two classes of binding sites forS-adenosylmethionine (SAM): complex regulation of CBS activity and stability by SAM. In Biochemical Journal, 2013, vol. 449, p. 109–121. (2012: 4.654 - IF, Q1 - JCR, 3.122 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0264-6021. Dostupné na: https://doi.org/10.1042/BJ20120731

Citácie:

1. [1.1] AL-SADEQ, D.W. - THANASSOULAS, A. - ISLAM, Z. - KOLATKAR, P. - AL-DEWIK, N. - SAFIEH-GARABEDIAN, B. - NASRALLAH, G.K. - NOMIKOS, M. Pyridoxine non-responsive p.R336C mutation alters the molecular properties of cystathionine beta-synthase leading to severe homocystinuria phenotype. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, JUL 2022, vol. 1866, no. 7. Dostupné na: https://doi.org/10.1016/j.bbagen.2022.130148, Registrované v: WOS

2. [1.1] CONTER, C. - FRUNCILLO, S. - FAVRETTO, F. - FERNáNDEZ-RODRíGUEZ, C. - DOMINICI, P. - MARTíNEZ-CRUZ, L.A. - ASTEGNO, A. Insights into Domain Organization and Regulatory Mechanism of Cystathionine Beta-Synthase from Toxoplasma gondii. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. AUG 2022, vol. 23, no. 15. Dostupné na: https://doi.org/10.3390/ijms23158169, Registrované v: WOS

3. [1.1] KALECKY, K. - ASHCRAFT, P. - BOTTIGLIERI, T. One-Carbon Metabolism in Alzheimer';s Disease and Parkinson';s Disease Brain Tissue. In NUTRIENTS. FEB 2022, vol. 14, no. 3. Dostupné na: https://doi.org/10.3390/nu14030599, Registrované v: WOS

4. [1.1] MENEZO, Y. - ELDER, K. - CLEMENT, P. - CLEMENT, A. - PATRIZIO, P. Biochemical Hazards during Three Phases of Assisted Reproductive Technology: Repercussions Associated with Epigenesis and Imprinting. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. AUG 2022, vol. 23, no. 16. Dostupné na: https://doi.org/10.3390/ijms23168916, Registrované v: WOS

5. [1.1] SHOVELLER, A.K. - PEZZALI, J.G. - HOUSE, J.D. - BERTOLO, R.F. - PENCHARZ, P.B. - BALL, R.O. Methionine and cysteine oxidation are regulated in a dose dependent manner by dietary Cys intake in neonatal piglets receiving enteral nutrition. In PLOS ONE. ISSN 1932-6203, OCT 27 2022, vol. 17, no. 10. Dostupné na: https://doi.org/10.1371/journal.pone.0275760, Registrované v: WOS

6. [1.1] WISCHHUSEN, P. - HERAUD, C. - SKJæRVEN, K. - KAUSHIK, S.J. - FAUCONNEAU, B. - PRABHU, P.A.J. - FONTAGNé-DICHARRY, S. Long-term effect of parental selenium supplementation on the one-carbon metabolism in rainbow trout (Oncorhynchus mykiss) fry exposed to hypoxic stress. In BRITISH JOURNAL OF NUTRITION. ISSN 0007-1145, JAN 14 2022, vol. 127, no. 1, p. 23-34. Dostupné na: https://doi.org/10.1017/S000711452100074X, Registrované v: WOS

7. [1.1] WU, X. - QIN, K.L. - IROEGBU, C.D. - XIANG, K. - PENG, J. - GUO, J.J. - YANG, J.F. - FAN, C.M. Genetic analysis of potential biomarkers and therapeutic targets in ferroptosis from coronary artery disease. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, APR 2022, vol. 26, no. 8, p. 2177-2190. Dostupné na: https://doi.org/10.1111/jcmm.17239, Registrované v: WOS

ADCA271 PFISTERER, K. - FORSTER, F. - PASTER, W. - SUPPER, V. - OHRADANOVA-REPIC, A. - ECKERSTORFER, P. - ZWIRZITZ, A. - DONNER, C. - BOULEGUE, C. - SCHILLER, H.B. - ONDROVIČOVÁ, Gabriela - ACUTO, O. - STOCKINGER, H. - LEKSA, Vladimír. The Late Endosomal Transporter CD222 Directs the Spatial Distribution and Activity of Lck. In Journal of Immunology, 2014, vol. 193, no. 6, p. 2718-2732. (2013: 5.362 - IF, Q1 - JCR, 3.844 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.1303349

Citácie:

1. [1.1] TIBBS, E. - CAO, X.F. Emerging Canonical and Non-Canonical Roles of Granzyme B in Health and Disease. In CANCERS. MAR 2022, vol. 14, no. 6. Dostupné na: https://doi.org/10.3390/cancers14061436, Registrované v: WOS

2. [1.1] ZHONG, Y. - REN, X.Y. - CAO, X. - XU, Y.L. - SONG, Y. - ZHOU, Y.D. - MAO, F. - SHEN, S.J. - WANG, Z. - SUN, Q. Insulin-like growth factor 2 receptor is a key immune-related gene that is correlated with a poor prognosis in patients with triple-negative breast cancer: A bioinformatics analysis. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, OCT 18 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fonc.2022.871786, Registrované v: WOS

ADCA272 PIETRZAK, K. - OTLEWSKA, A. - DANIELEWICZ, D. - DYBKA, K. - PANGALLO, Domenico - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - SCHOLTZ, V. - ĎUROVIČ, M. - SURMA-ŚLUSARSKA, B. - DEMNEROVA, K. - GUTAROWSKA, B. Disinfection of archival documents using thyme essential oil, silver nanoparticles misting and low temperature plasma. In Journal of cultural heritage, 2017, vol. 24, p. 69-77. (2016: 1.838 - IF, Q2 - JCR, 0.582 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 1296-2074. Dostupné na: https://doi.org/10.1016/j.culher.2016.10.011

Citácie:

1. [1.1] HAN, F. - LANG, C.H. - QIU, Y.P. Cleaning behavior based on waste textile before resource conversion and its challenges in China - A comprehensive review. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, OCT 10 2022, vol. 370. Dostupné na: https://doi.org/10.1016/j.jclepro.2022.133509, Registrované v: WOS

2. [1.1] LITE, M.C. - CONSTANTINESCU, R.R. - TANASESCU, E.C. - IORDACHE, O.G. - BADEA, N. Textile artefacts conservation using nanomaterials - Review. In INDUSTRIA TEXTILA. ISSN 1222-5347, 2022, vol. 73, no. 6, p. 607-613. Dostupné na: https://doi.org/10.35530/IT.073.06.202263, Registrované v: WOS

3. [1.1] MENICUCCI, F. - PALAGANO, E. - MICHELOZZI, M. - CENCETTI, G. - RAIO, A. - BACCHI, A. - MAZZEO, P.P. - CUZMAN, O.A. - SIDOTI, A. - GUARINO, S. - BASILE, S. - RICCOBONO, O. - PERI, E. - VIZZA, F. - IENCO, A. Effects of trapped-into-solids volatile organic compounds on paper biodeteriogens. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, OCT 2022, vol. 174. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105469, Registrované v: WOS

4. [1.1] POP, D.M. - TIMAR, M.C. - VARODI, A.M. - BELDEAN, E.C. AN EVALUATION OF CLOVE (Eugenia caryophyllata) ESSENTIAL OIL AS A POTENTIAL ALTERNATIVE ANTIFUNGAL WOOD PROTECTION SYSTEM FOR CULTURAL HERITAGE CONSERVATION. In MADERAS-CIENCIA Y TECNOLOGIA. ISSN 0717-3644, 2022, vol. 24, p. 1-16. Dostupné na: https://doi.org/10.4067/s0718-221x2022000100411, Registrované v: WOS

ADCA273 PIKNOVA, L. - PANGALLO, Domenico - KUCHTA, T. A novel real-time polymerase chain reaction (PCR) method for the detection of hazelnuts in food . In European Food Research and Technology, 2008, vol. 226, p. 1155-1158. (2007: 1.159 - IF, Q2 - JCR, 0.714 - SJR, Q1 - SJR). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-007-0644-6

Citácie:

1. [1.2] NEGI, Aditi - LAKSHMI, P. - PRABA, K. - MEENATCHI, R. - PARE, Akash. Detection of food adulterants in different foodstuff. In Food Chemistry: The Role of Additives, Preservatives and Adulteration, 2021-12-16, pp. 117-164. Dostupné na: https://doi.org/10.1002/9781119792130.ch5, Registrované v: SCOPUS

ADCA274 PINAR, G. - KRAKOVÁ, Lucia - PANGALLO, Domenico - PIOMBINO-MASCALI, D. - MAIXNER, F. - ZINK, A. - STERFLINGER, K. Halophilic bacteria are colonizing the exhibition areas of the Capuchin Catacombs in Palermo, Italy. In Extremophiles, 2014, vol. 18, p. 677-691. (2013: 2.174 - IF, Q3 - JCR, 0.978 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1431-0651. Dostupné na: https://doi.org/10.1007/s00792-014-0649-6

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS

2. [1.2] BIANUCCI, Raffaella - GALASSI, Francesco M. - LANZA, Tiziana - MATTUTINO, Grazia - NERLICH, Andreas G. What lies behind the embalmed body of Rosalia Lombardo (1918-1920)? In Italian Journal of Anatomy and Embryology, 2022-09-01, 126, 1, pp. 5-13. ISSN 11226714. Dostupné na: https://doi.org/10.36253/ijae-13771, Registrované v: SCOPUS

ADCA275 PLANÝ, Matej - PINZARI, F.** - ŠOLTÝS, K. - KRAKOVÁ, Lucia - CORNISH, L. - PANGALLO, Domenico - JUNGBLUT, A.D. - LITTLE, B. Fungal-induced atmospheric iron corrosion in an indoor environment. In International Biodeterioration & Biodegradation, 2021, vol. 159, no. 105204. (2020: 4.320 - IF, Q2 - JCR, 1.103 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105204

Citácie:

1. [1.1] JIANG, C.M. - YANG, S.X. - GUO, D. - SONG, P. - TIAN, G. - WANG, Y. - TIAN, Y.Q. - SHAO, D.Y. - SHANG, L. - SHI, J.L. Simulated Microgravity Accelerates Alloy Corrosion by Aspergillus sp. via the Enhanced Production of Organic Acids. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, OCT 11 2022, vol. 88, no. 19., Registrované v: WOS

2. [1.1] RABBACHIN, L. - PINAR, G. - NIR, I. - KUSHMARO, A. - PAVAN, M.J. - EITENBERGER, E. - WALDHERR, M. - GRAF, A. - STERFLINGER, K. A Multi-Analytical

Approach to Infer Mineral-Microbial Interactions Applied to Petroglyph Sites in the Negev Desert of Israel. In APPLIED SCIENCES-BASEL. JUL 2022, vol. 12, no. 14., Registrované v: WOS

ADCA276 POSPÍŠIL, J. - VÍTOVSKÁ, D. - KOFROŇOVÁ, Olga - MUCHOVÁ, Katarína - ŠANDEROVÁ, H. - HUBÁLEK, M. - ŠIKOVÁ, M. - MODRÁK, M. - BENADA, O.** - BARÁK, Imrich - KRÁSNY, L. Bacterial nanotubes as a manifestation of cell death. In Nature Communications, 2020, vol. 11, no. 4963. (2019: 12.121 - IF, Q1 - JCR, 5.569 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-020-18800-2

Citácie:

1. [1.1] AHMED, F. - MIRANI, Z.A. - AHMED, A. - UROOJ, S. - KHAN, F.Z. - SIDDIQI, A. - KHAN, M.N. - IMDAD, M.J. - ULLAH, A. - KHAN, A.B. - ZHAO, Y. Nanotubes Formation in P. aeruginosa. In CELLS. NOV 2022, vol. 11, no. 21., Registrované v: WOS

2. [1.1] ALFEI, S. - SCHITO, G.C. Nanotubes: Carbon-Based Fibers and Bacterial Nano-Conduits Both Arousing a Global Interest and Conflicting Opinions. In FIBERS. SEP 2022, vol. 10, no. 9., Registrované v: WOS

3. [1.1] BARREIRA, D.D. - LAPAQUETTE, P. - DUCASSOU, J.N. - COUTE, Y. - GUZZO, J. - RIEU, A. Spontaneous Prophage Induction Contributes to the Production of Membrane Vesicles by the Gram-Positive Bacterium Lacticaseibacillus casei BL23. In MBIO. ISSN 2150-7511, OCT 26 2022, vol. 13, no. 5., Registrované v: WOS

4. [1.1] FILLOUX, A. Bacterial protein secretion systems: Game of types. In MICROBIOLOGY-SGM. ISSN 1350-0872, MAY 2022, vol. 168, no. 5., Registrované v: WOS

5. [1.1] GAO, Z.Q. - ZHANG, E.D. - ZHAO, H. - XIA, S.P. - BAI, H.T. - HUANG, Y.M. - LV, F.T. - LIU, L.B. - WANG, S. Bacteria-Mediated Intracellular Click Reaction for Drug Enrichment and Selective Apoptosis of Drug-Resistant Tumor Cells. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, MAR 16 2022, vol. 14, no. 10, p. 12106-12115., Registrované v: WOS

6. [1.1] JING, H.R. - SAED, B. - PALMAI, M. - GUNASEKARA, H. - SNEE, P.T. - HU, Y.S. Fluorescent Artificial Antigens Revealed Extended Membrane Networks Utilized by Live Dendritic Cells for Antigen Uptake. In NANO LETTERS. ISSN 1530-6984, MAY 25 2022, vol. 22, no. 10, p. 4020-4027., Registrované v: WOS

7. [1.1] MAO, H.L. - GUO, J.N. - ZHOU, J.M. - SHI, J. - CUI, H.Q. - SHI, R.W. - YAO, J.R. - FANG, X. - WANG, B. - YAN, F. Antimicrobial poly(ionic liquid)-induced bacterial nanotube formation and drug-resistance spread. In BIOMATERIALS SCIENCE. ISSN 2047-4830, NOV 8 2022, vol. 10, no. 22, p. 6460-6471., Registrované v: WOS

8. [1.1] YASUDA, M. - YAMAMOTO, T. - NAGAKUBO, T. - MORINAGA, K. - OBANA, N. - NOMURA, N. - TOYOFUKU, M. Phage Genes Induce Quorum Sensing Signal Release through Membrane Vesicle Formation. In MICROBES AND ENVIRONMENTS. ISSN 1342-6311, 2022, vol. 37, no. 1., Registrované v: WOS

ADCA277 POTUCKOVA, L. - KELEMEN, G.H. - FINDLAY, K.C. - LONETTO, M.A. - BUTTNER, M.J. - KORMANEC, Ján. A new RNA polymerase sigma factor, sigmaF, is required for the late stages of morphological differentiation in Streptomyces spp. In Molecular Microbiology, 1995, vol. 17, p. 37-48. ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/j.1365-2958.1995.mmi_17010037.x

Citácie:

1. [1.1] OTANI, H. - UDWARY, D.W. - MOUNCEY, N.J. Comparative and pangenomic analysis of the genus Streptomyces. In SCIENTIFIC REPORTS. ISSN 2045-2322, NOV 7 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-21731-1, Registrované v: WOS

2. [1.1] SANTOS, L.D.F. - CARATY-PHILIPPE, L. - DARBON, E. - PERNODET, J.L. Marker-Free Genome Engineering in Amycolatopsis Using the pSAM2 Site-Specific Recombination System. In MICROORGANISMS. APR 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.3390/microorganisms10040828, Registrované v: WOS

ADCA278 PROBST, O.C. - PUXBAUM, V. - SVOBODA, B. - LEKSA, Vladimír - STOCKINGER, H. - MIKULA, M. - MIKULITS, W. - MACH, L. The mannose 6-phosphate/insulin-like growth factor II receptor restricts the tumourigenicity and invasiveness of squamous cell carcinoma cells. In International journal of cancer, 2009, vol. 124, p. 2559-2567. (2008: 4.734 - IF, Q1 - JCR, 2.368 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0020-7136. Dostupné na: https://doi.org/10.1002/ijc.24236

Citácie:

1. [1.1] YOUSAF, Tanzeel - SUN, Yuting - NAZ, Wajeeha - LIU, Yang - XU, Jiaqi - YUAN, Sen - WU, Kangwei - WANG, Min - WANG, Jun - GUO, Mingxiong - SUN, Guihong. Multiomics Analysis of Endocytosis upon HBV Infection and Identification of SCAMP1 as a Novel Host Restriction Factor against HBV Replication. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 4, pp. Dostupné na: https://doi.org/10.3390/ijms23042211, Registrované v: WOS

ADCA279 PUSPASARI, F. - RADJASA, O.K. - NOER, A.S. - NURACHMAN, Z. - SYAH, Y.M. - VAN DER MAAREL, M. - DIJKHUIZEN, L. - JANEČEK, Štefan - NATALIA, D. Raw starch–degrading α-amylase from Bacillus aquimaris MKSC 6.2: isolation and expression of the gene, bioinformatics and biochemical characterization of the recombinant enzyme. In Journal of Applied Microbiology, 2013, vol. 114, p. 108–120. (2012: 2.196 - IF, Q2 - JCR, 0.961 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1364-5072. Dostupné na: https://doi.org/10.1111/jam.12025

Citácie:

1. [1.1] CAKMAK, U. - TUNCAY, F.O. - KOLCUOGLU, Y. Cold active α-amylase obtained from Cladophora hutchinsiae-Purification, biochemical characterization and some potential applications. In FOOD BIOSCIENCE. ISSN 2212-4292, DEC 2022, vol. 50, A. Dostupné na: https://doi.org/10.1016/j.fbio.2022.102078, Registrované v: WOS

2. [1.1] LEKAKARN, H. - BUNTERNGSOOK, B. - PAJONGPAKDEEKUL, N. - PRONGJIT, D. - CHAMPREDA, V. A novel low temperature active maltooligosaccharides-forming amylase from Bacillus koreensis HL12 as biocatalyst for maltooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.1007/s13205-022-03188-1, Registrované v: WOS

3. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

4. [1.2] ROY, Jetendra Kumar - ARUMUGAM, Nanthakumar - RANJAN, Bibhuti - PURI, Adarsh Kumar - MUKHERJEE, Ashis Kumar - SINGH, Suren - PILLAI, Santhosh. An Overview of Raw Starch Digesting Enzymes and Their Applications in Biofuel Development. In Bioprospecting of Enzymes in Industry, Healthcare and Sustainable Environment, 2021-01-01, pp. 49-85. Dostupné na: https://doi.org/10.1007/978-981-33-4195-1_3, Registrované v: SCOPUS

ADCA280 PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - KRAKOVÁ, Lucia - PANGALLO, Domenico - KOZICS, Katarína. The antibacterial and antifungal activity of six essential oils and their cyto/genotoxicity to human HEL 12469 cells. In Scientific Reports, 2017, vol. 7, no. 1, art. no. 8211. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-08673-9 (VEGA 2/0027/16 : Antioxidačné, antikarcinogénne a fotoprotektívne účinky levanduľového oleja in vitro)

Citácie:

1. [1.1] ALEXA, V.T. - GALUSCAN, A. - SOICA, C.M. - COZMA, A. - CORICOVAC, D. - BORCAN, F. - POPESCU, I. - MIOC, A. - SZUHANEK, C. - DEHELEAN, C.A. - JUMANCA, D. In Vitro Assessment of the Cytotoxic and Antiproliferative Profile of Natural Preparations Containing Bergamot, Orange and Clove Essential Oils. In MOLECULES. FEB 2022, vol. 27, no. 3. Dostupné na: https://doi.org/10.3390/molecules27030990, Registrované v: WOS

2. [1.1] BOTA, V. - SUMALAN, R.M. - OBISTIOIU, D. - NEGREA, M. - COCAN, I. - POPESCU, I. - ALEXA, E. Study on the Sustainability Potential of Thyme, Oregano, and Coriander Essential Oils Used as Vapours for Antifungal Protection of Wheat and Wheat Products. In SUSTAINABILITY. APR 2022, vol. 14, no. 7. Dostupné na: https://doi.org/10.3390/su14074298, Registrované v: WOS

3. [1.1] CAI, J. - YAN, R. - SHI, J.C. - CHEN, J. - LONG, M. - WU, W.D. - KUCA, K. Antifungal and mycotoxin detoxification ability of essential oils: A review. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, JAN 2022, vol. 36, no. 1, p. 62-72. Dostupné na: https://doi.org/10.1002/ptr.7281, Registrované v: WOS

4. [1.1] CARRASCAL-HERNáNDEZ, D.C. - FLóREZ-LóPEZ, E. - PERALTA-RUIZ, Y. - CHAVES-LóPEZ, C. - GRANDE-TOVAR, C.D. Eco-Friendly Biocontrol Strategies of Alternaria Phytopathogen Fungus: A Focus on Gene-Editing Techniques. In AGRICULTURE-BASEL. OCT 2022, vol. 12, no. 10. Dostupné na: https://doi.org/10.3390/agriculture12101722, Registrované v: WOS

5. [1.1] CHRISTOFOLI, M. - COSTA, E.C.C. - PEIXOTO, M.F. - ALVES, C.C.F. - COSTA, A.C. - FERNANDES, J.B. - FORIM, M.R. - ARAúJO, W.L. - CAZAL, C.D. Nanoparticles Loaded with Essential Oil from Zanthoxylum riedelianum Engl. Leaves: Characterization and Effects on Bemisia tabaci Middle-East Asia Minor 1. In NEOTROPICAL ENTOMOLOGY. ISSN 1519-566X, OCT 2022, vol. 51, no. 5, p. 761-776. Dostupné na: https://doi.org/10.1007/s13744-022-00980-9, Registrované v: WOS

6. [1.1] D';AQUILA, P. - PAPARAZZO, E. - CRUDO, M. - BONACCI, S. - PROCOPIO, A. - PASSARINO, G. - BELLIZZI, D. Antibacterial Activity and Epigenetic Remodeling of Essential Oils from Calabrian Aromatic Plants. In NUTRIENTS. JAN 2022, vol. 14, no. 2. Dostupné na: https://doi.org/10.3390/nu14020391, Registrované v: WOS

7. [1.1] DAS, R. - SARMA, K. - CHOUDHURY, H. - SARMA, D. In vitro Study on Antibacterial

Efficacy of Essential Oil and Major Compounds from Rhizomes of Curcuma aromatica Salisb. Against Two Virulent Aeromonads of Farmed Channa punctata. In JOURNAL OF ESSENTIAL OIL BEARING PLANTS. ISSN 0972-060X, NOV 2 2022, vol. 25, no. 6, p. 1208-1220. Dostupné na: https://doi.org/10.1080/0972060X.2022.2155074, Registrované v: WOS

8. [1.1] DUTT, Y. - PANDEY, R.P. - DUTT, M. - GUPTA, A. - VIBHUTI, A. - RAJ, V.S. - CHANG, C.M. - PRIYADARSHINI, A. Synthesis and Biological Characterization of Phyto-Fabricated Silver Nanoparticles from Azadirachta indica. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, AUG 2022, vol. 18, no. 8, p. 2022-2057. Dostupné na: https://doi.org/10.1166/jbn.2022.3402, Registrované v: WOS

9. [1.1] FENG, L.Y. - XU, L.X. - LI, X.J. - XUE, J.H. - LI, T.T. - DUAN, X.W. A Combined Analysis of Transcriptome and Proteome Reveals the Inhibitory Mechanism of a Novel Oligosaccharide Ester against Penicillium italicum. In JOURNAL OF FUNGI. FEB 2022, vol. 8, no. 2. Dostupné na: https://doi.org/10.3390/jof8020111, Registrované v: WOS

10. [1.1] FODA, A.M. - KALABA, M.H. - EL-SHERBINY, G.M. - MOGHANNEM, S.A. - EL-FAKHARANY, E.M. Antibacterial activity of essential oils for combating colistin-resistant bacteria. In EXPERT REVIEW OF ANTI-INFECTIVE THERAPY. ISSN 1478-7210, OCT 3 2022, vol. 20, no. 10, p. 1351-1364. Dostupné na: https://doi.org/10.1080/14787210.2022.2101997, Registrované v: WOS

11. [1.1] GHEORGHITA, D. - ROBU, A. - ANTONIAC, A. - ANTONIAC, I. - DITU, L.M. - RAICIU, A.D. - TOMESCU, J. - GROSU, E. - SACELEANU, A. In Vitro Antibacterial Activity of Some Plant Essential Oils against Four Different Microbial Strains. In APPLIED SCIENCES-BASEL. OCT 2022, vol. 12, no. 19. Dostupné na: https://doi.org/10.3390/app12199482, Registrované v: WOS

12. [1.1] HASHEMI, S.M.B. - JAFARPOUR, D. - GHOLAMHOSSEINPOUR, A. Antimicrobial activity of Carum copticum and Satureja khuzestanica essential oils and acetic acid in vapor phase at different relative humidities and temperatures in peanuts. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, FEB 2022, vol. 46, no. 2. Dostupné na: https://doi.org/10.1111/jfpp.16269, Registrované v: WOS

13. [1.1] HULANKOVA, R. The Influence of Liquid Medium Choice in Determination of Minimum Inhibitory Concentration of Essential Oils against Pathogenic Bacteria. In ANTIBIOTICS-BASEL. ISSN 2079-6382, FEB 2022, vol. 11, no. 2. Dostupné na: https://doi.org/10.3390/antibiotics11020150, Registrované v: WOS

14. [1.1] LI, Y. - LIU, S.T. - ZHAO, C. - ZHANG, Z. - NIE, D.C. - TANG, W.X. - LI, Y.L. The Chemical Composition and Antibacterial and Antioxidant Activities of Five Citrus Essential Oils. In MOLECULES. OCT 2022, vol. 27, no. 20. Dostupné na: https://doi.org/10.3390/molecules27207044, Registrované v: WOS

15. [1.1] LóPEZ-BARONA, P. - VERDú-EXPóSITO, C. - MARTíN-PéREZ, T. - GóMEZ-CASANOVA, N. - LOZANO-CRUZ, T. - ORTEGA, P. - GóMEZ, R. - PéREZ-SERRANO, J. - HEREDERO-BERMEJO, I. Amoebicidal activity of cationic carbosilane dendrons derived with 4-phenylbutyric acid against Acanthamoeba griffini and Acanthamoeba polyphaga trophozoites and cysts. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 2 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-19200-w, Registrované v: WOS

16. [1.1] MAN, A. - MARE, A.D. - MARES, M. - RUTA, F. - PRIBAC, M. - MAIER, A.C. - CIGHIR, A. - CIUREA, C.N. Antifungal and anti-virulence activity of six essential oils against important Candida species - a preliminary study. In FUTURE MICROBIOLOGY. ISSN 1746-0913, JUL 2022, vol. 17, no. 10, p. 737-753. Dostupné na: https://doi.org/10.2217/fmb-2021-0296, Registrované v: WOS

17. [1.1] MURUGAN, D. - RANGASAMY, L. The use of antimicrobial biomaterials as a savior from post-operative vascular graft-related infections: A review. In RESULTS IN ENGINEERING. ISSN 2590-1230, DEC 2022, vol. 16. Dostupné na: https://doi.org/10.1016/j.rineng.2022.100662, Registrované v: WOS

18. [1.1] NAZAR, N. - HOWARD, C. - SLATER, A. - SGAMMA, T. Challenges in Medicinal and Aromatic Plants DNA Barcoding-Lessons from the Lamiaceae. In PLANTS-BASEL. JAN 2022, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/plants11010137, Registrované v: WOS

19. [1.1] RAFIEE, S. - RAMEZANIAN, A. - MOSTOWFIZADEH-GHALAMFARSA, R. - NIAKOUSARI, M. - SAHARKHIZ, M.J. - YAHIA, E. Nano-emulsion of denak (Oliveria decumbens Vent.) essential oil: ultrasonic synthesis and antifungal activity against Penicillium digitatum. In JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION. ISSN 2193-4126, FEB 2022, vol. 16, no. 1, p. 324-331. Dostupné na: https://doi.org/10.1007/s11694-021-01163-7, Registrované v: WOS

20. [1.1] ROMO-RICO, J. - KRISHNA, S.M. - BAZAKA, K. - GOLLEDGE, J. - JACOB, M.V. Potential of plant secondary metabolite-based polymers to enhance wound healing. In ACTA

BIOMATERIALIA. ISSN 1742-7061, JUL 15 2022, vol. 147, p. 34-49. Dostupné na: https://doi.org/10.1016/j.actbio.2022.05.043, Registrované v: WOS
21. [1.1] ROMO-RICO, J. - KRISHNA, S.M. - GOLLEDGE, J. - HAYLES, A. - VASILEV, K. - JACOB, M.V. Plasma polymers from oregano secondary metabolites: Antibacterial and biocompatible plant-based polymers. In PLASMA PROCESSES AND POLYMERS. ISSN 1612-8850, JUL 2022, vol. 19, no. 7, SI. Dostupné na: https://doi.org/10.1002/ppap.202100220, Registrované v: WOS
22. [1.1] SALANTA, L.C. - CROPOTOVA, J. An Update on Effectiveness and Practicability of Plant Essential Oils in the Food Industry. In PLANTS-BASEL. OCT 2022, vol. 11, no. 19. Dostupné na: https://doi.org/10.3390/plants11192488, Registrované v: WOS
23. [1.1] SELVI, S. - POLAT, R. - ÇAKILCIOGLU, U. - CELEP, F. - DIRMENCI, T. - ERTUG, Z.F. An ethnobotanical review on medicinal plants of the Lamiaceae family in Turkey. In TURKISH JOURNAL OF BOTANY. ISSN 1300-008X, 2022, vol. 46, no. 4, p. 283-332. Dostupné na: https://doi.org/10.55730/1300-008X.2712, Registrované v: WOS
24. [1.1] SHARMA, K. - BABAEI, A. - OBEROI, K. - AAYUSH, K. - SHARMA, R. - SHARMA, S. Essential Oil Nanoemulsion Edible Coating in Food Industry: a Review. In FOOD AND BIOPROCESS TECHNOLOGY. ISSN 1935-5130, NOV 2022, vol. 15, no. 11, p. 2375-2395. Dostupné na: https://doi.org/10.1007/s11947-022-02811-6, Registrované v: WOS
25. [1.1] SINGH, P. - VERMA, C. - MUKHOPADHYAY, S. - GUPTA, A. - GUPTA, B. Preparation of thyme oil loaded κ-carrageenan-polyethylene glycol hydrogel membranes as wound care system. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, APR 25 2022, vol. 618. Dostupné na: https://doi.org/10.1016/j.ijpharm.2022.121661, Registrované v: WOS
26. [1.1] STEGLINSKA, A. - BEKHTER, A. - WAWRZYNIAK, P. - KUNICKA-STYCZYNSKA, A. - JASTRZABEK, K. - FIDLER, M. - SMIGIELSKI, K. - GUTAROWSKA, B. Antimicrobial Activities of Plant Extracts against Solanum tuberosum L. Phytopathogens. In MOLECULES. MAR 2022, vol. 27, no. 5. Dostupné na: https://doi.org/10.3390/molecules27051579, Registrované v: WOS
27. [1.1] TOMICIC, Z. - TOMICIC, R. - MOZINA, S.S. - BUCAR, F. - TUREK, I. - RASPOR, P. Antifungal and anti-adhesion activity of plant extracts and essential oils against Candida spp. and Pichia spp.. In JOURNAL OF FOOD AND NUTRITION RESEARCH. ISSN 1336-8672, 2022, vol. 61, no. 1, p. 61-68., Registrované v: WOS
28. [1.1] WU, M. - TIAN, L. - FU, J.P. - LIAO, S.C. - LI, H. - GAI, Z.C. - GONG, G.L. Antibacterial mechanism of Protocatechuic acid against Yersinia enterocolitica and its application in pork. In FOOD CONTROL. ISSN 0956-7135, MAR 2022, vol. 133, A. Dostupné na: https://doi.org/10.1016/j.foodcont.2021.108573, Registrované v: WOS
29. [1.1] ZUZARTE, M. - SALGUEIRO, L. Essential Oils in Respiratory Mycosis: A Review. In MOLECULES. JUL 2022, vol. 27, no. 13. Dostupné na: https://doi.org/10.3390/molecules27134140, Registrované v: WOS
30. [1.1] ÖZGEN, P.S.O. - BILTEKIN, S.N. - IDUG, T. - MACIT, C. - AYRAN, I. - ÇELIK, S.A. - KüLTüR, S. - KAN, Y. - OMURTAG, G.Z. Chemical composition and in vitro mutagenic, antioxidant and anti-inflammatory activities of Lavandula angustifolia Mill. essential oil from Turkey. In JOURNAL OF RESEARCH IN PHARMACY. ISSN 2630-6344, 2022, vol. 26, no. 4, p. 781-789. Dostupné na: https://doi.org/10.29228/jrp.175, Registrované v: WOS
31. [1.2] ACHIMÓN, Fernanda - MERLO, Carolina - PIZZOLITTO, Romina P. - DAMBOLENA, José S. - OMARINI, Alejandra - ZYGADLO, Julio A. Volatile organic compounds and their capacity for controlling fungal infection in humans. In Promising Antimicrobials from Natural Products, 2022-02-03, pp. 199-240. Dostupné na: https://doi.org/10.1007/978-3-030-83504-0_10, Registrované v: SCOPUS
32. [1.2] DOS SANTOS, Maicon S.N. - ORO, Carolina E.D. - DOLIANITIS, Bianca M. - WANCURA, João H.C. - TRES, Marcus V. - ZABOT, Giovani L. Control of Phytopathogens in Agriculture by Essential Oils. In Essential Oils: Applications and Trends in Food Science and Technology, 2022-01-01, pp. 221-245. Dostupné na: https://doi.org/10.1007/978-3-030-99476-1_10, Registrované v: SCOPUS
33. [1.2] JADAUN, Jyoti Singh - CHOWNK, Manisha - BOSE, Subir Kumar - KUMARI, Swati - SANGWAN, Neelam S. Food and Vegetables as Source of Phytoactives for Immunomodulation. In Plants and Phytomolecules for Immunomodulation: Recent Trends and Advances, 2022-01-01, pp. 439-468. Dostupné na: https://doi.org/10.1007/978-981-16-8117-2_15, Registrované v: SCOPUS
34. [1.2] PHONG, H. X. - THANH, N. N. - TIEN, D. T.K. - LONG, B. H.D. Composition and bioactivity of essential oils from lolot pepper (Piper lolot C. DC.) extracted by microwave-assisted hydrodistillation. In Food Research, 2022-10-01, 6, 5, pp. 116-123. Dostupné na: https://doi.org/10.26656/fr.2017.6(5).537, Registrované v: SCOPUS

35. [1.2] SPROCATI, Anna Rosa - ALISI, Chiara - MIGLIORE, Giada - MARCONI, Paola - TASSO, Flavia. Sustainable restoration through biotechnological processes: A proof of concept. In Microorganisms in the Deterioration and Preservation of Cultural Heritage, 2021-05-05, pp. 235-261. Dostupné na: https://doi.org/10.1007/978-3-030-69411-1_11, Registrované v: SCOPUS
36. [1.2] TODOROVA, Maria D. - PARVANOVA, Petya N. - TODOROVA, Teodora I. - DRONCHEV, Georgi D. - NIKOLOVA, Milena T. - BERKOV, Strahil H. - CHANKOVA, Stephka Georgieva. On the mode of action of Origanum vulgare spp. hirtum methanolic extract and essential oil on Chlamydomonas reinhardtii. In BioRisk, 2022-01-01, 2022, 17, pp. 179-190. ISSN 13132644. Dostupné na: https://doi.org/10.3897/biorisk.17.77313, Registrované v: SCOPUS
37. [1.2] YESHI, Karma - WANGCHUK, Phurpa. Essential oils and their bioactive molecules in healthcare. In Herbal Biomolecules in Healthcare Applications, 2022-01-01, pp. 215-237. Dostupné na: https://doi.org/10.1016/B978-0-323-85852-6.00006-8, Registrované v: SCOPUS

ADCA281 PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - HABALOVÁ, B. - KRAKOVÁ, Lucia - MAKOVÁ, A. - PANGALLO, Domenico. Microbial communities affecting albumen photography heritage: a methodological survey. In Scientific Reports, 2016, vol. 6, no. 20810 p. 1-14. (2015: 5.228 - IF, Q1 - JCR, 2.034 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep20810

Citácie:

1. [1.1] ALI, M. THE EVALUATION OF AGAROSE-BASED GEL SYSTEMS FOR SURFACE CLEANING ALBUMEN PRINTS VS THE CONVENTIONAL WATER TREATMENT. In EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES. ISSN 2090-4932, JUN 2022, vol. 12, no. 1, p. 7-27. Dostupné na: https://doi.org/10.21608/ejars.2022.246573, Registrované v: WOS
2. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS
3. [1.1] CAPPA, F. - PIñAR, G. - BRENNER, S. - FRüHMANN, B. - WETTER, W. - SCHREINER, M. - ENGEL, P. - MIKLAS, H. - STERFLINGER, K. The Kiev Folia: An interdisciplinary approach to unravelling the past of an ancient Slavonic manuscript. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, FEB 2022, vol. 167. Dostupné na: https://doi.org/10.1016/j.ibiod.2021.105342, Registrované v: WOS
4. [1.1] ELDEEB, H. - ALI, M. - MANSOUR, M. INVESTIGATION AND CONSERVATION OF A PRIVATE PHOTOGRAPHIC COLLECTION OF ALBUMEN PRINTS, EGYPT. In EGYPTIAN JOURNAL OF ARCHAEOLOGICAL AND RESTORATION STUDIES. ISSN 2090-4932, JUN 2022, vol. 12, no. 1, p. 41-52. Dostupné na: https://doi.org/10.21608/ejars.2022.246575, Registrované v: WOS
5. [1.1] ELDEEB, H.M.A. - ALI, M.F. - MANSOUR, M.M.A. - AHMED, M.A.A. - SALEM, M.Z.M. Monitoring the effects of fungi isolated from archival document on model albumen silver prints. In MICROBIAL PATHOGENESIS. ISSN 0882-4010, AUG 2022, vol. 169. Dostupné na: https://doi.org/10.1016/j.micpath.2022.105632, Registrované v: WOS
6. [1.1] OSMAN, M.E. - ISMAEL, S. - CILIBERTO, E. - STEFANI, S. - ELSABA, Y.M. EVALUATION OF MICROBIAL DETERIORATION OF SILVER GELATIN PHOTOGRAPHS STORED IN AN OLD PHOTOGRAPHIC ARCHIVE. In INTERNATIONAL JOURNAL OF CONSERVATION SCIENCE. ISSN 2067-533X, APR-JUN 2022, vol. 13, no. 2, p. 527-540., Registrované v: WOS
7. [1.1] PURKRTOVA, S. - SAVICKA, D. - KADAVA, J. - SYKOROVA, H. - KOVACOVA, N. - KALISOVA, D. - NESPOROVA, T. - NOVAKOVA, M. - BENETKOVA, B.M. - KOUKALOVA, L. - BORYSKOVA, S. - HNULIKOVA, B. - DUROVIC, M. - DEMNEROVA, K. Microbial Contamination of Photographic and Cinematographic Materials in Archival Funds in the Czech Republic. In MICROORGANISMS. JAN 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.3390/microorganisms10010155, Registrované v: WOS
8. [1.1] ROMANI, M. - PRONTI, L. - RUBERTO, C. - SEVERINI, L. - MAZZUCA, C. - VIVIANI, G. - MAZZINGHI, A. - CHIARI, M. - CASTELLI, L. - TACCETTI, F. - DAMIANI, A. - GORGA, C. - ANGELUCCI, M. - CESTELLI-GUIDI, M. Toward an assessment of cleaning treatments onto nineteenth-twentieth-century photographs by using a multi-analytic approach. In EUROPEAN PHYSICAL JOURNAL PLUS. ISSN 2190-5444, JUN 30 2022, vol. 137, no. 6. Dostupné na: https://doi.org/10.1140/epjp/s13360-022-02948-5, Registrované v: WOS
9. [1.2] BOYATZIS, Stamatis C. Materials in Art and Archaeology Through their Infrared Spectra. In Materials in Art and Archaeology through their Infrared Spectra, 2022-01-01, pp. 1-430. Dostupné na: https://doi.org/10.52305/SEYX8054, Registrované v: SCOPUS
10. [1.2] DE NUNTIIS, Paola - PALLA, Franco. Bioaerosol. In Biotechnology and Conservation of Cultural Heritage, 2022-06-28, pp. 31-50. Dostupné na:

https://doi.org/10.1007/978-3-030-97585-2_2, Registrované v: SCOPUS
11. [1.2] PINZARI, Flavia - GUTAROWSKA, Beata. Extreme colonizers and rapid profiteers: The challenging world of microorganisms that attack paper and parchment. In Microorganisms in the Deterioration and Preservation of Cultural Heritage, 2021-05-05, pp. 79-113. Dostupné na: https://doi.org/10.1007/978-3-030-69411-1_4, Registrované v: SCOPUS

ADCA282 QIAO, H. - KRAJČÍKOVÁ, Daniela - XING, C. - LU, B. - HAO, J. - KE, X. - WANG, H. - BARÁK, Imrich - TANG, J. Study of the interactions between the key spore coat morphogenetic proteins CotE and SpoVID. In Journal of Structural Biology, 2013, vol. 181, p. 128-135. (2012: 3.361 - IF, Q2 - JCR, 2.268 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1047-8477. Dostupné na: https://doi.org/10.1016/j.jsb.2012.11.002

Citácie:
1. [1.1] DELERUE, T. - ANANTHARAMAN, V. - GILMORE, M.C. - POPHAM, D.L. - CAVA, F. - ARAVIND, L. - RAMAMURTHI, K.S. Bacterial developmental checkpoint that directly monitors cell surface morphogenesis. In DEVELOPMENTAL CELL. ISSN 1534-5807, FEB 7 2022, vol. 57, no. 3, p. 344-+. Dostupné na: https://doi.org/10.1016/j.devcel.2021.12.021, Registrované v: WOS

ADCA283 RAZET, R. - THOMET, U. - FURTMULLER, R. - JURSKÝ, František - SIGEL, E. - SIEGHART, W. - DODD, R.H. Use of bicuculline, a GABA antagonist, as a template for the development of a new class of ligands showing positive allosteric modulation of the GABA(A) receptor. In Bioorganic & Medicinal Chemistry Letters, 2000, vol. 10, p. 2579-2583. ISSN 0960-894X. Dostupné na: https://doi.org/10.1016/S0960-894X(00)00514-X

Citácie:
1. [1.1] KERSTING, Lena - KUHN, Leah - ANOKHIN, Maksim - SCHUSTER, Florian - HAEBERLI, Cecile - SAMBYAL, Shainy - KUMAR, Halmuthur M. Sampath - KEISER, Jennifer - ALABUGIN, Igor - TSOGOEVA, Svetlana B. Visible-Light-Driven Metal-Free C-H Functionalization: Access to New Bioactive Tetrahydroisoquinoline-Butenolide Hybrids via Domino Amine Oxidation/Vinylogous Mannich Reaction. In CHEMPHOTOCHEM, 2022, vol. 6, no. 8, pp. ISSN 2367-0932. Dostupné na: https://doi.org/10.1002/cptc.202200109, Registrované v: WOS

ADCA284 REGELSBERGER, G. - JAKOPITSCH, C. - PLASSER, L. - SCHWAIGER, H. - FURTMULLER, P.G. - PESCHEK, G.A. - ZÁMOCKÝ, Marcel - OBINGER, C. Occurrence and biochemistry of hydroperoxidases in oxygenic phototrophic prokaryotes (cyanobacteria). In Plant Physiology and Biochemistry, 2002, vol. 40, p. 479-490. Dostupné na: https://doi.org/10.1016/S0981-9428(02)01405-5

Citácie:
1. [1.1] KHAN, Waris - PARK, Ji Won - MAENG, Sung Kyu. Fluorescence descriptors for algal organic matter and microalgae disintegration during ultrasonication. In JOURNAL OF WATER PROCESS ENGINEERING, 2022, vol. 45, no., pp. ISSN 2214-7144. Dostupné na: https://doi.org/10.1016/j.jwpe.2021.102517, Registrované v: WOS
2. [1.1] MORRIS, J. Jeffrey - ROSE, Andrew L. - LU, Zhiying. Reactive oxygen species in the world ocean and their impacts on marine ecosystems. In REDOX BIOLOGY, 2022, vol. 52, no., pp. ISSN 2213-2317. Dostupné na: https://doi.org/10.1016/j.redox.2022.102285, Registrované v: WOS

ADCA285 REISER, V. - GAŠPERÍK, Juraj. Purification and characterization of the cell-wall-associated and extracellular alpha-glucosidases from Saccharomycopsis fibuligera. In Biochemical Journal, 1995, vol. 15, p. 753-760. (1994: 4.262 - IF). ISSN 0264-6021. Dostupné na: https://doi.org/10.1042/bj3080753

Citácie:
1. [1.1] GONçALVES, C. - MARQUES, M. - GONçALVES, P. Contrasting Strategies for Sucrose Utilization in a Floral Yeast Clade. In MSPHERE. APR 27 2022, vol. 7, no. 2. Dostupné na: https://doi.org/10.1128/msphere.00035-22, Registrované v: WOS

ADCA286 REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ŠEVČÍKOVÁ, Beatrica - NUñEZ, L.E. - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - ŠKULTÉTY, Ľudovít - CORTÉS, J. - KORMANEC, Ján**. An efficient blue-white screening system for markerless deletions and stable integrations in Streptomyces chromosomes based on the blue pigment indigoidine biosynthetic gene bpsA. In Applied Microbiology and Biotechnology, 2018, vol. 102, p. 10231-10244. (2017: 3.340 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-018-9393-7

Citácie:
1. [1.1] IWAI, K. - WEHRS, M. - GARBER, M. - SUSTARICH, J. - WASHBURN, L. - COSTELLO, Z. - KIM, P.W. - ANDO, D. - GAILLARD, W.R. - HILLSON, N.J. - ADAMS, P.D. - MUKHOPADHYAY, A. - MARTIN, H.G. - SINGH, A.K. Scalable and automated CRISPR-based strain engineering using droplet microfluidics. In MICROSYSTEMS & NANOENGINEERING. ISSN 2055-7434, MAR 15 2022, vol. 8, no. 1., Registrované v: WOS

2. [1.1] SANTOS, L.D.F. - CARATY-PHILIPPE, L. - DARBON, E. - PERNODET, J.L. Marker-Free Genome Engineering in Amycolatopsis Using the pSAM2 Site-Specific Recombination System. In MICROORGANISMS. APR 2022, vol. 10, no. 4., Registrované v: WOS
3. [1.2] ZHANG, Zhilong - LI, Pengwei - WANG, Min - ZHANG, Yan - WU, Bian - TAO, Yong - PAN, Guohui - CHEN, Yihua. (S)-3-aminopiperidine-2,6-dione is a biosynthetic intermediate of microbial blue pigment indigoidine. In mLife, 2022-06-01, 1, 2, pp. 146-155. ISSN 20971699. Dostupné na: https://doi.org/10.1002/mlf2.12023, Registrované v: SCOPUS

ADCA287 REŽUCHOVÁ, Bronislava - MITICKÁ, H. - HOMEROVÁ, Dagmar - ROBERTS, M. - KORMANEC, Ján. New members of the Escherichia coli sigma(E) regulon identified by a two-plasmid system. In FEMS Microbiology Letters, 2003, vol. 225, p. 1-7. ISSN 0378-1097. Dostupné na: https://doi.org/10.1016/S0378-1097(03)00480-4

Citácie:

1. [1.1] VILAS BOAS CORDEIRO, Tamires Fernanda - PARDINI GONTIJO, Marco Tulio - JORGE, Genesy Perez - BROCCHI, Marcelo. EbfC/YbaB: A Widely Distributed Nucleoid-Associated Protein in Prokaryotes. In MICROORGANISMS, 2022, vol. 10, no. 10, pp. Dostupné na: https://doi.org/10.3390/microorganisms10101945, Registrované v: WOS

ADCA288 ROWLEY, G. - ŠKOVIEROVÁ, Henrieta - STEVENSON, A. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - LEWIS, R.J. - SHERRY, A. - KORMANEC, Ján - ROBERTS, M. The periplasmic chaperone Skp is required for Salmonella Typhimurium infection in a murine Typhoid model. In Microbiology-SGM, 2011, vol. 157, p. 848-858. (2010: 2.957 - IF, Q2 - JCR, 1.804 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.046011-0

Citácie:

1. [1.1] COMBS, Ashton N. - SILHAVY, Thomas J. The sacrificial adaptor protein Skp functions to remove stalled substrates from the beta-barrel assembly machine. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2022, vol. 119, no. 1, pp. ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.2114997119, Registrované v: WOS

ADCA289 ROWLEY, G. - SPECTOR, M. - KORMANEC, Ján - ROBERTS, M. Pushing the envelope: extracytoplasmic stress responses in bacterial pathogens. In Nature Reviews Microbiology, 2006, vol. 4, p. 383-394. (2005: 13.989 - IF, Q1 - JCR, 5.965 - SJR, Q1 - SJR). ISSN 1740-1526. Dostupné na: https://doi.org/10.1038/nrmicro1394

Citácie:

1. [1.1] ALIASHKEVICH, A. - CAVA, F. LD-transpeptidases: the great unknown among the peptidoglycan cross-linkers. In FEBS JOURNAL. ISSN 1742-464X, AUG 2022, vol. 289, no. 16, p. 4718-4730. Dostupné na: https://doi.org/10.1111/febs.16066, Registrované v: WOS
2. [1.1] CREMANNS, M. - LANGE, F. - GATERMANN, S.G. - PFENNIGWERTH, N. Effect of sigma E on carbapenem resistance in OXA-48-producing Klebsiella pneumoniae. In JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. ISSN 0305-7453, MAY 29 2022, vol. 77, no. 6, p. 1578-1585. Dostupné na: https://doi.org/10.1093/jac/dkac078, Registrované v: WOS
3. [1.1] DAWAN, J. - AHN, J. Bacterial Stress Responses as Potential Targets in Overcoming Antibiotic Resistance. In MICROORGANISMS. JUL 2022, vol. 10, no. 7. Dostupné na: https://doi.org/10.3390/microorganisms10071385, Registrované v: WOS
4. [1.1] EGER, E. - SCHWABE, M. - SCHULIG, L. - HüBNER, N.O. - BOHNERT, J.A. - BORNSCHEUER, U.T. - HEIDEN, S.E. - MüLLER, J.U. - ADNAN, F. - BECKER, K. - CORREA-MARTINEZ, C.L. - GUENTHER, S. - IDELEVICH, E.A. - BAECKER, D. - SCHAUFLER, K. Extensively Drug-Resistant Klebsiella pneumoniae Counteracts Fitness and Virulence Costs That Accompanied Ceftazidime-Avibactam Resistance Acquisition. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, JUN 2022, vol. 10, no. 3. Dostupné na: https://doi.org/10.1128/spectrum.00148-22, Registrované v: WOS
5. [1.1] KARASH, S. - JIANG, T.S. - KWON, Y.M. Genome-wide characterization of Salmonella Typhimurium genes required for the fitness under iron restriction. In BMC GENOMIC DATA. JUL 22 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12863-022-01069-3, Registrované v: WOS
6. [1.1] LIU, F. - PENG, W. - YAN, K. - HUANG, J. - YUAN, F.Y. - HE, Q.G. - CHEN, H.C. - BEI, W.C. CpxAR of Actinobacillus pleuropneumoniae Contributes to Heat Stress Response by Repressing Expression of Type IV Pilus Gene apfA. In MICROBIOLOGY SPECTRUM. ISSN 2165-0497, DEC 21 2022, vol. 10, no. 6. Dostupné na: https://doi.org/10.1128/spectrum.02523-22, Registrované v: WOS
7. [1.1] MA, M.Q. - GARZA, A.G. - LEMON, D.J. - CARO, E.A. - RITCHIE, L. - RYAN, C. - SPEARING, V.M. - MURPHY, K.A. - WELCH, R.D. Identifying the Gene Regulatory Network of the Starvation-Induced Transcriptional Activator Nla28. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, DEC 20 2022, vol. 204, no. 12. Dostupné na:

https://doi.org/10.1128/jb.00265-22, Registrované v: WOS
8. [1.1] PONATH, F. - ZHU, Y. - COSI, V. - VOGEL, J. Expanding the genetic toolkit helps dissect a global stress response in the early-branching species Fusobacterium nucleatum. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 26 2022, vol. 119, no. 40. Dostupné na: https://doi.org/10.1073/pnas.2201460119, Registrované v: WOS
9. [1.1] SINGH, P. - VERMA, R.K. - CHATTERJEE, S. The diffusible signal factor synthase, RpfF, in Xanthomonas oryzae pv. oryzae is required for the maintenance of membrane integrity and virulence. In MOLECULAR PLANT PATHOLOGY. ISSN 1464-6722, JAN 2022, vol. 23, no. 1, p. 118-132. Dostupné na: https://doi.org/10.1111/mpp.13148, Registrované v: WOS
10. [1.2] SUN, Yang - WANG, Lijun - YANG, Taowei - FU, Weilai - YI, Ganfeng - RAO, Zhiming. Promotion of prodigiosin production by introducing poly (A) tails into O-methyltransferase encoding gene. In Food and Fermentation Industries, 2021-05-15, 47, 9, pp. 49-56. ISSN 0253990X. Dostupné na: https://doi.org/10.13995/j.cnki.11-1802/ts.025669, Registrované v: SCOPUS

ADCA290 ROWLEY, G. - STEVENSON, A. - KORMANEC, Ján - ROBERTS, M. Effect of inactivation of degS on Salmonella enterica serovar Typhimurium in vitro and in vivo. In Infection and Immunity, 2005, vol. 73, p. 459-463. ISSN 0019-9567. Dostupné na: https://doi.org/10.1128/IAI.73.1.459-463.2005

Citácie:
1. [1.1] KARASH, Sardar - JIANG, Tieshan - KWON, Young Min. Genome-wide characterization of Salmonella Typhimurium genes required for the fitness under iron restriction. In BMC GENOMIC DATA, 2022, vol. 23, no. 1, pp. Dostupné na: https://doi.org/10.1186/s12863-022-01069-3, Registrované v: WOS

ADCA291 SÁDECKÁ, Jana - KOLEK, Emil - PANGALLO, Domenico - VALÍK, Ľubomír - KUCHTA, T. Principal volatile odorants and dynamics of their formation during the production of May Bryndza cheese. In Food chemistry, 2014, vol. 150, p. 301–306. (2013: 3.259 - IF, Q1 - JCR, 1.548 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2013.10.163

Citácie:
1. [1.1] ARAúJO-RODRIGUES, H. - MARTINS, A.P.L. - TAVARIA, F.K. - SANTOS, M.T.G. - CARVALHO, M.J. - DIAS, J. - ALVARENGA, N.B. - PINTADO, M.E. Organoleptic Chemical Markers of Serpa PDO Cheese Specificity. In FOODS. JUL 2022, vol. 11, no. 13. Dostupné na: https://doi.org/10.3390/foods11131898, Registrované v: WOS
2. [1.1] DEMIANOVá, A. - BOBKOVá, A. - JURCAGA, L. - BOBKO, M. - BELEJ, L. - POLáKOVá, K. - ZIAK, M. IMPACT OF THE HARVESTING YEAR ON THE POSSIBLE AUTHENTICATION OF GEOGRAPHICAL ORIGIN OF GREEN COFFEA ARABICA USING PROFILE OF VOLATILES. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, DEC-JAN 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.55251/jmbfs.5407, Registrované v: WOS
3. [1.1] LIU, W.H. - PU, X.L. - SUN, J.K. - SHI, X.W. - CHENG, W.D. - WANG, B. Effect of Lactobacillus plantarum on functional characteristics and flavor profile of fermented walnut milk. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, APR 15 2022, vol. 160. Dostupné na: https://doi.org/10.1016/j.lwt.2022.113254, Registrované v: WOS
4. [1.1] PLUTA-KUBICA, A. - NAJGEBAUER-LEJKO, D. - DOMAGALA, J. - STEFáNIKOVá, J. - GOLIAN, J. The Effect of Cow Breed and Wild Garlic Leaves (Allium ursinum L.) on the Sensory Quality, Volatile Compounds, and Physical Properties of Unripened Soft Rennet-Curd Cheese. In FOODS. DEC 2022, vol. 11, no. 24. Dostupné na: https://doi.org/10.3390/foods11243948, Registrované v: WOS
5. [1.1] POLáKOVá, K. - BOBKOVá, A. - DEMIANOVá, A. - BELEJ, L. - JURCAGA, L. - BOBKO, M. - ZIAK, M. - KORCOK, M. IDENTIFICATION OF VOLATILES IN GREEN COFFEA ARABICA AND DETERMINATION OF CHANGES CAUSED BY THE ROASTING PROCESS. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, OCT-NOV 2022, vol. 12, no. 2. Dostupné na: https://doi.org/10.55251/jmbfs.5420, Registrované v: WOS
6. [1.1] STEFáNIKOVA, J. - ARVAY, J. - KUNOVá, S. - KOWALCZEWSKI, P.L. - KACáNIOVá, M. Aroma profile and lactic acid bacteria characteristic of traditional Slovak cheese "May bryndza". In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, OCT 2022, vol. 28, no. 7, p. 580-591. Dostupné na: https://doi.org/10.1177/10820132211039916, Registrované v: WOS
7. [1.2] DEMIANOVÁ, Alžbeta - BOBKOVÁ, Alica - LIDIKOVÁ, Judita - JURČAGA, Lukáš - BOBKO, Marek - BELEJ, Ľubomír - KOLEK, Emil - POLÁKOVÁ, Katarína -

IRIONDO-DEHOND, Amaia - DOLORES DEL CASTILLO, María. Volatiles as chemical markers suitable for identification of the geographical origin of green Coffea arabica L. In Food Control, 2022-06-01, 136, pp. ISSN 09567135. Dostupné na: https://doi.org/10.1016/j.foodcont.2022.108869, Registrované v: SCOPUS

ADCA292 SÁDECKÁ, Jana - ŠAKOVÁ, Nikoleta - PANGALLO, Domenico - KOREŇOVÁ, J. - KOLEK, Emil - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - VALÍK, Ľubomír - KUCHTA, T. Microbial diversity and volatile odour-active compounds of barrelled ewes'; cheese as an intermediate product that determines the quality of winter bryndza cheese. In LWT - Food Science and Technology, 2016, vol. 70, p. 237–244. (2015: 2.711 - IF, Q1 - JCR, 1.290 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0023-6438. Dostupné na: https://doi.org/10.1016/j.lwt.2016.02.048

Citácie:

1. [1.1] GERONIKOU, A. - LARSEN, N. - LILLEVANG, S.K. - JESPERSEN, L. Occurrence and Identification of Yeasts in Production of White-Brined Cheese. In MICROORGANISMS. JUN 2022, vol. 10, no. 6. Dostupné na: https://doi.org/10.3390/microorganisms10061079, Registrované v: WOS

2. [1.1] LI, S.B. - TIAN, Y.F. - SUN, M.H. - LIU, J.J. - BAI, Y.X. - LIU, X.L. - GUO, Y. Characterization of Key Aroma Compounds in Fermented Bamboo Shoots Using Gas Chromatography-Olfactometry-Mass Spectrometry, Odor Activity Values, and Aroma Recombination Experiments. In FOODS. JUL 2022, vol. 11, no. 14. Dostupné na: https://doi.org/10.3390/foods11142106, Registrované v: WOS

3. [1.1] SANTAMARINA-GARCíA, G. - HERNáNDEZ, I. - AMORES, G. - VIRTO, M. Characterization of Microbial Shifts during the Production and Ripening of Raw Ewe Milk-Derived Idiazabal Cheese by High-Throughput Sequencing. In BIOLOGY-BASEL. MAY 2022, vol. 11, no. 5. Dostupné na: https://doi.org/10.3390/biology11050769, Registrované v: WOS

4. [1.1] STEFáNIKOVA, J. - ARVAY, J. - KUNOVá, S. - KOWALCZEWSKI, P.L. - KACáNIOVá, M. Aroma profile and lactic acid bacteria characteristic of traditional Slovak cheese "May bryndza". In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, OCT 2022, vol. 28, no. 7, p. 580-591. Dostupné na: https://doi.org/10.1177/10820132211039916, Registrované v: WOS

ADCA293 SARIAN, F.D. - JANEČEK, Štefan - PIJNING, T. - IHSANAWATI - NURACHMAN, Z. - RADJASA, O.K. - DIJKHUIZEN, L. - NATALIA, D. - VAN DER MAAREL, M.J. A new group of glycoside hydrolase family 13 α-amylases with an aberrant catalytic triad. In Scientific Reports, 2017, vol. 7, art. no. 44230. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep44230

Citácie:

1. [1.1] LEKAKARN, H. - BUNTERNGSOOK, B. - PAJONGPAKDEEKUL, N. - PRONGJIT, D. - CHAMPREDA, V. A novel low temperature active maltooligosaccharides-forming amylase from Bacillus koreensis HL12 as biocatalyst for maltooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.1007/s13205-022-03188-1, Registrované v: WOS

2. [1.1] NASSER, H. - EIKMANNS, B.J. - TOLBA, M.M. - EL-AZIZI, M. - ABOU-AISHA, K. The Superiority of Bacillus megaterium over Escherichia coli as a Recombinant Bacterial Host for Hyaluronic Acid Production. In MICROORGANISMS. DEC 2022, vol. 10, no. 12. Dostupné na: https://doi.org/10.3390/microorganisms10122347, Registrované v: WOS

3. [1.1] PRONGJIT, D. - LEKAKARN, H. - BUNTERNGSOOK, B. - AIEWVIRIYASAKUL, K. - SRITUSNEE, W. - CHAMPREDA, V. Functional Characterization of Recombinant Raw Starch Degrading α-Amylase from Roseateles terrae HL11 and Its Application on Cassava Pulp Saccharification. In CATALYSTS. JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.3390/catal12060647, Registrované v: WOS

4. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADCA294 SCLOCCHI, M.C. - KRAKOVÁ, Lucia - PINZARI, F. - COLAIZZI, P. - BICCHIERI, M. - ŠAKOVÁ, Nikoleta - PANGALLO, Domenico. Microbial life and death in a foxing stain: a suggested mechanism of photographic prints defacement. In Microbial Ecology, 2017, vol. 73, p. 815–826. (2016: 3.630 - IF, Q1 - JCR, 1.325 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0095-3628. Dostupné na: https://doi.org/10.1007/s00248-016-0913-7

Citácie:

1. [1.1] BASTHOLM, C.J. - MADSEN, A.M. - ANDERSEN, B. - FRISVAD, J.C. - RICHTER, J. The mysterious mould outbreak - A comprehensive fungal colonisation in a climate-controlled museum repository challenges the environmental guidelines for heritage collections. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 78-87. Dostupné na:

https://doi.org/10.1016/j.culher.2022.02.009, Registrované v: WOS
2. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p. 245-260. Dostupné na: https://doi.org/10.1016/j.culher.2022.03.013, Registrované v: WOS
3. [1.1] DAI, R.C. - TANG, H. - TANG, B. - ZHAO, M.F. - DAI, L.Y. - ZHAO, Y. - LONG, Z.R. - ZHONG, N.A.B. Study on Detection Method of Foxing on Paper Artifacts Based on Hyperspectral Imaging Technology. In SPECTROSCOPY AND SPECTRAL ANALYSIS. ISSN 1000-0593, MAY 2022, vol. 42, no. 5, p. 1567-1571. Dostupné na: https://doi.org/10.3964/j.issn.1000-0593(2022)05-1567-05, Registrované v: WOS
4. [1.1] PURKRTOVA, S. - SAVICKA, D. - KADAVA, J. - SYKOROVA, H. - KOVACOVA, N. - KALISOVA, D. - NESPOROVA, T. - NOVAKOVA, M. - BENETKOVA, B.M. - KOUKALOVA, L. - BORYSKOVA, S. - HNULIKOVA, B. - DUROVIC, M. - DEMNEROVA, K. Microbial Contamination of Photographic and Cinematographic Materials in Archival Funds in the Czech Republic. In MICROORGANISMS. JAN 2022, vol. 10, no. 1. Dostupné na: https://doi.org/10.3390/microorganisms10010155, Registrované v: WOS

ADCA295 SELIM, S.A. - HASSAN, S. - HAGAGY, N. - KRAKOVÁ, Lucia - GRIVALSKÝ, Tomáš - PANGALLO, Domenico. Assessment of microbial diversity in saudi springs by culture-dependent and culture-independent methods. In Geomicrobiology Journal, 2017, vol. 34, p. 443-453. (2016: 1.485 - IF, Q3 - JCR, 0.583 - SJR, Q2 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0149-0451. Dostupné na: https://doi.org/10.1080/01490451.2016.1219430

Citácie:

1. [1.1] ZHANG, C. - YUAN, C.B. - ZHU, Y.N. - ZHANG, Q. A novel MABR process based on HN-AD bacteria-chlorella symbiotic system: Effects of COD/TN ratios on performance, community structure, functional bacteria and key genes. In JOURNAL OF WATER PROCESS ENGINEERING. ISSN 2214-7144, OCT 2022, vol. 49. Dostupné na: https://doi.org/10.1016/j.jwpe.2022.103157, Registrované v: WOS

ADCA296 SENN, M.M. - GIACHINO, P.M. - HOMEROVÁ, Dagmar - STEINHUBER, A. - STRASSNER, J. - KORMANEC, Ján - FLUCKIGER, U. - BERGER-BACHI, B. - BISCHOFF, M. Molecular analysis and organization of the sigmaB operon in Staphylococcus aureus. In Journal of Bacteriology, 2005, vol. 187, p. 8006-8019. (2004: 4.146 - IF). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.187.23.8006-8019.2005

Citácie:

1. [1.1] HU, Haijing - LIU, Huanli - KWEON, Ohgew - HART, Mark E. A naturally occurring point mutation in the hyaluronidase gene (hysA1) of Staphylococcus aureus UAMS-1 results in reduced enzymatic activity. In CANADIAN JOURNAL OF MICROBIOLOGY, 2022, vol. 68, no. 1, pp. 31-43. ISSN 0008-4166. Dostupné na: https://doi.org/10.1139/cjm-2021-0110, Registrované v: WOS
2. [1.1] MENARD, Guillaume - SILARD, Chloe - SURIRAY, Marie - ROUILLON, Astrid - AUGAGNEUR, Yoann. Thirty Years of sRNA-Mediated Regulation in Staphylococcus aureus: From Initial Discoveries to In Vivo Biological Implications. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 13, pp. Dostupné na: https://doi.org/10.3390/ijms23137346, Registrované v: WOS

ADCA297 SCHAEFER, L. - GRONE, Hermann-Josef - RASLIK, I. - ROBENEK, Horst - UGORČÁKOVÁ, Jana - BUDNY, S. - SCHAEFER, R.M. - KRESSEL, H. Small proteoglycans of normal adult human kidney: distinct expression patterns of decorin, biglycan, fibromodulin, and lumican. In Kidney International, 2000, vol. 58, p. 1557-1568. ISSN 0085-2538. Dostupné na: https://doi.org/10.1046/j.1523-1755.2000.00317.x

Citácie:

1. [1.1] ABDOLLAHZADEH, Fatemeh - KHOSHDEL-RAD, Niloofar - MOGHADASALI, Reza. Kidney development and function: ECM cannot be ignored. In DIFFERENTIATION, 2022, vol. 124, no., pp. 28-42. ISSN 0301-4681. Dostupné na: https://doi.org/10.1016/j.diff.2022.02.001, Registrované v: WOS
2. [1.1] HALASI, Marianna - GRINSTEIN, Mor - ADINI, Avner - ADINI, Irit. Fibromodulin Ablation Exacerbates the Severity of Acute Colitis. In JOURNAL OF INFLAMMATION RESEARCH, 2022, vol. 15, no., pp. 4515-4526. Dostupné na: https://doi.org/10.2147/JIR.S366290Journalof, Registrované v: WOS

ADCA298 SCHAEFER, L. - RASLIK, Igor - GRONE, Hermann-Josef - SCHONHERR, Elke - MACÁKOVÁ, K. - UGORČÁKOVÁ, Jana - BUDNY, S. - SCHAEFER, R.M. - KRESSEL, H. Small proteoglycans in human diabetic nephropathy: Discrepancy between glomerular expression and protein accumulation of decorin, biglycan, lumican, and fibromodulin. In Faseb Journal, 2001, vol. 15, p. 559-561. (2000: 9.249 - IF, karentované - CCC). (2001 - Current Contents). ISSN 0892-6638. Dostupné na: https://doi.org/10.1096/fj.00-0493fje

Citácie:
1. [1.1] GARANTZIOTIS, S. - SAVANI, R.C. Proteoglycans in Toll-like receptor responses and innate immunity. In AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY. ISSN 0363-6143, JUL 2022, vol. 323, no. 1, p. C202-C214., Registrované v: WOS
2. [1.1] MAHALING, B. - LOW, S.W.Y. - BECK, M. - KUMAR, D. - AHMED, S. - CONNOR, T.B. - AHMAD, B. - CHAURASIA, S.S. Damage-Associated Molecular Patterns (DAMPs) in Retinal Disorders. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MAR 2022, vol. 23, no. 5., Registrované v: WOS
3. [1.1] SRIDHARAN, S. - NAGARAJAN, S.K. - VENUGOPAL, K. - VENKATASUBBU, G.D. Time-dependent conformational analysis of ALK5-lumican complex in presence of graphene and graphene oxide employing molecular dynamics and MMPBSA calculation. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, JUL 21 2022, vol. 40, no. 13, p. 5932-5955., Registrované v: WOS
4. [1.1] STRIEDER-BARBOZA - FLESHER, C.G. - GELETKA, L.M. - EICHLER, T. - AKINLEYE, O. - KY, A. - EHLERS, A.P. - LUMENG, C.N. - O';ROURKE, R.W. Lumican modulates adipocyte function in obesity-associated type 2 diabetes. In ADIPOCYTE. ISSN 2162-3945, DEC 31 2022, vol. 11, no. 1, p. 665-675., Registrované v: WOS
5. [1.1] ZHOU, H.D. - YANG, Z.F. - MU, L. - SHI, Y.H. Integrated Analysis of Multiple Microarray Studies to Identify Core Gene-Expression Signatures Involved in Tubulointerstitial Injury in Diabetic Nephropathy. In BIOMED RESEARCH INTERNATIONAL. ISSN 2314-6133, MAY 10 2022, vol. 2022., Registrované v: WOS

ADCA299 SCHAEFER, L. - HAUSSER, H. - ALTENBURGER, M. - UGORČÁKOVÁ, Jana - AUGUST, C. - FISHER, L.W. - SCHAEFER, R.M. - KRESSEL, H. Decorin, biglycan and their endocytosis receptor in rat renal cortex. In Kidney International, 1998, vol. 54, p. 1529-1541. ISSN 0085-2538. Dostupné na: https://doi.org/10.1046/j.1523-1755.1998.00149.x

Citácie:
1. [1.1] NULALI, Jiayida - ZHAN, Ming - ZHANG, Kaiwen - TU, Pinghui - LIU, Yu - SONG, Huaidong. Osteoglycin: An ECM Factor Regulating Fibrosis and Tumorigenesis. In BIOMOLECULES, 2022, vol. 12, no. 11, pp. Dostupné na: https://doi.org/10.3390/biom12111674, Registrované v: WOS

ADCA300 SCHAEFER, Liliana - MAČÁKOVÁ, Katarína - RASLIK, Igor - MICEGOVA, Miroslava - GRONE, Hermann-Josef - SCHONHERR, Elke - ROBENEK, Horst - ECHTERMEYER, Frank G. - GRÄSSEL, Susanne - BRUCKNER, Peter - SCHAEFER, R.M. - IOZZO, Renato V. - KRESSE, Hans. Absence of decorin adversely influences tubulointerstitial fibrosis of the obstructed kidney by enhanced apoptosis and increased inflammatory reaction. In American Journal of Pathology, 2002, vol. 160, no.3, p. 1181-1191. Dostupné na: https://doi.org/10.1016/S0002-9440(10)64937-1

Citácie:
1. [1.1] XIA, Meng-Di - YU, Rui-Ran - CHEN, Dong-Ming. Identification of Hub Biomarkers and Immune-Related Pathways Participating in the Progression of Antineutrophil Cytoplasmic Antibody-Associated Glomerulonephritis. In FRONTIERS IN IMMUNOLOGY, 2022, vol. 12, no., pp. ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2021.809325, Registrované v: WOS
2. [1.1] XIE, Christopher - MONDAL, Dipon K. - ULAS, Mikdat - NEILL, Thomas - IOZZO, Renato. Oncosuppressive roles of decorin through regulation of multiple receptors and diverse signaling pathways. In AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY, 2022, vol. 322, no. 3, pp. C554-C566. ISSN 0363-6143. Dostupné na: https://doi.org/10.1152/ajpcell.00016.2022, Registrované v: WOS

ADCA301 SCHILTER, H. - CANTEMIR-STONE, C.Z. - LEKSA, Vladimír - OHRADANOVA-REPIC, A. - FINDLAY, A. - DEODHAR, M. - STOCKINGER, H. - SONG, X. - MOLLOY, M. - MARSH, C.B. - JAROLIMEK, W. The mannose-6-phosphate analogue, PXS64, inhibits fibrosis via TGF-β1 pathway in human lung fibroblasts. In Immunology Letters, 2015, vol. 165, p. 90–101. (2014: 2.512 - IF, Q3 - JCR, 1.207 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0165-2478. Dostupné na: https://doi.org/10.1016/j.imlet.2015.04.003

Citácie:
1. [1.1] ZHU, Y.H. - CHEN, L. - SONG, B.Y. - CUI, Z.W. - CHEN, G. - YU, Z. - SONG, B.Q. Insulin-like Growth Factor-2 (IGF-2) in Fibrosis. In BIOMOLECULES. NOV 2022, vol. 12, no. 11. Dostupné na: https://doi.org/10.3390/biom12111557, Registrované v: WOS

ADCA302 SCHULTHESS, B. - MEIER, S. - HOMEROVÁ, Dagmar - GOERKE, Ch. - WOLZ, Ch. - KORMANEC, Ján - BERGER-BAECCHI, B. - BISCHOFF, M. Functional characterization of the sigma(B)-dependent yabJ-spoVG operon in Staphylococcus aureus: role in Methicillin and Glycopeptide resistance. In Antimicrobial agents and chemotherapy, 2009, vol. 53, p. 1832-1839. (2008: 4.716 - IF, Q1 - JCR, 2.450 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0066-4804. Dostupné na: https://doi.org/10.1128/AAC.01255-08

Citácie:
1. [1.1] CHRISTOPOULOU, Niki - GRANNEMAN, Sander. The role of RNA-binding proteins in mediating adaptive responses in Gram-positive bacteria. In FEBS JOURNAL, 2022, vol. 289, no. 7, pp. 1746-1764. ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/febs.15810, Registrované v: WOS
2. [1.1] SIONOV, Ronit Vogt - STEINBERG, Doron. Targeting the Holy Triangle of Quorum Sensing, Biofilm Formation, and Antibiotic Resistance in Pathogenic Bacteria. In MICROORGANISMS, 2022, vol. 10, no. 6, pp. Dostupné na: https://doi.org/10.3390/microorganisms10061239, Registrované v: WOS
3. [1.2] WU, Ricardo A. - YUK, Hyun Gyun - LIAO, Xinyu - FENG, Jinsong - DING, Tian. Cross-Protection Response. In Stress Responses of Foodborne Pathogens, 2022-01-01, pp. 549-573. Dostupné na: https://doi.org/10.1007/978-3-030-90578-1_20, Registrované v: SCOPUS

ADCA303 SIRAJUDDIN, M. - FARKAŠOVSKÝ, Marian - ZENT, E. - WITTINGHOFER, A. GTP-induced conformational changes in septins and implications for function. In Proceedings of the National Academy of Sciences of the United States of America, 2009, vol. 106, no. 39, p. 16592-16597. (2008: 9.380 - IF, Q1 - JCR, 7.034 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.0902858106

Citácie:
1. [1.1] FISCHER, M. - FRANK, D. - ROESLER, R. - JOHNSSON, N. - GRONEMEYER, T. Biochemical Characterization of a Human Septin Octamer. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, MAR 3 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fcell.2022.771388, Registrované v: WOS
2. [1.1] KIM, O.V. - LITVINOV, R.I. - MORDAKHANOVA, E.R. - BI, E.F. - VAGIN, O. - WEISEL, J.W. Contribution of septins to human platelet structure and function. In ISCIENCE. JUL 15 2022, vol. 25, no. 7. Dostupné na: https://doi.org/10.1016/j.isci.2022.104654, Registrované v: WOS
3. [1.1] RUBIO-MIRANDA, J.A. - CáZARES-RAGA, F.E. - COY-ARECHAVALETA, A.S. - VIETTRI, M. - CORTES-MARTíNEZ, L. - LAGUNES-GUILLéN, A. - CHáVEZ-MUNGUíA, B. - LUDERT, J.E. - HERNáNDEZ-HERNáNDEZ, F.D. Septin 2 interacts with dengue virus replication complex proteins and participates in virus replication in mosquito cells. In VIROLOGY. ISSN 0042-6822, MAY 2022, vol. 570, p. 67-80. Dostupné na: https://doi.org/10.1016/j.virol.2022.03.007, Registrované v: WOS
4. [1.1] TóTH, V. - VADáSZI, H. - RAVASZ, L. - MITTLI, D. - MáTYáS, D. - MOLNáR, T. - MICSONAI, A. - SZANISZLó, T. - KOVáCS, R.A. - JUHáSZ, T. - BEKE-SOMFAI, T. - JUHáSZ, G. - GYöRFFY, B.A. - KéKESI, K.A. - KARDOS, J. - LORINCZ, P. Neuronal-specific septin-3 binds Atg8/LC3B, accumulates and localizes to autophagosomes during induced autophagy. In CELLULAR AND MOLECULAR LIFE SCIENCES. ISSN 1420-682X, SEP 2022, vol. 79, no. 9. Dostupné na: https://doi.org/10.1007/s00018-022-04488-8, Registrované v: WOS

ADCA304 SIRAJUDDIN, M. - FARKAŠOVSKÝ, Marian - HAUER, F. - KUHLMANN, D. - MACARA, I.G. - WEYAND, M. - STARK, H. - WITTINGHOFER, A. Structural insight into filament formation by mammalian septins. In Nature, 2007, vol. 449, p. 311-315. (2006: 26.681 - IF, Q1 - JCR, 9.702 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents, WOS, SCOPUS). ISSN 0028-0836. Dostupné na: https://doi.org/10.1038/nature06052

Citácie:
1. [1.1] BYEON, S. - WERNER, B. - FALTER, R. - DAVIDSEN, K. - SNYDER, C. - ONG, S.E. - YADAV, S. Proteomic Identification of Phosphorylation-Dependent Septin 7 Interactors that Drive Dendritic Spine Formation. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, MAY 4 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fcell.2022.836746, Registrované v: WOS
2. [1.1] DE FARIA, J.P. - VALE-SILVA, R.S. - FäSSLER, R. - WERNER, H.B. - RELVAS, J.B. Pinch2 regulates myelination in the mouse central nervous system. In DEVELOPMENT. ISSN 0950-1991, JUL 2022, vol. 149, no. 13. Dostupné na: https://doi.org/10.1242/dev.200597, Registrované v: WOS
3. [1.1] FISCHER, M. - FRANK, D. - ROESLER, R. - JOHNSSON, N. - GRONEMEYER, T. Biochemical Characterization of a Human Septin Octamer. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, MAR 3 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fcell.2022.771388, Registrované v: WOS
4. [1.1] FRAPPAOLO, A. - PIERGENTILI, R. - GIANSANTI, M.G. Microtubule and Actin Cytoskeletal Dynamics in Male Meiotic Cells of Drosophila melanogaster. In CELLS. FEB 2022, vol. 11, no. 4. Dostupné na: https://doi.org/10.3390/cells11040695, Registrované v: WOS
5. [1.1] GOENCZI, M. - RADULY, Z. - SZABO, L. - FODOR, J. - TELEK, A. - DOBROSI, N. - BALOGH, N. - SZENTESI, P. - KIS, G. - ANTAL, M. - TRENCSENYI, G. - DIENES, B. - CSERNOCH, L. - PROSSER, B.L. Septin7 is indispensable for proper skeletal muscle architecture

and function. In ELIFE. ISSN 2050-084X, AUG 5 2022, vol. 11. Dostupné na: https://doi.org/10.7554/eLife.75863, Registrované v: WOS

6. [1.1] HASSELL, D. - DENNEY, A. - SINGER, E. - BENSON, A. - ROTH, A. - CEGLOWSKI, J. - STEINGESSER, M. - MCMURRAY, M. Chaperone requirements for de novo folding of Saccharomyces cerevisiae septins. In MOLECULAR BIOLOGY OF THE CELL. ISSN 1059-1524, OCT 1 2022, vol. 33, no. 12. Dostupné na: https://doi.org/10.1091/mbc.E22-07-0262, Registrované v: WOS

7. [1.1] KUZMIC, M. - LINARES, G.C. - FIALOVá, J.L. - IV, F. - SALAüN, D. - LLEWELLYN, A. - GOMES, M. - BELHABIB, M. - LIU, Y.X. - ASANO, K. - RODRIGUES, M. - ISNARDON, D. - TACHIBANA, T. - KOENDERINK, G.H. - BADACHE, A. - MAVRAKIS, M. - VERDIER-PINARD, P. Septin-microtubule association via a motif unique to isoform 1 of septin 9 tunes stress fibers. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, JAN 2022, vol. 135, no. 1. Dostupné na: https://doi.org/10.1242/jcs.258850, Registrované v: WOS

8. [1.1] MARTINS, C.S. - TAVENEAU, C. - CASTRO-LINARES, G. - BAIBAKOV, M. - BUZHINSKY, N. - EROLES, M. - MILANOVIC, V. - OMI, S. - PEDELACQ, J.D. - IV, F. - BOUILLARD, L. - LLEWELLYN, A. - GOMES, M. - BELHABIB, M. - KUZMIC, M. - VERDIER-PINARD, P. - LEE, S.C. - BADACHE, A. - KUMAR, S. - CHANDRE, C. - BRASSELET, S. - RICO, F. - ROSSIER, O. - KOENDERINK, G.H. - WENGER, J. - CABANTOUS, S. - MAVRAKIS, M. Human septins organize as octamer-based filaments and mediate actin-membrane anchoring in cells. In JOURNAL OF CELL BIOLOGY. ISSN 0021-9525, DEC 23 2022, vol. 222, no. 3. Dostupné na: https://doi.org/10.1083/jcb.202203016, Registrované v: WOS

9. [1.1] MELA, A. - MOMANY, M. Septins coordinate cell wall integrity and lipid metabolism in a sphingolipid-dependent process. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, MAR 2022, vol. 135, no. 5, SI. Dostupné na: https://doi.org/10.1242/jcs.258336, Registrované v: WOS

10. [1.1] MENON, M.B. - GAESTEL, M. Editorial: Emerging Functions of Septins-Volume II. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JUN 16 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fcell.2022.949824, Registrované v: WOS

11. [1.1] RENELLA, R. - GAGNE, K. - BEAUCHAMP, E. - FOGEL, J. - PERLOV, A. - SOLA, M. - SCHLAEGER, T. - HOFMANN, I. - SHIMAMURA, A. - EBERT, B.L. - SCHMITZ-ABE, K. - MARKIANOS, K. - MURPHY, K. - SUN, L. - ROCKOWITZ, S. - SLIZ, P. - CAMPAGNA, D.R. - SPRINGER, T.A. - BAHL, C. - AGARWAL, S. - FLEMING, M.D. - WILLIAMS, D.A. Congenital X-linked neutropenia with myelodysplasia and somatic tetraploidy due to a germline mutation in SEPT6. In AMERICAN JOURNAL OF HEMATOLOGY. ISSN 0361-8609, JAN 1 2022, vol. 97, no. 1, p. 18-29. Dostupné na: https://doi.org/10.1002/ajh.26382, Registrované v: WOS

12. [1.1] SECHI, S. - PIERGENTILI, R. - GIANSANTI, M.G. Minor Kinases with Major Roles in Cytokinesis Regulation. In CELLS. NOV 2022, vol. 11, no. 22. Dostupné na: https://doi.org/10.3390/cells11223639, Registrované v: WOS

13. [1.1] SHUMAN, B. - MOMANY, M. Septins From Protists to People. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, JAN 17 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fcell.2021.824850, Registrované v: WOS

14. [1.1] WANG, G.X. - ZHU, X.Y. - GAO, Y. - LV, M.R. - LI, K.K. - TANG, D.D. - WU, H. - XU, C. - GENG, H. - SHEN, Q.S. - ZHA, X.M. - DUAN, Z.L. - ZHANG, J.J. - HUA, R. - TAO, F.B. - ZHOU, P. - WEI, Z.L. - CAO, Y.X. - GUO, R. - HE, X.J. Biallelic loss-of-function mutations in SEPT4 (C17ORF47), encoding a conserved annulus protein, cause thin midpiece spermatozoa and male infertility in humans. In HUMAN MUTATION. ISSN 1059-7794, DEC 2022, vol. 43, no. 12, p. 2079-2090. Dostupné na: https://doi.org/10.1002/humu.24475, Registrované v: WOS

15. [1.1] YAO, Y.K. - JIANG, P.D. - CHAO, B.N. - CAGDAS, D. - KUBO, S. - BALASUBRAMANIYAM, A. - ZHANG, Y. - SHADUR, B. - NASEREDDIN, A. - FOLIO, L.R. - SCHWARZ, B. - BOHRNSEN, E. - ZHENG, L.X. - LYNBERG, M. - GOTTLIEB, S. - LENEY-GREENE, M.A. - PARK, A.Y. - TEZCAN, I. - AKDOGAN, A. - GOCMEN, R. - ONDER, S. - ROSENBERG, A. - SOILLEUX, E.J. - JOHNSON, E. - JACKSON, P.K. - DEMETER, J. - CHAUVIN, S.D. - PAUL, F. - SELBACH, M. - BULUT, H. - CLATWORTHY, M.R. - TUONG, Z.K. - ZHANG, H.L. - STEWART, B.J. - BOSIO, C.M. - STEPENSKY, P. - CLARE, S. - GANESAN, S. - PASCALL, J.C. - DAUMKE, O. - BUTCHER, G.W. - MCMICHAEL, A.J. - SIMON, A.K. - LENARDO, M.J. GIMAP6 regulates autophagy, immune competence, and inflammation in mice and humans. In JOURNAL OF EXPERIMENTAL MEDICINE. ISSN 0022-1007, JUN 6 2022, vol. 219, no. 6. Dostupné na: https://doi.org/10.1084/jem.20201405, Registrované v: WOS

16. [1.1] ZHENG, S.N. - ZHENG, B.Y. - LIU, Z.B. - MA, X.P. - LIU, X. - YAO, X.B. - WEI, W.F. - FU, C.H. The Cdc42 GTPase-activating protein Rga6 promotes the cortical localization of septin. In JOURNAL OF CELL SCIENCE. ISSN 0021-9533, FEB 2022, vol. 135, no. 4. Dostupné na: https://doi.org/10.1242/jcs.259228, Registrované v: WOS

ADCA305 SMITH, A.T. - MAJTÁN, Tomáš - FREEMAN, K.M. - SU, Y. - KRAUS, J.P. - BURSTYN, J.N.

Cobalt cystathionine beta-synthase: a cobalt-substituted heme protein with a unique thiolate ligation motif. In Inorganic Chemistry, 2011, vol. 50, p. 4417-4427. (2010: 4.326 - IF, Q1 - JCR, 2.006 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0020-1669. Dostupné na: https://doi.org/10.1021/ic102586b

Citácie:

1. [1.1] KRUGER, Warren D. How to fix a broken protein: restoring function to mutant human cystathionine beta-synthase. In HUMAN GENETICS, 2022, vol. 141, no. 7, pp. 1299-1308. ISSN 0340-6717. Dostupné na: https://doi.org/10.1007/s00439-021-02386-w, Registrované v: WOS

2. [1.1] SHI, Shengchao - WU, Tao - ZHENG, Peng. Direct Measurements of the Cobalt-Thiolate Bonds Strength in Rubredoxin by Single-Molecule Force Spectroscopy. In CHEMBIOCHEM, 2022, vol. 23, no. 12, pp. ISSN 1439-4227. Dostupné na: https://doi.org/10.1002/cbic.202200165, Registrované v: WOS

ADCA306 SOBOLEV, E. - ZOLOTAREV, S. - GIEWEKEMEYER, K. - BIELECKI, J. - OKAMOTO, K. - BARÁK, Imrich - MAIA, Filip R.N.C.**. Megahertz single-particle imaging at the European XFEL. In Communications Physics, 2020, vol. 3, no. 97. (2019: 4.684 - IF, Q1 - JCR, 2.310 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2399-3650. Dostupné na: https://doi.org/10.1038/s42005-020-0362-y

Citácie:

1. [1.1] ASSALAUOVA, D. - IGNATENKO, A. - ISENSEE, F. - TROFIMOVA, D. - VARTANYANTS, I.A. Classification of diffraction patterns using a convolutional neural network in single-particle-imaging experiments performed at X-ray free-electron lasers. In JOURNAL OF APPLIED CRYSTALLOGRAPHY. ISSN 1600-5767, JUN 2022, vol. 55, 3, p. 444-454., Registrované v: WOS

2. [1.1] BUDEWIG, L. - SON, S.K. - SANTRA, R. Theoretical investigation of orbital alignment of x-ray-ionized atoms in exotic electronic configurations. In PHYSICAL REVIEW A. ISSN 2469-9926, MAR 29 2022, vol. 105, no. 3., Registrované v: WOS

3. [1.1] KOMOROWSKI, K. - PREOBRASCHENSKI, J. - GANZELLA, M. - ALFKEN, J. - NEUHAUS, C. - JAHN, R. - SALDITT, T. Neurotransmitter uptake of synaptic vesicles studied by X-ray diffraction. In EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS. ISSN 0175-7571, SEP 2022, vol. 51, no. 6, p. 465-482., Registrované v: WOS

4. [1.1] LATYCHEVSKAIA, T. - KOHLI, A. Low-dose shift- and rotation-invariant diffraction recognition imaging. In SCIENTIFIC REPORTS. ISSN 2045-2322, JUL 1 2022, vol. 12, no. 1., Registrované v: WOS

5. [1.1] NAKANO, M. - MIYASHITA, O. - JOTI, Y. - SUZUKI, A. - MITOMO, H. - NIIDA, Y. - YANG, Y. - YUMOTO, H. - KOYAMA, T. - TONO, K. - OHASHI, H. - YABASHI, M. - ISHIKAWA, T. - BESSHO, Y. - IJIRO, K. - NISHINO, Y. - TAMA, F. Three-dimensional structure determination of gold nanotriangles in solution using X-ray free-electron laser single-particle analysis. In OPTICA. ISSN 2334-2536, JUL 20 2022, vol. 9, no. 7, p. 776-784., Registrované v: WOS

6. [1.1] STRANSKY, M. - JUREK, Z. - SANTRA, R. - MANCUSO, A.P. - ZIAJA, B. Tree-Code Based Improvement of Computational Performance of the X-ray-Matter-Interaction Simulation Tool XMDYN. In MOLECULES. JUL 2022, vol. 27, no. 13., Registrované v: WOS

7. [1.1] SUN, Z.B. - AL HADDAD, A. - AUGUSTIN, S. - KNOPP, G. - KNURR, J. - SCHNORR, K. - BOSTEDT, C. Ultrafast Single-particle Imaging with Intense X-ray Pulses. In CHIMIA. ISSN 0009-4293, JUN 2022, vol. 76, no. 6, p. 529-537., Registrované v: WOS

8. [1.1] WELKER, S. - AMIN, M. - KUPPER, J. CMInject: Python framework for the numerical simulation of nanoparticle injection pipelines. In COMPUTER PHYSICS COMMUNICATIONS. ISSN 0010-4655, JAN 2022, vol. 270., Registrované v: WOS

9. [1.1] YOUNG, B.D. - COOK, M.E. - COSTABILE, B.K. - SAMANTA, R. - ZHUANG, X.H. - SEVDALIS, S.E. - VARNEY, K.M. - MANCIA, F. - MATYSIAK, S. - LATTMAN, E. - WEBER, D.J. Binding and Functional Folding (BFF): A Physiological Framework for Studying Biomolecular Interactions and Allostery. In JOURNAL OF MOLECULAR BIOLOGY. ISSN 0022-2836, DEC 15 2022, vol. 434, no. 23., Registrované v: WOS

ADCA307 SOJKA, M. - VALACHOVÁ, Ivana - BUČEKOVÁ, Marcela - MAJTÁN, Juraj. Antibiofilm efficacy of honey and bee-derived defensin-1 on multispecies wound biofilm. In Journal of Medical Microbiology, 2016, vol. 65, p. 337-344. (2015: 2.269 - IF, Q3 - JCR, 1.115 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-2615. Dostupné na: https://doi.org/10.1099/jmm.0.000227 (VEGA 2/0007/14 : Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán)

Citácie:

1. [1.1] ERBAN, T. - SHCHERBACHENKO, E. - TALACKO, P. - HARANT, K. Honey proteome of the bumblebee Bombus terrestris: similarities, differences, and exceptionality compared to honey bee honey as signatures of eusociality evolution. In APIDOLOGIE. ISSN

0044-8435, MAR 2022, vol. 53, no. 1. Dostupné na: https://doi.org/10.1007/s13592-022-00928-3, Registrované v: WOS
2. [1.1] FEKNOUS, N. - BOUMENDJEL, M. Natural bioactive compounds of honey and their antimicrobial activity. In CZECH JOURNAL OF FOOD SCIENCES. ISSN 1212-1800, 2022, vol. 40, no. 3, p. 163-178. Dostupné na: https://doi.org/10.17221/247/2021-CJFS, Registrované v: WOS
3. [1.1] LIAQAT, I. - GULAB, B. - HANIF, U. - SULTAN, A. - SADIQA, A. - ZAFAR, U. - AFZAAL, M. - NASEEM, S. - AKRAM, S. - SALEEM, G. Honey Potential as Antibiofilm, Antiquorum Sensing and Dispersal Agent against Multispecies Bacterial Biofilm. In JOURNAL OF OLEO SCIENCE. ISSN 1345-8957, 2022, vol. 71, no. 3, p. 425-434. Dostupné na: https://doi.org/10.5650/jos.ess21199, Registrované v: WOS
4. [1.1] LIN, T.X. - HUANG, L. - CHENG, N.N. - WANG, Y.Z. - NING, Z. - HUANG, S.K. - WU, Y.H. - CHEN, T.B. - SU, S.K. - LIN, Y. The in vitro and in vivo antibacterial activities of uniflorous honey from a medicinal plant, Scrophularia ningpoensis Hemsl., and characterization of its chemical profile with UPLC-MS/MS. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, OCT 5 2022, vol. 296. Dostupné na: https://doi.org/10.1016/j.jep.2022.115499, Registrované v: WOS
5. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS
6. [1.1] RASHID, N.A. - MOHAMMED, S.N.F. - HALIM, S.A.S.A. - GHAFAR, N.A. - JALIL, N.A.A. Therapeutic Potential of Honey and Propolis on Ocular Disease. In PHARMACEUTICALS. NOV 2022, vol. 15, no. 11. Dostupné na: https://doi.org/10.3390/ph15111419, Registrované v: WOS
7. [1.1] WIEDERHOLD, N.P. - PATTERSON, T.F. - REBHOLZ, S. - BOAL, C.W.C. - EHRENSBERGER, M. - BOYLE, R. - CUSHION, M.T. The Antifungal and Anti-Pneumocystis Activities of the Novel Compound A3IS (Mycosinate). In ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. ISSN 0066-4804, AUG 16 2022, vol. 66, no. 8. Dostupné na: https://doi.org/10.1128/aac.00521-22, Registrované v: WOS
8. [1.2] ANSAR, Waiza - LIAQAT, Iram. Insect-derived antimicrobial peptides: A novel strategy for biofilm inhibition. In Understanding Antibiofilm Activity, 2022-06-22, pp. 109-135., Registrované v: SCOPUS
9. [1.2] KUREK-GÓRECKA, Anna - OLCZYK, Paweł. Bee products and skin therapy. In Bee Products and Their Applications in the Food and Pharmaceutical Industries, 2022-01-01, pp. 25-62. Dostupné na: https://doi.org/10.1016/B978-0-323-85400-9.00016-2, Registrované v: SCOPUS

ADCA308 SOUDI, M. - ZÁMOCKÝ, Marcel - JAKOPITSCH, C. - FURTMULLER, P.G. - OBINGER, C. Molecular evolution, structure, and function of peroxidasins. In Chemistry & biodiversity, 2012, vol. 9, p. 1776-1793. (2011: 1.804 - IF, Q2 - JCR, 0.597 - SJR, Q2 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 1612-1872. Dostupné na: https://doi.org/10.1002/cbdv.201100438

Citácie:
1. [1.1] ARNHOLD, J. - MALLE, E. Halogenation Activity of Mammalian Heme Peroxidases. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5., Registrované v: WOS
2. [1.1] SOJOODI, M. - ERSTAD, D.J. - BARRETT, S.C. - SALLOUM, S. - ZHU, S.J. - QIAN, T.Q. - COLON, S. - GALE, E.M. - JORDAN, V.C. - WANG, Y.T. - LI, S. - ATAEINIA, B. - JALILIFIROOZINEZHAD, S. - LANUTI, M. - ZUKERBERG, L. - CARAVAN, P. - HOSHIDA, Y. - CHUNG, R.T. - BHAVE, G. - LAUER, G.M. - FUCHS, B.C. - TANABE, K.K. Peroxidasin Deficiency Re-programs Macrophages Toward Pro-fibrolysis Function and Promotes Collagen Resolution in Liver. In CELLULAR AND MOLECULAR GASTROENTEROLOGY AND HEPATOLOGY. ISSN 2352-345X, 2022, vol. 13, no. 5, p. 1483-1509., Registrované v: WOS
3. [1.2] FU, Minyi - LUO, Fangmei - LIU, Bin. Research progress of vascular peroxidase 1 mediated oxidative stress in cardiovascular diseases. In Zhongguo Dongmai Yinghua Zazhi, 2021-01-01, 29, 11, pp. ISSN 10073949., Registrované v: SCOPUS

ADCA309 STAHLBERG, H. - KUTEJOVÁ, Eva - MUCHOVÁ, Katarína - GREGORINI, M. - LUSTIG, A. - MULLER, S.A. - OLIVIERI, V. - ENGEL, A. - WILKINSON, A.J. - BARÁK, Imrich. Oligomeric structure of the Bacillus subtilis cell division protein DivIVA determined by transmission electron microscopy. In Molecular Microbiology, 2004, vol. 52, p. 1281-1290. ISSN 0950-382X. Dostupné na: https://doi.org/10.1111/j.1365-2958.2004.04074.x

Citácie:
1. [1.1] DEMPWOLFF, Felix - KEARNS, Daniel B. TnFLXopen: Markerless Transposons for Functional Fluorescent Fusion Proteins and Protein Interaction Prediction. In MICROBIOLOGY SPECTRUM, 2022, vol. 10, no. 3, pp. ISSN 2165-0497. Dostupné na:

https://doi.org/10.1128/spectrum.02428-21, Registrované v: WOS

ADCA310 STAHLBERG, H. - KUTEJOVÁ, Eva - SUDA, K. - WOLPENSINGER, B. - LUSTIG, A. - SCHATZ, G. - ENGEL, A. - SUZUKI, C.K. Mitochondrial Lon of Saccharomyces cerevisiae is a ring-shaped protease with seven flexible subunits. In Proceedings of the National Academy of Sciences of the United States of America, 1999, vol. 96, p. 6787-6790. ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.96.12.6787

Citácie:

1. [1.1] NITIKA - ZHENG, Bo - RUAN, Linhao - KLINE, Jake T. - OMKAR, Siddhi - SIKORA, Jacek - TORRES, Mara Texeira - WANG, Yuhao - TAKAKUWA, Jade E. - HUGUET, Romain - KLEMM, Cinzia - SEGARRA, Veronica A. - WINTERS, Matthew J. - PRYCIAK, Peter M. - THORPE, Peter H. - TATEBAYASHI, Kazuo - LI, Rong - FORNELLI, Luca - TRUMAN, Andrew W. Comprehensive characterization of the Hsp70 interactome reveals novel client proteins and interactions mediated by posttranslational modifications. In PLOS BIOLOGY, 2022, vol. 20, no. 10, pp. ISSN 1544-9173. Dostupné na: https://doi.org/10.1371/journal.pbio.3001839, Registrované v: WOS

2. [1.1] SZCZEPANOWSKA, Karolina - TRIFUNOVIC, Aleksandra. Mitochondrial matrix proteases: quality control and beyond. In FEBS JOURNAL, 2022, vol. 289, no. 22, pp. 7128-7146. ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/febs.15964, Registrované v: WOS

3. [1.1] YANG, Jie - SONG, Albert S. - WISEMAN, R. Luke C. - LANDER, Gabriel. Cryo-EM structure of hexameric yeast Lon protease (PIM1) highlights the importance of conserved structural elements. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2022, vol. 298, no. 3, pp. Dostupné na: https://doi.org/10.1016/j.jbc.2022.101694, Registrované v: WOS

ADCA311 STANO, Matej - KĽUČÁR, Ľuboš. phiGENOME: An integrative navigation throughout bacteriophage genomes. In Genomics, 2011, vol. 98, p. 376-380. (2010: 3.327 - IF, Q1 - JCR, 1.928 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0888-7543. Dostupné na: https://doi.org/10.1016/j.ygeno.2011.07.004

Citácie:

1. [1.1] SANDLIN, Natalie - KISH, Darius Russell - KIM, John - ZACCARIA, Marco - MOMENI, Babak. Current and Emerging Tools of Computational Biology To Improve the Detoxification of Mycotoxins. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 2022, vol. 88, no. 3, pp. ISSN 0099-2240. Dostupné na: https://doi.org/10.1128/aem.02102-21, Registrované v: WOS

ADCA312 STEFANKOVA, P. - KOLLÁROVÁ, M - BARÁK, Imrich. Thioredoxin - structural and functional complexity. In General physiology and biophysics : an international journal, 2005, vol. 24, p. 3-11. (2004: 0.694 - IF, karentované - CCC). (2005 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] SEQUEIRA, Joao G. N. - RODRIGUES, Filipe E. P. - SILVA, Telmo G. D. - REIS, Pedro B. P. S. - MACHUQUEIRO, Miguel. Extending the Stochastic Titration CpHMD to CHARMM36m. In JOURNAL OF PHYSICAL CHEMISTRY B, 2022, vol. 126, no. 40, pp. 7870-7882. ISSN 1520-6106. Dostupné na: https://doi.org/10.1021/acs.jpcb.2c04529, Registrované v: WOS

ADCA313 STEFANKOVA, P. - PEREČKO, D. - BARÁK, Imrich - KOLLÁROVÁ, M. The thioredoxin system from Streptomyces coelicolor. In Journal of Basic Microbiology, 2006, vol. 46, p. 47 - 55. (2005: 1.000 - IF, Q4 - JCR, 0.428 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0233-111X. Dostupné na: https://doi.org/10.1002/jobm.200510036

Citácie:

1. [1.1] PAUNKOV, Ana - KUPC, Malgorzata - SOKI, Jozsef - LEITSCH, David. Characterization of the components of the thioredoxin system in Bacteroides fragilis and evaluation of its activity during oxidative stress. In ANAEROBE, 2022, vol. 73, no., pp. ISSN 1075-9964. Dostupné na: https://doi.org/10.1016/j.anaerobe.2021.102507, Registrované v: WOS

ADCA314 STINGLEY, R.L. - BREZNA, B. - KHAN, A.A. - CERNIGLIA, C.E. Novel organization of genes in a phthalate degradation operon of Mycobacterium vanbaalenii PYR 1. In Microbiology, 2004, vol. 150, p. 3749-3761. ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.27263-0

Citácie:

1. [1.1] FAN, X.L. - GU, C.G. - CAI, J. - ZHONG, M. - BIAN, Y.R. - JIANG, X. Mechanistic insights into primary biotransformation of diethyl phthalate in earthworm and significant SOD inhibitory effect of esterolytic products. In CHEMOSPHERE. ISSN 0045-6535, FEB 2022, vol. 288, 1. Dostupné na: https://doi.org/10.1016/j.chemosphere.2021.132491, Registrované v: WOS

2. [1.1] GUO, P. - JIN, L.G. - CUI, W.T. - YANG, Y. - CHENG, Y.J. - WANG, D.P. - PAN, Y.H. - JIN, J.H. Proteomics analysis of pyrene biodegradation using strain Mycobacterium sp. 16F. In ENVIRONMENTAL POLLUTANTS AND BIOAVAILABILITY. ISSN 2639-5932, DEC 31 2022, vol. 34, no. 1, p. 236-245. Dostupné na: https://doi.org/10.1080/26395940.2022.2081613, Registrované v: WOS

3. [1.1] LAHIRI, D. - NAG, M. - DEY, A. - SARKAR, T. - JOSHI, S. - PANDIT, S. - DAS, A.P. -

PATI, S. - PATTANAIK, S. - TILAK, V.K. - RAY, R.R. Biofilm Mediated Degradation of Petroleum Products. In GEOMICROBIOLOGY JOURNAL. ISSN 0149-0451, MAY 2 2022, vol. 39, no. 3-5, SI, p. 389-398. Dostupné na: https://doi.org/10.1080/01490451.2021.1968979, Registrované v: WOS

4. [1.1] SONG, X.Y. - ZHANG, Z.H. - DAI, Y.R. - CUN, D.S. - CUI, B.H. - WANG, Y.W. - FAN, Y.C. - TANG, H.B. - QIU, L. - WANG, F.H. - QIU, D.R. - LIANG, W. Biodegradation of phthalate acid esters by a versatile PAE-degrading strain Rhodococcus sp. LW-XY12 and associated genomic analysis. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, MAY 2022, vol. 170. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105399, Registrované v: WOS

5. [1.2] MOHAPATRA, Balaram - DHAMALE, Tushar - SAHA, Braja Kishor - PHALE, Prashant S. Microbial degradation of aromatic pollutants: metabolic routes, pathway diversity, and strategies for bioremediation. In Microbial Biodegradation and Bioremediation: Techniques and Case Studies for Environmental Pollution, 2022-01-01, pp. 365-394. Dostupné na: https://doi.org/10.1016/B978-0-323-85455-9.00006-0, Registrované v: SCOPUS

ADCA315 STUDHOLME, D.J. - BENTLEY, S.D. - KORMANEC, Ján. Bioinformatic identification of novel regulatory DNA sequence motifs in Streptomyces coelicolor. In BMC Microbiology, 2004, vol. 4, art. no. 14. Dostupné na: https://doi.org/10.1186/1471-2180-4-14

Citácie:

1. [1.1] ANDERSSEN, Sinaeda - NAOME, Aymeric - JADOT, Cedric - BRANS, Alain - TOCQUIN, Pierre - RIGALI, Sebastien. AURTHO: Autoregulation of transcription factors as facilitator of cis-acting element discovery. In BIOCHIMICA ET BIOPHYSICA ACTA-GENE REGULATORY MECHANISMS, 2022, vol. 1865, no. 5, pp. ISSN 1874-9399. Dostupné na: https://doi.org/10.1016/j.bbagrm.2022.194847, Registrované v: WOS

ADCA316 SU, Y. - MAJTÁN, Tomáš - FREEMAN, K.M. - LINCK, R. - PONTER, S. - KRAUS, J.P. - BURSTYN, J.N. Comparative study of enzyme activity and heme reactivity in drosophila melanogasterand homo sapiens cystathionine β-Synthases. In Biochemistry, 2013, vol. 52, p. 741–751. (2012: 3.377 - IF, Q2 - JCR, 2.076 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0006-2960. Dostupné na: https://doi.org/10.1021/bi300615c

Citácie:

1. [1.1] GOH, N.Y. - RAZIF, M.F.M. - YAP, Y.H.Y. - NG, C.L. - FUNG, S.Y. In silico analysis and characterization of medicinal mushroom cystathionine beta-synthase as an angiotensin converting enzyme (ACE) inhibitory protein. In COMPUTATIONAL BIOLOGY AND CHEMISTRY. ISSN 1476-9271, FEB 2022, vol. 96. Dostupné na: https://doi.org/10.1016/j.compbiolchem.2021.107620, Registrované v: WOS

ADCA317 SUPPER, V. - SCHILLER, H.B. - PASTER, W. - FORSTER, F. - BOULEGUE, C. - MITULOVIC, G. - LEKSA, Vladimír - OHRADANOVA-REPIC, A. - MACHACEK, C. - SCHATZLMAIER, P. - ZLABINGER, G. - STOCKINGER, H. Association of CD147 and calcium exporter PMCA4 uncouples IL-2 expression from early TCR signaling. In Journal of immunology, 2016, vol. 196, p. 1387-1399. (2015: 4.985 - IF, Q1 - JCR, 3.571 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0022-1767. Dostupné na: https://doi.org/10.4049/jimmunol.1501889

Citácie:

1. [1.1] GROOMES, P.V. - KANJEE, U. - DURAISINGH, M.T. RBC membrane biomechanics and Plasmodium falciparum invasion: probing beyond ligand-receptor interactions. In TRENDS IN PARASITOLOGY. ISSN 1471-4922, APR 2022, vol. 38, no. 4, p. 302-315. Dostupné na: https://doi.org/10.1016/j.pt.2021.12.005, Registrované v: WOS

2. [1.1] HEGEDüS, L. - LIVINGSTONE, E. - BáNKFALVI, A. - VIEHOF, J. - ENYEDI, A. - BILECZ, A. - GYORFFY, B. - BARANYI, M. - TOKéS, A.M. - GIL, J. - MARKO-VARGA, G. - GRIEWANK, K.G. - ZIMMER, L. - VáRALJAI, R. - SUCKER, A. - ZAREMBA, A. - SCHADENDORF, D. - AIGNER, C. - HEGEDüS, B. The Prognostic Relevance of PMCA4 Expression in Melanoma: Gender Specificity and Implications for Immune Checkpoint Inhibition. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, MAR 2022, vol. 23, no. 6. Dostupné na: https://doi.org/10.3390/ijms23063324, Registrované v: WOS

ADCA318 ŠEDIVÁ, Mária - LAHO, Maroš - KOHÚTOVÁ, Lenka - MOJŽIŠOVÁ, Andrea - MAJTÁN, Juraj - KLAUDINY, Jaroslav**. 10-HDA, a major fatty acid of royal jelly, exhibitis pH dependent gowth-inhibitory activity against different strains of Paenibacillus larvae. In Molecules, 2018, vol. 23, iss. 12, art. no. 3236, 14 p. (2017: 3.098 - IF, Q2 - JCR, 0.855 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules23123236

Citácie:

1. [1.1] BAGAMERI, L. - BACI, G.M. - DEZMIREAN, D.S. Royal Jelly as a Nutraceutical Natural Product with a Focus on Its Antibacterial Activity. In PHARMACEUTICS. JUN 2022, vol. 14, no. 6., Registrované v: WOS

2. [1.1] SPANIDI, E. - ATHANASOPOULOU, S. - LIAKOPOULOU, A. - CHAIDOU, A. - HATZIANTONIOU, S. - GARDIKIS, K. Royal Jelly Components Encapsulation in a Controlled Release System-Skin Functionality, and Biochemical Activity for Skin Applications. In PHARMACEUTICALS. AUG 2022, vol. 15, no. 8., Registrované v: WOS
3. [1.1] SU, S.X. - LI, S.S. - HU, J. - YU, T. - TAO, L.C. - HU, F.L. - XIANYU, Y.L. A colorimetric sensing strategy for detecting 10-hydroxy-2-decenoic acid in royal jelly based on Ag(I)-tetramethylbenzidine. In SENSORS AND ACTUATORS B-CHEMICAL. MAR 1 2022, vol. 354., Registrované v: WOS
4. [1.2] ECEM BAYRAM, Nesrin - ÇEBI, Nur - ÇELIK, Saffet - GERÇEK, Yusuf Can - BAYRAM, Sinan - TANUĞUR SAMANCI, Aslı Elif - SAĞDIÇ, Osman - ÖZKÖK, Aslı. Turkish royal jelly: amino acid, physicochemical, antioxidant, multi-elemental, antibacterial and fingerprint profiles by analytical techniques combined with chemometrics. In Journal of Apicultural Research, 2021-01-01, 60, 5, pp. 751-764. ISSN 00218839. Dostupné na: https://doi.org/10.1080/00218839.2021.1889222, Registrované v: SCOPUS
5. [1.2] KUREK-GÓRECKA, Anna - OLCZYK, Paweł. Bee products and skin therapy. In Bee Products and Their Applications in the Food and Pharmaceutical Industries, 2022-01-01, pp. 25-62. Dostupné na: https://doi.org/10.1016/B978-0-323-85400-9.00016-2, Registrované v: SCOPUS

ADCA319 ŠEVČÍK, Jozef - SOLOVIČOVÁ, A. - HOSTINOVÁ, Eva - GAŠPERÍK, Juraj - WILSON, K.S. - DAUTER, Z. Structure of glucoamylase from Saccharomycopsis fibuligera at 1.7 angstrom resolution. In Acta Crystallographica D, 1998, vol. 54, p. 854-866. ISSN 2059-7983. Dostupné na: https://doi.org/10.1107/S0907444998002005

Citácie:
1. [1.1] FEDIK, Nikita - ZUBATYUK, Roman - KULICHENKO, Maksim - LUBBERS, Nicholas - SMITH, Justin S. - NEBGEN, Benjamin - MESSERLY, Richard - LI, Ying Wai - BOLDYREV, Alexander - BARROS, Kipton - ISAYEV, Olexandr - TRETIAK, Sergei. Extending machine learning beyond interatomic potentials for predicting molecular properties. In NATURE REVIEWS CHEMISTRY, 2022, vol. 6, no. 9, pp. 653-672. Dostupné na: https://doi.org/10.1038/s41570-022-00416-3, Registrované v: WOS

ADCA320 ŠEVČÍK, Jozef - HOSTINOVÁ, Eva - SOLOVIČOVÁ, A. - GAŠPERÍK, Juraj - DAUTER, Z. - WILSON, K.S. Structure of the complex of a yeast glucoamylase with acarbose reveals the presence of a raw starch binding site on catalytic domain. In FEBS Journal, 2006, vol. 273, p. 2161-2171. (2005: Q4 - JCR, 1.772 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2006.05230.x

Citácie:
1. [1.1] LIU, Dandan - LIU, Qian - GUO, Wenzhu - LIU, Yin - WU, Min - ZHANG, Yongli - LI, Jingen - SUN, Wenliang - WANG, Xingji - HE, Qun - TIAN, Chaoguang. Development of Genetic Tools in Glucoamylase-Hyperproducing Industrial Aspergillus niger Strains. In BIOLOGY-BASEL, 2022, vol. 11, no. 10, pp. Dostupné na: https://doi.org/10.3390/biology11101396, Registrované v: WOS

ADCA321 ŠEVČÍK, Jozef - DODSON, E.J. - DODSON, G.G. Determination and Restrained Least Squares Refinement of the Crystal Structure of ribonuclease Sa and its complex with 3';-guanylic acid at 1.8 angstrom resolution. In Acta Crystallographica Section B, 1991, vol. 47, p. 240-253. ISSN 0108-7681. Dostupné na: https://doi.org/10.1107/S0108768190009569

Citácie:
1. [1.1] ULYANOVA, V. - NADYROVA, A. - DUDKINA, E. - KUZNETSOVA, A. - AHMETGALIEVA, A. - FAIZULLIN, D. - SURCHENKO, Y. - NOVOPASHINA, D. - ZUEV, Y. - KUZNETSOV, N. - ILINSKAYA, O. Structural and Functional Differences between Homologous Bacterial Ribonucleases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. FEB 2022, vol. 23, no. 3. Dostupné na: https://doi.org/10.3390/ijms23031867, Registrované v: WOS

ADCA322 ŠEVČÍK, Jozef - URBÁNIKOVÁ, Ľubica - DAUTER, Z. - WILSON, K.S. Recognition of RNase Sa by the inhibitor barstar: crystal structure of the complex at 1.7 angstrom resolution. In Acta Crystallographica D, 1998, vol. 54, p. 954-963. ISSN 2059-7983. Dostupné na: https://doi.org/10.1107/S0907444998004429

Citácie:
1. [1.1] MARTIN, Juliette - FREZZA, Elisa. A dynamical view of protein-protein complexes: Studies by molecular dynamics simulations. In FRONTIERS IN MOLECULAR BIOSCIENCES, 2022, vol. 9, no., pp. Dostupné na: https://doi.org/10.3389/fmolb.2022.970109, Registrované v: WOS
2. [1.1] POZZATI, Gabriele - ZHU, Wensi - BASSOT, Claudio - LAMB, John - KUNDROTAS, Petras - ELOFSSON, Arne. Limits and potential of combined folding and docking. In BIOINFORMATICS, 2022, vol. 38, no. 4, pp. 954-961. ISSN 1367-4803. Dostupné na: https://doi.org/10.1093/bioinformatics/btab760, Registrované v: WOS

ADCA323 ŠEVČÍK, Jozef - URBÁNIKOVÁ, Ľubica - LELAND, P.A. - RAINES, R.T. X-ray structure of two crystalline forms of a Streptomycete ribonuclease with cytotoxic activity. In Journal of Biological Chemistry, 2002, vol. 277, p. 47325-47330. (2001: 7.258 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.M208425200

Citácie:

1. [1.1] ULYANOVA, Vera - NADYROVA, Alsu - DUDKINA, Elena - KUZNETSOVA, Aleksandra - AHMETGALIEVA, Albina - FAIZULLIN, Dzhigangir - SURCHENKO, Yulia - NOVOPASHINA, Darya - ZUEV, Yuriy - KUZNETSOV, Nikita - ILINSKAYA, Olga. Structural and Functional Differences between Homologous Bacterial Ribonucleases. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 3, pp. Dostupné na: https://doi.org/10.3390/ijms23031867, Registrované v: WOS

ADCA324 ŠEVČÍK, Jozef - ZEGERS, I. - WYNS, L. - DAUTER, Z. - WILSON, K.S. Complex of ribonuclease sa with a cyclic-nucleotide and a proposed model for the reaction intermediate. In European Journal of Biochemistry, 1993, vol. 216, p. 301-305. Dostupné na: https://doi.org/10.1111/j.1432-1033.1993.tb18145.x

Citácie:

1. [1.1] YU, V. - RONZONE, E. - LORD, D. - PETI, W. - PAGE, R. MqsR is a noncanonical microbial RNase toxin that is inhibited by antitoxin MqsA via steric blockage of substrate binding. In JOURNAL OF BIOLOGICAL CHEMISTRY. NOV 2022, vol. 298, no. 11. Dostupné na: https://doi.org/10.1016/j.jbc.2022.102535, Registrované v: WOS

ADCA325 ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - KORMANEC, Ján. The anti-aAnti-sigma factor BldG is involved in activation of the stress response sigma factor SigH in Streptomyces coelicolor A3(2). In Journal of Bacteriology, 2010, vol. 192, p. 5674-5681. (2009: 3.940 - IF, 2.710 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0021-9193. Dostupné na: https://doi.org/10.1128/JB.00828-10

Citácie:

1. [1.1] CLARA, Lejeune - DAVID, Cornu - LAILA, Sago - VIRGINIE, Redeker - MARIE-JOELLE, Virolle. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232314792, Registrované v: WOS

2. [1.1] OTANI, Hiroshi - MOUNCEY, Nigel J. RIViT-seq enables systematic identification of regulons of transcriptional machineries. In NATURE COMMUNICATIONS, 2022, vol. 13, no. 1, pp. Dostupné na: https://doi.org/10.1038/s41467-022-31191-w, Registrované v: WOS

ADCA326 ŠEVČÍKOVÁ, Beatrica - BENADA, O. - KOFRONOVA, O. - KORMANEC, Ján. Stress-response sigma factor sigmaH is essential for morphological differentiation of Streptomyces coelicolor A3(2). In Archives of Microbiology, 2001, vol. 177, p. 98-106. ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-001-0367-1

Citácie:

1. [1.1] CLARA, Lejeune - DAVID, Cornu - LAILA, Sago - VIRGINIE, Redeker - MARIE-JOELLE, Virolle. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 23, pp. Dostupné na: https://doi.org/10.3390/ijms232314792, Registrované v: WOS

ADCA327 ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján. Differential production of two antibiotics of Streptomyces coelicolor A3(2), actinorhodin and undecylprodigiosin, upon salt stress conditions. In Archives of Microbiology, 2004, vol. 181, p. 384-389. ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-004-0669-1

Citácie:

1. [1.1] ABDEL-RAFEI, Mohamed K. - THABET, Noura M. - AMIN, Mohamed M. Concerted regulation of OPG/RANKL/NF-kappa B/MMP-13 trajectories contribute to ameliorative capability of prodigiosin and/or low dose gamma-radiation against adjuvant- induced arthritis in rats. In INTERNATIONAL IMMUNOPHARMACOLOGY, 2022, vol. 111, no., pp. ISSN 1567-5769. Dostupné na: https://doi.org/10.1016/j.intimp.2022.109068, Registrované v: WOS

2. [1.1] FINGER, Maurice - PALACIO-BARRERA, Ana M. - RICHTER, Paul - SCHLEMBACH, Ivan - BUECHS, Jochen - ROSENBAUM, Miriam A. Tunable population dynamics in a synthetic filamentous coculture. In MICROBIOLOGYOPEN, 2022, vol. 11, no. 5, pp. ISSN 2045-8827. Dostupné na: https://doi.org/10.1002/mbo3.1324, Registrované v: WOS

3. [1.1] YANAGISAWA, Masaomi - ASAMIZU, Shumpei - SATOH, Katsuya - OONO, Yutaka - ONAKA, Hiroyasu. Effects of carbon ion beam-induced mutagenesis for the screening of RED production-deficient mutants of Streptomyces coelicolor JCM4020. In PLOS ONE, 2022, vol. 17, no. 7, pp. ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0270379, Registrované v: WOS

ADCA328 ŠEVČÍKOVÁ, Beatrica - KORMANEC, Ján. The sgB gene, encoding a member of the regulon of stress-response sigma factor sigmaH, is essential for aerial mycelium septation in Streptomyces coelicolor A3(2). In Archives of Microbiology, 2003, vol. 180, p. 380-384. ISSN 0302-8933. Dostupné na: https://doi.org/10.1007/s00203-003-0603-y

Citácie:

1. [1.1] FALGUERA, Jan V. T. - STRATTON, Kathryn J. - BUSH, Matthew J. - JANI, Charul - FINDLAY, Kim C. - SCHLIMPERT, Susan - NODWELL, Justin R. DNA damage- induced block of sporulation in Streptomyces venezuelae involves downregulation of ssgB. In MICROBIOLOGY-SGM, 2022, vol. 168, no. 6, pp. ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.001198, Registrované v: WOS

2. [1.1] ZHANG, Peipei - ZHANG, Kunyu - LIU, Yayu - FU, Jiafang - ZONG, Gongli - MA, Xin - CAO, Guangxiang. Deletion of the Response Regulator PhoP Accelerates the Formation of Aerial Mycelium and Spores in Actinosynnema pretiosum. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.845620, Registrované v: WOS

ADCA329 ŠEVČÍKOVÁ, Beatrica - REŽUCHOVÁ, Bronislava - MINGYAR, Erik - HOMEROVÁ, Dagmar - NOVÁKOVÁ, Renáta - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. Pleiotropic anti-anti-sigma factor BldG is phosphorylated by several anti-sigma factor kinases in the process of activating multiple sigma factors in Streptomyces coelicolor A3(2). In Gene, 2020, vol. 755, no. 144883. (2019: 2.984 - IF, Q2 - JCR, 0.898 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2020.144883

Citácie:

1. [1.1] CLARA, L. - DAVID, C. - LAILA, S. - VIRGINIE, R. - MARIE-JOELLE, V. Comparative Proteomic Analysis of Transcriptional and Regulatory Proteins Abundances in S. lividans and S. coelicolor Suggests a Link between Various Stresses and Antibiotic Production. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2022, vol. 23, no. 23., Registrované v: WOS

2. [1.1] OTANI, H. - MOUNCEY, N.J. RIViT-seq enables systematic identification of regulons of transcriptional machineries. In NATURE COMMUNICATIONS. JUN 17 2022, vol. 13, no. 1., Registrované v: WOS

ADCA330 ŠIMONOVIČOVÁ, A. - KRAKOVÁ, Lucia - PAUDITŠOVÁ, E. - PANGALLO, Domenico**. Occurrence and diversity of cultivable autochthonous microscopic fungi in substrates of old environmental loads from mining activities in Slovakia. In Ecotoxicology and environmental safety, 2019, vol. 172, p. 194-202. (2018: 4.527 - IF, Q1 - JCR, 1.174 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0147-6513. Dostupné na: https://doi.org/10.1016/j.ecoenv.2019.01.064

Citácie:

1. [1.1] DUSENGEMUNGU, L. - GWANAMA, C. - SIMUCHIMBA, G. - MUBEMBA, B. Potential of bioaugmentation of heavy metal contaminated soils in the Zambian Copperbelt using autochthonous filamentous fungi. In FRONTIERS IN MICROBIOLOGY. DEC 1 2022, vol. 13., Registrované v: WOS

2. [1.1] TAN, H.X. - LIU, X.X. - YIN, S. - ZHAO, C. - SU, L.T. - WANG, S. - KHALID, M. - SETALA, H. - HUI, N. Soil microbiota associated with immune-mediated disease was influenced by heavy metal stress in roadside soils of Shanghai. In JOURNAL OF HAZARDOUS MATERIALS. ISSN 0304-3894, SEP 15 2022, vol. 438., Registrované v: WOS

3. [1.1] URHIE, O.E. - OLOWOYO, J.O. - ADENIPEKUN, C.O. - OGUNJOBI, A.A. - URHIE, J.E. Variations in the Chemical Properties and Heavy Metal Concentrations of Transformer Oil Polluted Soil Inoculated with two Lower Fungi. In POLISH JOURNAL OF ENVIRONMENTAL STUDIES. ISSN 1230-1485, 2022, vol. 31, no. 5, p. 4291-4298., Registrované v: WOS

ADCA331 ŠIMONOVIČOVÁ, A. - KRAKOVÁ, Lucia - PANGALLO, Domenico - MAJOROŠOVÁ, M. - PIECKOVÁ, E. - BODORÍKOVÁ, Silvia - DÖRNHOFEROVÁ, M. Fungi on mummified human remains and in the indoor air in the Kuffner family crypt in Sládkovičovo (Slovakia). In International Biodeterioration & Biodegradation, 2015, vol. 99, p. 157–164. (2014: 2.131 - IF, Q2 - JCR, 0.879 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2014.12.011

Citácie:

1. [1.2] DE NUNTIIS, Paola - PALLA, Franco. Bioaerosol. In Biotechnology and Conservation of Cultural Heritage, 2022-06-28, pp. 31-50. Dostupné na: https://doi.org/10.1007/978-3-030-97585-2_2, Registrované v: SCOPUS

ADCA332 ŠIMONOVIČOVÁ, A. - FERIANC, Peter - VOJTKOVÁ, Hana - PANGALLO, Domenico - HANAJIK, P. - KRAKOVÁ, Lucia - FEKETEOVÁ, Zuzana - ČERŇANSKÝ, S. - OKENICOVÁ, L. - ŽEMBERYOVÁ, Mária - BUJDOŠ, M. - PAUDITŠOVÁ, E. Alkaline Technosol contaminated by former mining activity and its culturable autochthonous microbiota. In Chemosphere, 2017, vol. 171, p. 89–96. (2016: 4.208 - IF, Q1 - JCR, 1.447 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current

Contents). ISSN 0045-6535. Dostupné na: https://doi.org/10.1016/j.chemosphere.2016.11.131

Citácie:

1. [1.1] GOROVTSOV, A. - DEMIN, K. - SUSHKOVA, S. - MINKINA, T. - GRIGORYEVA, T. - DUDNIKOVA, T. - BARBASHEV, A. - SEMENKOV, I. - ROMANOVA, V. - LAIKOV, A. - RAJPUT, V. - KOCHAROVSKAYA, Y. The effect of combined pollution by PAHs and heavy metals on the topsoil microbial communities of Spolic Technosols of the lake Atamanskoe, Southern Russia. In ENVIRONMENTAL GEOCHEMISTRY AND HEALTH. ISSN 0269-4042, APR 2022, vol. 44, no. 4, SI, p. 1299-1315. Dostupné na: https://doi.org/10.1007/s10653-021-01059-x, Registrované v: WOS

2. [1.1] QUEIROZ, H.M. - FERREIRA, A.D. - RUIZ, F. - BOVI, R.C. - DENG, Y.J. - DE SOUZA, V.S. - OTERO, X.L. - BERNARDINO, A.F. - COOPER, M. - FERREIRA, T.O. Early pedogenesis of anthropogenic soils produced by the world';s largest mining disaster, the "Funda tilde o" dam collapse, in southeast Brazil. In CATENA. ISSN 0341-8162, DEC 2022, vol. 219. Dostupné na: https://doi.org/10.1016/j.catena.2022.106625, Registrované v: WOS

ADCA333 ŠIMONOVIČOVÁ, A. - PEŤKOVÁ, K. - JURKOVIČ, L. - FERIANC, Peter - VOJTKOVÁ, Hana - REMENÁR, Matej - KRAKOVÁ, Lucia - PANGALLO, Domenico - HILLER, Edgar - ČERŇANSKÝ, S. Autochthonous microbiota in arsenic-bearing technosols from Zemianske Kostoľany (Slovakia) and its potential for bioleaching and biovolatilization of arsenic. In Water, Air and Soil Pollution, 2016, vol. 227, no. 336, p. 1-17. (2015: 1.551 - IF, Q2 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0049-6979. Dostupné na: https://doi.org/10.1007/s11270-016-3038-1

Citácie:

1. [1.1] MELéNDEZ-SáNCHEZ, E.R. - MARTíNEZ-PRADO, M.A. - NúñEZ-RAMíREZ, D.M. - ROJAS-CONTRERAS, J.A. - LóPEZ-MIRANDA, J. - MEDINA-TORRES, L. - PARRA-SALDIVAR, R. Phylogenetic analysis of strains isolated from mine tailings and evaluation of their resistance to As and Zn. In REVISTA MEXICANA DE INGENIERIA QUIMICA. ISSN 1665-2738, JAN-APR 2022, vol. 21, no. 1, p. 1-21. Dostupné na: https://doi.org/10.24275/rmiq/Bio2700, Registrované v: WOS

ADCA334 ŠIMONOVIČOVÁ, Alexandra - KUPKA, Daniel - NOSALJ, Sanja - KRAKOVÁ, Lucia - DRAHOVSKÁ, H. - BÁRTOVÁ, Zuzana - VOJTKOVÁ, Hana - BOTUROVÁ, Kateřina - PANGALLO, Domenico**. Differences in metabolites production using the Biolog FF Microplate™ system with an emphasis on some organic acids of Aspergillus niger wild type strains. In Biologia, 2020, vol. 75, no. 10, p. 1537-1546. (2019: 0.811 - IF, Q4 - JCR, 0.265 - SJR, Q3 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-020-00521-y (VEGA 2/0142/19 : Štúdium biooxidačných a bioredukčných procesov síry a jej zlúčenín v životnom prostredí a v priemysle)

Citácie:

1. [1.1] JIANG, C.X. - WANG, H. - LIU, M.H. - WANG, L. - YANG, R.W. - WANG, P. - LU, Z.M. - ZHOU, Y. - ZHENG, Z.M. - ZHAO, G.H. Identification of chitin synthase activator in Aspergillus niger and its application in citric acid fermentation. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, NOV 2022, vol. 106, no. 21, p. 6993-7011., Registrované v: WOS

2. [1.1] LI, Y.J. - ZHAO, G.Y. - ZHANG, R. - WEI, Y.H. - YAO, Z.M. - SU, S.S. - LI, Z.Q. Using untargeted metabolomics to profile the differences of the fruits of Lycium barbarum in different geographical origins. In ANALYTICAL SCIENCES. ISSN 0910-6340, AUG 2022, vol. 38, no. 8, p. 1083-1093., Registrované v: WOS

3. [1.1] VALENCIA-HERNANDEZ, L.J. - WONG-PAZ, J.E. - ASCACIO-VALDES, J.A. - CONTRERAS-ESQUIVEL, J.C. - CHAVEZ-GONZALEZ, M.L. - MARTINEZ-PEREZ, A. - CASTILLO-OLVERA, G. - AGUILAR, C.N. Kinetic Study of Fungal Growth of Several Tanninolytic Strains Using Coffee Pulp Procyanidins. In FERMENTATION-BASEL. JAN 2022, vol. 8, no. 1., Registrované v: WOS

ADCA335 ŠKOVIEROVÁ, Henrieta - ROWLEY, G. - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - LEWIS, C. - ROBERTS, M. - KORMANEC, Ján. Identification of the sigmaE regulon of Salmonella enterica serovar Typhimurium. In Microbiology, 2006, vol. 152, p. 1347-1359. (2005: 3.173 - IF, Q1 - JCR, 1.760 - SJR, Q1 - SJR). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.28744-0

Citácie:

1. [1.1] GAVIRIA-CANTIN, Tania - FELIPE VARGAS, Andres - EL MOUALI, Youssef - JONAY JIMENEZ, Carlos - CIMDINS-AHNE, Annika - MADRID, Cristina - ROMLING, Ute - BALSALOBRE, Carlos. Gre Factors Are Required for Biofilm Formation in Salmonella enterica Serovar Typhimurium by Targeting Transcription of the csgD Gene. In MICROORGANISMS, 2022, vol. 10, no. 10, pp. Dostupné na: https://doi.org/10.3390/microorganisms10101921, Registrované v: WOS

2. [1.1] PONATH, F. - ZHU, Y. - COSI, V. - VOGEL, J. Expanding the genetic toolkit helps dissect a global stress response in the early-branching species Fusobacterium nucleatum. In

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, SEP 26 2022, vol. 119, no. 40. Dostupné na: https://doi.org/10.1073/pnas.2201460119, Registrované v: WOS
3. [1.1] PRZEPIORA, Tomasz - FIGAJ, Donata - BOGUCKA, Aleksandra - FIKOWICZ-KROSKO, Jakub - CZAJKOWSKI, Robert - HUGOUVIEUX-COTTE-PATTAT, Nicole - SKORKO-GLONEK, Joanna. The Periplasmic Oxidoreductase DsbA Is Required for Virulence of the Phytopathogen Dickeya solani. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 2, pp. Dostupné na: https://doi.org/10.3390/ijms23020697, Registrované v: WOS
4. [1.1] VILAS BOAS CORDEIRO, Tamires Fernanda - PARDINI GONTIJO, Marco Tulio - JORGE, Genesy Perez - BROCCHI, Marcelo. EbfC/YbaB: A Widely Distributed Nucleoid-Associated Protein in Prokaryotes. In MICROORGANISMS, 2022, vol. 10, no. 10, pp. Dostupné na: https://doi.org/10.3390/microorganisms10101945, Registrované v: WOS

ADCA336 ŠKOVIEROVÁ, Henrieta - REŽUCHOVÁ, Bronislava - HOMEROVÁ, Dagmar - ROBERTS, M. - KORMANEC, Ján. Characterization of the sigma(E)-dependent rpoEp3 promoter of Salmonella enterica serovar Typhimurium. In FEMS Microbiology Letters, 2006, vol. 261, p. 53-59. (2005: 2.057 - IF, Q3 - JCR, 1.000 - SJR, Q2 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/j.1574-6968.2006.00325.x

Citácie:

1. [1.1] ANAND, Deepak - JAKKALA, Kishor - NAIR, Rashmi Ravindran - SHARAN, Deepti - PRADHAN, Atul - MUKKAYYAN, Nagaraja - AJITKUMAR, Parthasarathi. Complete identity and expression of StfZ, the cis-antisense RNA to the mRNA of the cell division gene ftsZ, in Escherichia coli. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.920117, Registrované v: WOS

ADCA337 ŠKRABANA, Rostislav - ŠEVČÍK, Jozef - NOVÁK, Michal. Intrinsically Disordered Proteins in the Neurodegenerative Processes : Formation of Tau Protein Paired Helical Filaments and Their Analysis. In Cellular and Molecular Neurobiology. - New York : Springer, 2006, vol. 26, p.1085-1097. (2005: 2.022 - IF, Q3 - JCR, 1.091 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents). ISSN 0272-4340. Dostupné na: https://doi.org/10.1007/s10571-006-9083-3

Citácie:

1. [1.1] DE LUIGI, A. - COLOMBO, L. - RUSSO, L. - RICCI, C. - BASTONE, A. - CIMINI, S. - TAGLIAVINI, F. - ROSSI, G. - CANTù, L. - DEL FAVERO, E. - SALMONA, M. Biochemical and biophysical features of disease-associated tau mutants V363A and V363I. In BIOCHIMICA ET BIOPHYSICA ACTA-PROTEINS AND PROTEOMICS. ISSN 1570-9639, MAR 1 2022, vol. 1870, no. 3. Dostupné na: https://doi.org/10.1016/j.bbapap.2022.140755, Registrované v: WOS
2. [1.1] GONG, Z.Y. - GAO, L.A. - LU, Y. - WANG, Z.Y. CSF p-tau as a potential cognition impairment biomarker in ALS. In FRONTIERS IN NEUROLOGY. ISSN 1664-2295, NOV 1 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fneur.2022.991143, Registrované v: WOS
*3. [1.1] HONISCH, C. - TORNI, F. - HUSSAIN, R. - RUZZA, P. - SILIGARDI, G. Effect of Trehalose and Ceftriaxone on the Stability of Aggregating-Prone Tau Peptide Containing PHF6*Sequence: An SRCD Study. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MAR 2022, vol. 23, no. 6. Dostupné na: https://doi.org/10.3390/ijms23062932, Registrované v: WOS*
4. [1.1] ISLAM, M. - SHEN, F.Y. - REGMI, D. - DU, D.G. Therapeutic strategies for tauopathies and drug repurposing as a potential approach. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-2952, APR 2022, vol. 198. Dostupné na: https://doi.org/10.1016/j.bcp.2022.114979, Registrované v: WOS
5. [1.1] KUMAR, A. - WIEDEMANN, C. - BELLSTEDT, P. - RAMACHANDRAN, R. - OHLENSCHLäGER, O. NMR of intrinsically disordered proteins: A note on the application of <SUPG</SUP>N-<SUPE</SUP>C^a het-TOCSY mixing for <SUPE</SUP>C^a magnetisation transfers. In JOURNAL OF MAGNETIC RESONANCE. ISSN 1090-7807, APR 2022, vol. 337. Dostupné na: https://doi.org/10.1016/j.jmr.2022.107166, Registrované v: WOS

ADCA338 ŠTAFURA, Andrej - NAGY, Štefan - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KRAKOVÁ, Lucia - ČULÍK, M. - BERONSKÁ, Naďa - NAGY, Štefan - PANGALLO, Domenico. The influence of microfilamentous fungi on wooden organ pipes: One year investigation. In International Biodeterioration & Biodegradation, 2017, vol. 121, p. 139–147. (2016: 2.962 - IF, Q2 - JCR, 1.032 - SJR, Q1 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2017.04.006

Citácie:

1. [1.1] BRANYSOVA, T. - DEMNEROVA, K. - DUROVIC, M. - STIBOROVA, H. Microbial biodeterioration of cultural heritage and identification of the active agents over the last two decades. In JOURNAL OF CULTURAL HERITAGE. ISSN 1296-2074, MAY-JUN 2022, vol. 55, p.

245-260., Registrované v: WOS

ADCA339 TAMINDŽIJA, D. - CHROMÍKOVÁ, Zuzana - SPAIC, A. - BARÁK, Imrich - BERNIER-LATMANI, R. - RADNOVIĆ, Dragan. Chromate tolerance and removal of bacterial strains isolated from uncontaminated and chromium-polluted environments. In World Journal of Microbiology & Biotechnology, 2019, vol. 35, no. 4, p. 35-56. (2018: 2.652 - IF, Q2 - JCR, 0.743 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0959-3993. Dostupné na: https://doi.org/10.1007/s11274-019-2638-5

Citácie:

1. [1.2] OUERTANI, Rania - MAHJOUBI, Mouna - CHOUCHANE, Habib - CHERIF, Ameur - NEIFAR, Mohamed. Microbial and Enzymatic Bioconversion of Tannery Wastes: Progress Toward a Circular Economy in the Leather Industry. In Biotechnology for Sustainable Environment, 2021-01-01, pp. 387-415. Dostupné na: https://doi.org/10.1007/978-981-16-1955-7_17, Registrované v: SCOPUS

ADCA340 TANG, J. - KRAJČÍKOVÁ, Daniela - ZHU, R. - EBNER, Andreas - CUTTING, S. - GRUBER, H.J. - BARÁK, Imrich - HINTERDORFER, Peter. Atomic force microscopy imaging and single molecule recognition force spectroscopy of coat proteins on the surface of Bacillus subtilis spore. In Journal of Molecular Recognition : JMR, 2007, vol. 20, no. 6, pp. 483-489. (2006: 3.794 - IF, Q1 - JCR, 1.558 - SJR, Q2 - SJR). ISSN 0952-3499 (Print). Dostupné na: https://doi.org/10.1002/jmr.828

Citácie:

1. [1.1] LI, Qing - APOSTOLIDOU, Dimitra - MARSZALEK, Piotr E. Reconstruction of mechanical unfolding and refolding pathways of proteins with atomic force spectroscopy and computer simulations. In METHODS, 2022, vol. 197, no., pp. 39-53. ISSN 1046-2023. Dostupné na: https://doi.org/10.1016/j.ymeth.2021.05.012, Registrované v: WOS

2. [1.2] SARKAR, Anwesha. Biosensing, Characterization of Biosensors, and Improved Drug Delivery Approaches Using Atomic Force Microscopy: A Review. In Frontiers in Nanotechnology, 2022-01-21, 3, pp. Dostupné na: https://doi.org/10.3389/fnano.2021.798928, Registrované v: SCOPUS

ADCA341 THORSON, M.K. - MAJTÁN, Tomáš - KRAUS, J.P. - BARRIOS, A.M. Identification of cystathionine b-synthase inhibitors using a hydrogen sulfide selective probe. In Angewandte Chemie, 2013, vol. 52, p. 4641-4644. (2012: 13.734 - IF, Q1 - JCR, 6.407 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1433-7851. Dostupné na: https://doi.org/10.1002/anie.201300841

Citácie:

1. [1.1] ALI, R. - HAMEED, R. - CHAUHAN, D. - SEN, S. - WAHAJUDDIN, M. - NAZIR, A. - VERMA, S. Multiple Actions of H2S-Releasing Peptides in Human β-Amyloid Expressing C. elegans. In ACS CHEMICAL NEUROSCIENCE. ISSN 1948-7193, DEC 7 2022, vol. 13, no. 23, p. 3378-3388. Dostupné na: https://doi.org/10.1021/acschemneuro.2c00402, Registrované v: WOS

2. [1.1] ASCENCAO, K. - SZABO, C. Emerging roles of cystathionine β-synthase in various forms of cancer. In REDOX BIOLOGY. ISSN 2213-2317, JUL 2022, vol. 53. Dostupné na: https://doi.org/10.1016/j.redox.2022.102331, Registrované v: WOS

3. [1.1] CONAN, P. - LéON, A. - GOURDEL, M. - ROLLET, C. - CHAïR, L. - CAROFF, N. - LE GOUX, N. - LE JOSSIC-CORCOS, C. - SINANE, M. - GENTILE, L. - MAILLEBOUIS, L. - LOAëC, N. - MARTIN, J. - VILAIRE, M. - CORCOS, L. - MIGNEN, O. - CROYAL, M. - VOISSET, C. - BIHEL, F. - FRIOCOURT, G. Identification of 8-Hydroxyquinoline Derivatives That Decrease Cystathionine Beta Synthase (CBS) Activity. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUN 2022, vol. 23, no. 12. Dostupné na: https://doi.org/10.3390/ijms23126769, Registrované v: WOS

4. [1.1] JIA, Y. - WANG, Y.Y. - ZHANG, Y.L. - WANG, J.Y. - PEI, Y.X. - WANG, Z.Q. - LI, P. - HAN, K.L. Profiling Cystathionine β/γ-Lyase in Complex Biosamples Using Novel Activatable Fluorogens. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, JAN 18 2022, vol. 94, no. 2, p. 1203-1210. Dostupné na: https://doi.org/10.1021/acs.analchem.1c04393, Registrované v: WOS

5. [1.1] LI, H.Z. - WU, R. - XI, Y.X. - LI, H.X. - CHANG, G.Q. - SUN, F.Q. - WEI, C. - JIAO, L.J. - WEN, X. - ZHANG, G.S. - ZAID, A. - HAO, J.H. Dopamine 1 receptors inhibit apoptosis via activating CSE/H2S pathway in high glucose-induced vascular endothelial cells. In CELL BIOLOGY INTERNATIONAL. ISSN 1065-6995, JUL 2022, vol. 46, no. 7, p. 1098-1108. Dostupné na: https://doi.org/10.1002/cbin.11794, Registrované v: WOS

6. [1.1] LI, L. - ZHANG, Z.Q. A fluorogenic H2S donor activated by reactive oxygen species for real-time monitoring in cells and in vivo. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, JAN 5 2022, vol. 264. Dostupné na: https://doi.org/10.1016/j.saa.2021.120243, Registrované v: WOS

7. [1.1] LUO, Y. - ZUO, Y.M. - SHI, G.Y. - XIANG, H.Y. - GU, H. Progress on the reaction-based methods for detection of endogenous hydrogen sulfide. In ANALYTICAL AND BIOANALYTICAL

CHEMISTRY. ISSN 1618-2642, APR 2022, vol. 414, no. 9, SI, p. 2809-2839. Dostupné na: https://doi.org/10.1007/s00216-021-03777-8, Registrované v: WOS
8. [1.1] SPANGLER, L.C. - YAO, Y.Y. - CHENG, G.M. - YAO, N. - CHARI, S.L. - SCHOLES, G.D. - HECHT, M.H. A de novo protein catalyzes the synthesis of semiconductor quantum dots. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, DEC 20 2022, vol. 119, no. 51. Dostupné na: https://doi.org/10.1073/pnas.2204050119, Registrované v: WOS
9. [1.1] SUN, Y.H. - TANG, X.J. - ZHANG, K.K. - LIU, K.L. - LI, Z. - ZHAO, L.L. Hydrogen sulfide detection and zebrafish imaging by a designed sensitive and selective fluorescent probe based on resorufin. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, JAN 5 2022, vol. 264. Dostupné na: https://doi.org/10.1016/j.saa.2021.120265, Registrované v: WOS
10. [1.1] WANG, Y.Y. - NI, X. - CHADHA, R. - MCCARTNEY, C. - LAM, Y. - BRUMMETT, B. - RAMUSH, G. - XIAN, M. Methods for Suppressing Hydrogen Sulfide in Biological Systems. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, FEB 1 2022, vol. 36, no. 4-6, p. 294-308. Dostupné na: https://doi.org/10.1089/ars.2021.0088, Registrované v: WOS
11. [1.1] ZHOU, Y.Z. - MAZUR, F. - LIANG, K. - CHANDRAWATI, R. Sensitivity and Selectivity Analysis of Fluorescent Probes for Hydrogen Sulfide Detection. In CHEMISTRY-AN ASIAN JOURNAL. ISSN 1861-4728, MAR 1 2022, vol. 17, no. 5. Dostupné na: https://doi.org/10.1002/asia.202101399, Registrované v: WOS
12. [1.2] XI, Yuxin - WEN, Xin - ZHANG, Yuanzhou - JIAO, Lijie - BAI, Shuzhi - SHI, Sa - CHANG, Guiquan - WU, Ren - SUN, Fengqi - HAO, Jinghui - LI, Hongzhu. DR1 Activation Inhibits the Proliferation of Vascular Smooth Muscle Cells through Increasing Endogenous H2S in Diabetes. In Aging and Disease, 2022-05-18, 13, 3, pp. 910-926. Dostupné na: https://doi.org/10.14336/AD.2021.1104, Registrované v: SCOPUS
13. [1.2] YI, Long - XI, Zhen. Fluorescent probes for Hinf2/infS detection: Electrophile-based approaches. In Hydrogen Sulfide: Chemical Biology Basics, Detection Methods, Therapeutic Applications, and Case Studies, 2022-09-02, pp. 183-202. Dostupné na: https://doi.org/10.1002/9781119799900.ch8, Registrované v: SCOPUS

ADCA342 TIŠÁKOVÁ, Lenka - PIPÍŠKA, M. - GODÁNY, Andrej - HORNÍK, M. - VIDOVÁ, Barbora - AUGUSTIN, J. Bioaccumulation of 137Cs and 60Co by bacteria isolated from spent nuclear fuel pools. In Journal of Radioanalytical and Nuclear Chemistry, 2013, vol. 295, p. 737–748. (2012: 1.467 - IF, Q1 - JCR, 0.542 - SJR, Q2 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0236-5731. Dostupné na: https://doi.org/10.1007/s10967-012-1932-6

Citácie:
1. [1.1] BARTON, F. - SHAW, S. - MORRIS, K. - GRAHAM, J. - LLOYD, J.R. Impact and control of fouling in radioactive environments. In PROGRESS IN NUCLEAR ENERGY. ISSN 0149-1970, JUN 2022, vol. 148. Dostupné na: https://doi.org/10.1016/j.pnucene.2022.104215, Registrované v: WOS
2. [1.1] BATTULGA, B. - ATARASHI-ANDOH, M. - NAKANISHI, T. - KOARASHI, J. A new approach to extracting biofilm from environmental plastics using ultrasound-assisted syringe treatment for isotopic analyses. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, NOV 25 2022, vol. 849. Dostupné na: https://doi.org/10.1016/j.scitotenv.2022.157758, Registrované v: WOS
3. [1.1] KARLEY, D. - SHUKLA, S.K. - RAO, T.S. Microbiological assessment of spent nuclear fuel pools: An in-perspective review. In JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING. ISSN 2213-2929, AUG 2022, vol. 10, no. 4. Dostupné na: https://doi.org/10.1016/j.jece.2022.108050, Registrované v: WOS
4. [1.1] PURKIS, J.M. - BARDOS, R.P. - GRAHAM, J. - CUNDY, A.B. Developing field-scale, gentle remediation options for nuclear sites contaminated with <SUPą</SUP>Cs and <SUP'</SUP>Sr: The role of Nature-Based Solutions. In JOURNAL OF ENVIRONMENTAL MANAGEMENT. ISSN 0301-4797, APR 15 2022, vol. 308. Dostupné na: https://doi.org/10.1016/j.jenvman.2022.114620, Registrované v: WOS
5. [1.1] SINGH, B.S.M. - DHAL, N.K. - KUMAR, M. - MOHAPATRA, D. - SESHADRI, H. - ROUT, N.C. - NAYAK, M. Phytoremediation of <SUPą</SUP>Cs: factors and consequences in the environment. In RADIATION AND ENVIRONMENTAL BIOPHYSICS. ISSN 0301-634X, AUG 2022, vol. 61, no. 3, p. 341-359. Dostupné na: https://doi.org/10.1007/s00411-022-00985-3, Registrované v: WOS
6. [1.2] SAJIDA, Sayed - HEMLATA, Bagla. Sorption studies of radionuclides from simulated low level waste using green biosorbent. In Research Journal of Chemistry and Environment, 2021-01-01, 25, 1, pp. 68-73. ISSN 09720626., Registrované v: SCOPUS
7. [1.2] SIVAPERUMAL, Pitchiah - KAMALA, Kannan - SUBRAMANIAN, Kumaran - ARUNI, Wilson - SHANMUGAM, Rajeshkumar - RAJARAM, Rajendran. Baseline assessment of marine

actinobacterial diversity around the nuclear power plant sites, India and its application to uranium remediation. In Environmental Research, 2022-09-01, 212, pp. ISSN 00139351. Dostupné na: https://doi.org/10.1016/j.envres.2022.113135, Registrované v: SCOPUS

ADCA343 TIŠÁKOVÁ, Lenka - VIDOVÁ, Barbora - FARKAŠOVSKÁ, Jarmila - GODÁNY, Andrej. Bacteriophage endolysin Lyt µ1/6: characterization of the C-terminal binding domain. In FEMS Microbiology Letters, 2014, vol. 350, p. 199–208. (2013: 2.046 - IF, Q3 - JCR, 1.043 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1111/1574-6968.12338

Citácie:

1. [1.1] BELL, E. - LAMMINMäKI, T. - ALNEBERG, J. - QIAN, C. - XIONG, W.L. - HETTICH, R.L. - FRUTSCHI, M. - BERNIER-LATMANI, R. Active anaerobic methane oxidation and sulfur disproportionation in the deep terrestrial subsurface. In ISME JOURNAL. ISSN 1751-7362, JUN 2022, vol. 16, no. 6, p. 1583-1593. Dostupné na: https://doi.org/10.1038/s41396-022-01207-w, Registrované v: WOS

ADCA344 TRENZ, Thomaz Stumpf - DELAIX, C.L. - TURCHETTO-ZOLET, A.C. - ZÁMOCKÝ, Marcel - LAZZAROTTO, F.** - MARGIS-PINHEIRO, M.**. Going forward and back: the complex evolutionary history of the GPx. In Biology-Basel, 2021, vol. 10, no. 1165. (2020: 5.079 - IF, Q1 - JCR, 1.731 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology10111165

Citácie:

1. [1.1] BELA, K. - RIYAZUDDIN, R. - CSISZAR, J. Plant Glutathione Peroxidases: Non-Heme Peroxidases with Large Functional Flexibility as a Core Component of ROS-Processing Mechanisms and Signalling. In ANTIOXIDANTS. AUG 2022, vol. 11, no. 8., Registrované v: WOS

2. [1.1] FLOHE, L. - TOPPO, S. - ORIAN, L. The glutathione peroxidase family: Discoveries and mechanism. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, JUL 2022, vol. 187, p. 113-122., Registrované v: WOS

3. [1.1] WEAVER, K. - SKOUTA, R. The Selenoprotein Glutathione Peroxidase 4: From Molecular Mechanisms to Novel Therapeutic Opportunities. In BIOMEDICINES. APR 2022, vol. 10, no. 4., Registrované v: WOS

4. [1.1] ZHANG, G.S. - FANG, Y. - LI, X. - ZHANG, Z. Ferroptosis: A novel therapeutic strategy and mechanism of action in glioma. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, SEP 15 2022, vol. 12., Registrované v: WOS

ADCA345 TSAVEA, Eleni - VARDAKA, Fotini-Paraskevi - SAVVIDAKI, Elisavet - KELLIL, Abdessamie - KANELIS, Dimitrios - BUČEKOVÁ, Marcela - GRIGORAKIS, Spyros - GODOČÍKOVÁ, Jana - GOTSIOU, Panagiota - DIMOU, Maria - LOUPASSAKI, Sophia - REMOUNDOU, Ilektra - TSADILA, Christina - DIMITRIOU, Tilemachos G. - MAJTÁN, Juraj - TANANAKI, Chrysoula - ALISSANDRAKIS, Eleftherios** - MOSSIALOS, Dimitris. Physicochemical Characterization and Biological Properties of Pine Honey Produced across Greece. In Foods, 2022, vol. 11, no. 7, art. no. 943. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2304-8158. Dostupné na: https://doi.org/10.3390/foods11070943 (VEGA č. 2/0022/22)

Citácie:

1. [1.1] ESCUREDO, O. - SEIJO, M.C. Authenticity of Honey: Characterization, Bioactivities and Sensorial Properties. In FOODS. MAY 2022, vol. 11, no. 9., Registrované v: WOS

2. [1.1] FARKAS, A. - BALAZS, V.L. - KOSZEGI, T. - CSEPREGI, R. - KEREKES, E. - HORVATH, G. - SZABO, P. - GAAL, K. - KOCSIS, M. Antibacterial and Biofilm Degradation Effects of Hungarian Honeys Linked With Botanical Origin, Antioxidant Capacity and Mineral Content. In FRONTIERS IN NUTRITION. ISSN 2296-861X, JUL 13 2022, vol. 9., Registrované v: WOS

3. [1.1] JACINTO-CASTILLO, D.F. - CANTO, A. - MEDINA-MEDINA, L.A. - O';CONNOR-SANCHEZ, A. Living in honey: bacterial and fungal communities in honey of sympatric populations of Apis mellifera and the stingless bee Melipona beecheii, in Yucatan, Mexico. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, DEC 2022, vol. 204, no. 12., Registrované v: WOS

4. [1.1] KOULIS, G.A. - TSAGKARIS, A.S. - KATSIANOU, P.A. - GIALOURIS, P.L.P. - MARTAKOS, I. - STERGIOU, F. - FIORE, A. - PANAGOPOULOU, E.I. - KARABOURNIOTI, S. - BAESSMANN, C. - VAN DER BORG, N. - DASENAKI, M.E. - PROESTOS, C. - THOMAIDIS, N.S. Thorough Investigation of the Phenolic Profile of Reputable Greek Honey Varieties: Varietal Discrimination and Floral Markers Identification Using Liquid Chromatography-High-Resolution Mass Spectrometry. In MOLECULES. JUL 2022, vol. 27, no. 14., Registrované v: WOS

5. [1.1] POSTALI, E. - PEROUKIDOU, P. - GIAOURIS, E. - PAPACHRISTOFOROU, A. Investigating Possible Synergism in the Antioxidant and Antibacterial Actions of Honey and Propolis from the Greek Island of Samothrace through Their Combined Application. In FOODS.

JUL 2022, vol. 11, no. 14., Registrované v: WOS
6. [1.1] WULTANSKA, D. - PATERCZYK, B. - NOWAKOWSKA, J. - PITUCH, H. The Effect of Selected Bee Products on Adhesion and Biofilm of Clostridioides difficile Strains Belonging to Different Ribotypes. In MOLECULES. NOV 2022, vol. 27, no. 21., Registrované v: WOS

ADCA346 TSOLIS, K.C. - HAMED, M.B. - SIMOENS, K. - KOEPFF, J. - BUSCHE, T. - RUCKERT, C. - OLDIGES, M. - KALINOWSKI, J. - ANNÉ, J. - KORMANEC, Ján - BERNAERTS, K. - KARAMANOU, S. - ECONOMOU, A. Secretome dynamics in a gram-positive bacterial model. In Molecular and cellular proteomics, 2019, vol. 18, p. 423-436. (2018: 4.828 - IF, Q1 - JCR, 2.807 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 1535-9476. Dostupné na: https://doi.org/10.1074/mcp.RA118.000899

Citácie:
1. [1.1] WANG, J.T. - ZHU, H.H. - SHANG, H.Y. - GUO, B.S. - ZHANG, M.X. - WANG, F.Y. - ZHANG, L.P. - XU, J. - WANG, H. Development of a thiostrepton-free system for stable production of PLD in Streptomyces lividans SBT5. In MICROBIAL CELL FACTORIES. DEC 19 2022, vol. 21, no. 1., Registrované v: WOS

ADCA347 UGORČÁKOVÁ, Jana - MEDZOVÁ, Lívia - ŠOLTÉSZOVÁ, Barbora - BUKOVSKÁ, Gabriela. Characterization of a phiBP endolysin encoded by the Paenibacillus polymyxa CCM 7400 phage. In FEMS Microbiology Letters, 2015, vol. 362, fnv098. (2014: 2.121 - IF, Q3 - JCR, 1.136 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0378-1097. Dostupné na: https://doi.org/10.1093/femsle/fnv098

Citácie:
1. [1.1] VALENTE, L. - LE, N.D. - PITTON, M.M. - CHIFFI, G.R. - GRANDGIRARD, D. - JAKOB, S. - CAMERON, D.L. - RESCH, G. - QUE, Y.A. - LEIB, S. Efficacy assessment of a novel endolysin PlyAZ3a^T for the treatment of ceftriaxone-resistant pneumococcal meningitis in an infant rat model. In PLOS ONE. ISSN 1932-6203, 2022, vol. 17, no. 4. Dostupné na: https://doi.org/10.1371/journal.pone.0266928, Registrované v: WOS

ADCA348 URBAN, J.** - SUCHANKOVA, M. - GANOVSKÁ, M. - LEKSA, Vladimír - SÁNDOR, F. - TEDLOVÁ, E. - KÖNIG, Brian - BUCOVA, E. The role of CX3CL1 and ADAM17 in pathogenesis of diffuse parenchymal lung diseases. In Diagnostics, 2021, vol. 11, no. 6, art. no. 1074. (2020: 3.706 - IF, Q2 - JCR, 0.622 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2075-4418. Dostupné na: https://doi.org/10.3390/diagnostics11061074 (APVV-16-0452 : Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (PPIS))

Citácie:
1. [1.1] HU, Huifang - YANG, Hang - LIU, Yi - YAN, Bing. Pathogenesis of Anti-melanoma Differentiation-Associated Gene 5 Antibody-Positive Dermatomyositis: A Concise Review With an Emphasis on Type I Interferon System. In FRONTIERS IN MEDICINE, 2022, vol. 8, no., pp. Dostupné na: https://doi.org/10.3389/fmed.2021.833114, Registrované v: WOS

ADCA349 URBANČÍKOVÁ, I. - HUDÁČKOVÁ, D. - MAJTÁN, Juraj - RENNEROVÁ, Z.** - BÁNOVČIN, P - JESEŇÁK, M.**. Efficacy of Pleuran (β-Glucan From Pleurotus ostreatus) in the Management of Herpes Simplex Virus Type 1 Infection. In Evidence-based Complementary and Alternative Medicine, 2020, vol. 2020, no. 8562309. (2019: 1.813 - IF, Q3 - JCR, 0.510 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1741-427X. Dostupné na: https://doi.org/10.1155/2020/8562309

Citácie:
1. [1.1] DOS REIS, E.E. - SCHENKEL, P.C. - CAMASSOLA, M. Effects of bioactive compounds from Pleurotus mushrooms on COVID-19 risk factors associated with the cardiovascular system. In JOURNAL OF INTEGRATIVE MEDICINE-JIM. ISSN 2095-4964, SEP 2022, vol. 20, no. 5, p. 385-395., Registrované v: WOS

ADCA350 URBÁNIKOVÁ, Ľubica - VRŠANSKÁ, Mária - MORKEBERG KROGH, K.B.R. - HOFF, T. - BIELY, Peter. Structural basis for substrate recognition by Erwinia chrysanthemi GH30 glucuronoxylanase. In FEBS Journal, 2011, vol. 278, p. 2105-2116. (2010: 3.129 - IF, Q2 - JCR, 1.669 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 1742-464X. Dostupné na: https://doi.org/10.1111/j.1742-4658.2011.08127.x

Citácie:
1. [1.1] LI, X.X. - KOUZOUNIS, D. - KABEL, M.A. - DE VRIES, R.P. - DILOKPIMOL, A. Glycoside Hydrolase family 30 harbors fungal subfamilies with distinct polysaccharide specificities. In NEW BIOTECHNOLOGY. ISSN 1871-6784, MAR 25 2022, vol. 67, p. 32-41. Dostupné na: https://doi.org/10.1016/j.nbt.2021.12.004, Registrované v: WOS
2. [1.1] ST JOHN, F.J. - CROOKS, C. - KIM, Y. - TAN, K.M. - JOACHIMIAK, A. The first crystal structure of a xylobiose-bound xylobiohydrolase with high functional specificity from the bacterial glycoside hydrolase family 30, subfamily 10. In FEBS LETTERS. ISSN 0014-5793, SEP 2022, vol. 596, no. 18, p. 2449-2464. Dostupné na: https://doi.org/10.1002/1873-3468.14454, Registrované

v: WOS
3. [1.2] BELORKAR, S. A. Functional Oligosaccharides and Microbial Sources. In Bioprospecting of Microorganism-Based Industrial Molecules, 2021-01-01, pp. 337-356. Dostupné na: https://doi.org/10.1002/9781119717317.ch17, Registrované v: SCOPUS

ADCA351 URBÁNIKOVÁ, Ľubica**. CE16 acetylesterases: in silico analysis, catalytic machinery prediction and comparison with related SGNH hydrolases. In 3 Biotech, 2021, vol. 11, no. 84. (2020: 2.406 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-020-02575-w

Citácie:
1. [1.1] HUO, J.X. - SUN, Y.Q. - PAN, M.L. - MA, H.Y. - LIN, T.B. - LV, Z.Q. - LI, Y.G. - ZHONG, S. Non-targeted metabonomics and transcriptomics revealed the mechanism of mulberry branch extracts promoting the growth of Sanghuangporus vaninii mycelium. In FRONTIERS IN MICROBIOLOGY. OCT 6 2022, vol. 13., Registrované v: WOS
2. [1.1] KNEPP, Z.J. - GHANER, A. - ROOT, K.T. Purification and refolding protocol for cold-active recombinant esterase AaSGNH1 from Aphanizomenon flos-aquae expressed as insoluble inclusion bodies. In PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY. ISSN 1082-6068, APR 1 2022, vol. 52, no. 4, p. 394-403., Registrované v: WOS
3. [1.1] VENEGAS, F.A. - KOUTANIEMI, S. - LANGEVELD, S.M.J. - BELLEMARE, A. - CHONG, S.L. - DILOKPIMOL, A. - LOWDEN, M.J. - HILDEN, K.S. - LEYVA-ILLADES, J.F. - MAKELA, M.R. - PHAM, T.T.M. - PENG, M. - HANCOCK, M.A. - ZHENG, Y. - TSANG, A. - TENKANEN, M. - POWLOWSKI, J. - DE VRIES, R.P. Carbohydrate esterase family 16 contains fungal hemicellulose acetyl esterases (HAEs) with varying specificity. In NEW BIOTECHNOLOGY. ISSN 1871-6784, SEP 25 2022, vol. 70, p. 28-38., Registrované v: WOS

ADCA352 URZI, C. - DE LEO, F. - KRAKOVÁ, Lucia - PANGALLO, Domenico - BRUNO, L. Effects of biocide treatments on the biofilm community in Domitilla';s catacombs in Rome. In Science of the Total Environment, 2016, vol. 572, p. 252–262. (2015: 3.976 - IF, Q1 - JCR, 1.653 - SJR, Q1 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 0048-9697. Dostupné na: https://doi.org/10.1016/j.scitotenv.2016.07.195

Citácie:
1. [1.1] FRANCO-CASTILLO, I. - MISRA, A. - LARATTE, S. - GOMMEAUX, M. - PERARNAU, R. - VAILLANT-GAVEAU, N. - PLEROT, C. - STREB, C. - MITCHELL, S.G. - CHIUNE, S.E. New protective coatings against lampenflora growing in the Pommery Champagne cellar. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, SEP 2022, vol. 173. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105459, Registrované v: WOS
2. [1.1] ISOLA, D. - BARTOLI, F. - MELONI, P. - CANEVA, G. - ZUCCONI, L. Black Fungi and Stone Heritage Conservation: Ecological and Metabolic Assays for Evaluating Colonization Potential and Responses to Traditional Biocides. In APPLIED SCIENCES-BASEL. FEB 2022, vol. 12, no. 4. Dostupné na: https://doi.org/10.3390/app12042038, Registrované v: WOS
3. [1.1] NOWICKA-KRAWCZYK, P. - KOMAR, M. - GUTAROWSKA, B. Towards understanding the link between the deterioration of building materials and the nature of aerophytic green algae. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JAN 1 2022, vol. 802. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.149856, Registrované v: WOS
4. [1.2] CAPPITELLI, Francesca - VILLA, Federica. Novel antibiofilm non-biocidal strategies. In Microorganisms in the Deterioration and Preservation of Cultural Heritage, 2021-05-05, pp. 117-136. Dostupné na: https://doi.org/10.1007/978-3-030-69411-1_5, Registrované v: SCOPUS

ADCA353 VALACHOVÁ, Ivana - BUČEKOVÁ, Marcela - MAJTÁN, Juraj. Quantification of bee-derived peptide defensin-1 in honey by competitive enzyme-linked immunosorbent assay, a new approach in honey quality control (WOS) //. In Czech Journal of Food Sciences, 2016, vol. 34, iss. 3, p. 233-243. (2015: 0.728 - IF, Q3 - JCR, 0.414 - SJR, Q2 - SJR, karentované - CCC). (2016 - Current Contents). ISSN 1212-1800. Dostupné na: https://doi.org/10.17221/422/2015-CJFS (VEGA 2/0007/14 : Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán)

Citácie:
1. [1.1] MIELES, J.Y. - VYAS, C. - ASLAN, E. - HUMPHREYS, G. - DIVER, C. - BARTOLO, P. Honey: An Advanced Antimicrobial and Wound Healing Biomaterial for Tissue Engineering Applications. In PHARMACEUTICS. AUG 2022, vol. 14, no. 8. Dostupné na: https://doi.org/10.3390/pharmaceutics14081663, Registrované v: WOS

ADCA354 VALENČÍKOVÁ, Romana - KRASCSENITSOVÁ, Eva - LABAJOVÁ, Naďa - MAKROCZYOVÁ, Jana - BARÁK, Imrich**. Clostridial DivIVA and MinD interact in the absence of MinJ. In Anaerobe, 2018, vol. 50, p. 22-31. (2017: 2.742 - IF, Q2 - JCR, 1.144 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1075-9964. Dostupné na: https://doi.org/10.1016/j.anaerobe.2018.01.013

Citácie:

1. [1.2] LAMM-SCHMIDT, Vanessa - FUCHS, Manuela - SULZER, Johannes - GEROVAC, Milan - HÖR, Jens - DERSCH, Petra - VOGEL, Jörg - FABER, Franziska. Grad-seq identifies KhpB as a global RNA-binding protein in Clostridioides difficile that regulates toxin production. In MicroLife, 2021-01-01, 2, pp. Dostupné na: https://doi.org/10.1093/femsml/uqab004, Registrované v: SCOPUS

ADCA355 VAN DER KAAIJ, R.M. - JANEČEK, Štefan - VAN DER MAAREL, M.J. - DIJKHUIZEN, L. Phylogenetic and biochemical characterization of a novel cluster of intracellular fungal alpha-amylase enzymes. In Microbiology : international journal, 2007, vol. 153, no. 12, pp. 4003-4015. (2006: 3.139 - IF, Q2 - JCR, 1.794 - SJR, Q1 - SJR, karentované - CCC). (2007 - Current Contents). ISSN 1350-0872. Dostupné na: https://doi.org/10.1099/mic.0.2007/008607-0

Citácie:

1. [1.1] KLEINWORT, Kristina J. H. - WEIGAND, Maria - HOFFMANN, Lydia - DEGROOTE, Roxane L. - DIETRICH, Richard - MAERTLBAUER, Erwin - HAUCK, Stefanie M. - DEEG, Cornelia A. Pudding Proteomics: Cyclomaltodextrin Glucanotransferase and Microbial Proteases Can Liquefy Extended Shelf Life Dairy Products. In METABOLITES, 2022, vol. 12, no. 3, pp. Dostupné na: https://doi.org/10.3390/metabo12030254, Registrované v: WOS

ADCA356 VAN DIJL, J.M. - KUTEJOVÁ, Eva - SUDA, K. - PEREČKO, D. - SCHATZ, G. - SUZUKI, C.K. The ATPase and protease domains of yeast mitochondrial Lon: roles in proteolysis and respiration-dependent growth. In Proceedings of the National Academy of Sciences of the United States of America, 1998, vol. 95, p. 10584-10589. ISSN 0027-8424. Dostupné na: https://doi.org/10.1073/pnas.95.18.10584

Citácie:

1. [1.1] MA, Haozhen - CHEN, Wanting - FAN, Wenguo - HE, Hongwen - HUANG, Fang. Roles of LonP1 in Oral-Maxillofacial Developmental Defects and Tumors: A Novel Insight. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 21, pp. Dostupné na: https://doi.org/10.3390/ijms232113370, Registrované v: WOS

2. [1.1] YANG, Jie - SONG, Albert S. - WISEMAN, R. Luke C. - LANDER, Gabriel. Cryo-EM structure of hexameric yeast Lon protease (PIM1) highlights the importance of conserved structural elements. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2022, vol. 298, no. 3, pp. Dostupné na: https://doi.org/10.1016/j.jbc.2022.101694, Registrované v: WOS

ADCA357 VAVROVÁ, Ľudmila - MUCHOVÁ, Katarína - BARÁK, Imrich. Comparison of different Bacillus subtilis expression systems. In Research in Microbiology, 2010, vol. 161, p. 791-797. (2009: 2.154 - IF, Q3 - JCR, 1.169 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0923-2508. Dostupné na: https://doi.org/10.1016/j.resmic.2010.09.004

Citácie:

1. [1.1] EJAZ, S. - KHAN, H. - SARWAR, N. - AQEEL, S.M. - AL-ADEEB, A. - LIU, S. A Review on Recent Advancement in Expression Strategies Used in Bacillus subtilis. In PROTEIN AND PEPTIDE LETTERS. ISSN 0929-8665, 2022, vol. 29, no. 9, p. 733-743., Registrované v: WOS

2. [1.1] GREESON, E.M. - MADSEN, C.S. - MAKELA, A.V. - CONTAG, C.H. Magnetothermal Control of Temperature- Sensitive Repressors in Superparamagnetic Iron Nanoparticle-Coated Bacillus subtilis. In ACS NANO. ISSN 1936-0851, OCT 25 2022, vol. 16, no. 10, p. 16699-16712., Registrované v: WOS

3. [1.1] LU, J. - ZHAO, Y. - CHENG, Y. - HU, R. - FANG, Y.W. - LYU, M.S. - WANG, S.J. - LU, Z.X. Optimal Secretory Expression of Acetaldehyde Dehydrogenase from Issatchenkia terricola in Bacillus subtilis through a Combined Strategy. In MOLECULES. FEB 2022, vol. 27, no. 3., Registrované v: WOS

4. [1.1] MADSEN, C.S. - MAKELA, A.V. - GREESON, E.M. - HARDY, J.W. - CONTAG, C.H. Engineered endosymbionts that alter mammalian cell surface marker, cytokine and chemokine expression. In COMMUNICATIONS BIOLOGY. AUG 30 2022, vol. 5, no. 1., Registrované v: WOS

5. [1.2] APPELBAUM, Mathis - SCHWEDER, Thomas. Metabolic Engineering of Bacillus New Tools, Strains, and Concepts. In Metabolic Engineering: Concepts and Applications: Volume 13a and 13b, 2021-01-01, 13, pp. 469-518. Dostupné na: https://doi.org/10.1002/9783527823468.ch13, Registrované v: SCOPUS

6. [1.2] LE, Ngan Thi Phuong - PHAN, Trang Thi Phuong - PHAN, Hanh Thi Thu - TRUONG, Tuom Thi Tinh - SCHUMANN, Wolfgang - NGUYEN, Hoang Duc. Influence of N-terminal His-tags on the production of recombinant proteins in the cytoplasm of Bacillus subtilis. In Biotechnology Reports, 2022-09-01, 35, pp. Dostupné na: https://doi.org/10.1016/j.btre.2022.e00754, Registrované v: SCOPUS

7. [1.2] PEI, Wenwen - ZENG, Yan - LIU, Juanjuan - ZHANG, Jiangang - WANG, Min - SUN, Yuanxia. Expression of Recombinant β-Glucosidase in Bacillus subtilis and Its Enzymatic Characterization and Application in Preparation of Icariside II. In Science and Technology of Food Industry, 2022-03-01, 43, 6, pp. 133-140. ISSN 10020306. Dostupné na:

https://doi.org/10.13386/j.issn1002-0306.2021080167, Registrované v: SCOPUS

ADCA358 VÍTKOVÁ, M. - DERCOVÁ, Katarína - MOLNÁROVÁ, J. - TÓTHOVÁ, L. - POLEK, Bystrík - GODOČÍKOVÁ, Jana. The effect of lignite and comamonas testosteroni on pentachlorophenol biodegradation and soil ecotoxicity. In Water, Air and Soil Pollution, 2011, vol. 218, p. 145-155. (2010: 1.765 - IF, Q1 - JCR, 0.772 - SJR, Q1 - SJR). ISSN 0049-6979. Dostupné na: https://doi.org/10.1007/s11270-010-0630-7

Citácie:

1. [1.1] AMMERI, Rim Werheni - SIMEONE, Giuseppe Di Rauso - HIDRI, Yassine - ABASSI, Mohamed Salah - MEHRI, Ines - COSTA, Sara - HASSEN, Abdennaceur - RAO, Maria A. Combined bioaugmentation and biostimulation techniques in bioremediation of pentachlorophenol contaminated forest soil. In CHEMOSPHERE, 2022, vol. 290, no., pp. ISSN 0045-6535. Dostupné na: https://doi.org/10.1016/j.chemosphere.2021.133359, Registrované v: WOS

2. [1.1] DIMOVA, Mariia - IUTYNSKA, Galyna - YAMBORKO, Nadiya - DORDEVIC, Dani - KUSHKEVYCH, Ivan. Possible Processes and Mechanisms of Hexachlorobenzene Decomposition by the Selected Comamonas testosteroni Bacterial Strains. In PROCESSES, 2022, vol. 10, no. 11, pp. Dostupné na: https://doi.org/10.3390/pr10112170, Registrované v: WOS

3. [1.1] DIMOVA, Mariia - TUGAI, Andrii - TUGAI, Tetiana - IUTYNSKA, Galyna - DORDEVIC, Dani - KUSHKEVYCH, Ivan. Molecular Research of Lipid Peroxidation and Antioxidant Enzyme Activity of Comamonas testosteroni Bacterial Cells under the Hexachlorobenzene Impact. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 19, pp. Dostupné na: https://doi.org/10.3390/ijms231911415, Registrované v: WOS

ADCA359 VLASITS, J. - JAKOPITSCH, C. - BERNROITNER, M. - ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Mechanisms of catalase activity of heme peroxidases. In Archives of Biochemistry and Biophysics, 2010, vol. 500, p. 74-81. (2009: 3.046 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2010.04.018

Citácie:

1. [1.1] GAN, J.S. - ASHRAF, S.S. - BILAL, M. - IQBAL, H.M.N. Biodegradation of environmental pollutants using catalase-based biocatalytic systems. In ENVIRONMENTAL RESEARCH. ISSN 0013-9351, NOV 2022, vol. 214, 2. Dostupné na: https://doi.org/10.1016/j.envres.2022.113914, Registrované v: WOS

2. [1.1] HEROLD-MAJUMDAR, O.M. - PITA, S.L. - ESTEVEZ, F.D. - WAWRZYNCZYK, J. - LOUREIRO, P.E.G. - FELBY, C. Removal of hard COD from acidic eucalyptus kraft pulp bleach plant effluent streams using oxidoreductases. In BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY. ISSN 0885-4513, APR 2022, vol. 69, no. 2, p. 687-700. Dostupné na: https://doi.org/10.1002/bab.2144, Registrované v: WOS

3. [1.1] LIU, R.X. - CAI, Z.Y. - ZHANG, Q.S. - YUAN, H. - ZHANG, G.L. - YANG, D. Colorimetric two-dimensional photonic crystal biosensors for label-free detection of hydrogen peroxide. In SENSORS AND ACTUATORS B-CHEMICAL. MAR 1 2022, vol. 354. Dostupné na: https://doi.org/10.1016/j.snb.2021.131236, Registrované v: WOS

4. [1.1] LIU, Y.W. - LIU, G.L. - WANG, Z.W. - GUO, Y.Y. - YIN, Y.G. - ZHANG, X.S. - CAI, Y. - JIANG, G.B. Understanding foliar accumulation of atmospheric Hg in terrestrial vegetation: Progress and challenges. In CRITICAL REVIEWS IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY. ISSN 1064-3389, SEP 28 2022, vol. 52, no. 24, p. 4331-4352. Dostupné na: https://doi.org/10.1080/10643389.2021.1989235, Registrované v: WOS

5. [1.1] MCCAIN, J.S.P. - BERTRAND, E.M. Phytoplankton antioxidant systems and their contributions to cellular elemental stoichiometry. In LIMNOLOGY AND OCEANOGRAPHY LETTERS. APR 2022, vol. 7, no. 2, p. 96-111. Dostupné na: https://doi.org/10.1002/lol2.10233, Registrované v: WOS

6. [1.1] NATH, A. - CHAKRABARTI, P. - SEN, S. - BARUI, A. Reactive Oxygen Species in Modulating Intestinal Stem Cell Dynamics and Function. In STEM CELL REVIEWS AND REPORTS. ISSN 2629-3269, OCT 2022, vol. 18, no. 7, p. 2328-2350. Dostupné na: https://doi.org/10.1007/s12015-022-10377-1, Registrované v: WOS

7. [1.1] NGETICH, D.K. - BETT, R.C. - GACHUIRI, C.K. - KIBEGWA, F.M. Diversity of gut methanogens and functional enzymes associated with methane metabolism in smallholder dairy cattle. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, OCT 2022, vol. 204, no. 10. Dostupné na: https://doi.org/10.1007/s00203-022-03187-z, Registrované v: WOS

8. [1.1] QIN, Y.H. - FAN, Y.H. - CHEN, R.Y. - YIN, H.Y. - ZOU, H. - QU, X.H. - TAN, J. - XU, Y.Q. - ZHU, C.H. Harnessing Oxidative Microenvironment forIn VivoSynthesis ofSubcellular Conductive Polymer Microesicles Enhances Nerve Reconstruction. In NANO LETTERS. ISSN 1530-6984, MAY 11 2022, vol. 22, no. 9, p. 3825-3831. Dostupné na: https://doi.org/10.1021/acs.nanolett.2c01123, Registrované v: WOS

9. [1.1] VAN STAPPEN, C. - DENG, Y.L. - LIU, Y.W. - HEIDARI, H. - WANG, J.X. - ZHOU, Y. -

LEDRAY, A.P. - LU, Y. Designing Artificial Metalloenzymes by Tuning of the Environment beyond the Primary Coordination Sphere. In CHEMICAL REVIEWS. ISSN 0009-2665, JUL 27 2022, vol. 122, no. 14, p. 11974-12045. Dostupné na: https://doi.org/10.1021/acs.chemrev.2c00106, Registrované v: WOS

10. [1.2] KOSHURBA, I. V. - HLADKYKH, F. V. - CHYZH, M. O. - BELOCHKINA, I. V. - RUBLEVA, T. V. HEPATOTROPIC EFFECTS OF TRIPLE ANTIULCER THERAPY AND PLACENTA CRYOEXTRACT: THE ROLE OF SEX FACTORS IN LIPOPEROXIDATION. In Fiziologichnyi Zhurnal, 2022-01-01, 68, 5, pp. 25-32. ISSN 25229028. Dostupné na: https://doi.org/10.15407/fz68.05.025, Registrované v: SCOPUS

ADCA360 WEINSTOCK, G.M. - ROBINSON, G.E. - BÍLIKOVÁ, Katarína - ŠIMÚTH, Jozef. Insights into social insects from the genome of the honeybee Apis mellifera. In Nature, 2006, vol. 443, no. 7114, p. 931. (2005: 29.273 - IF, Q1 - JCR, 10.333 - SJR, Q1 - SJR, karentované - CCC). (2006 - Current Contents, WOS, SCOPUS). ISSN 0028-0836. Dostupné na: https://doi.org/10.1038/nature05260

Citácie:

1. [1.1] BOVO, S. - UTZERI, V.J. - RIBANI, A. - TAURISANO, V. - SCHIAVO, G. - FONTANESI, L. A genotyping by sequencing approach can disclose Apis mellifera population genomic information contained in honey environmental DNA. In SCIENTIFIC REPORTS. ISSN 2045-2322, NOV 15 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-24101-z, Registrované v: WOS

2. [1.1] BOWERS, J.E. - TANG, H.B. - BURKE, J.M. - PATERSON, A.H. GC content of plant genes is linked to past gene duplications. In PLOS ONE. ISSN 1932-6203, JAN 13 2022, vol. 17, no. 1. Dostupné na: https://doi.org/10.1371/journal.pone.0261748, Registrované v: WOS

3. [1.1] CHEN, L.F. - FENG, C. - WANG, R. - NONG, X.J. - DENG, X.X. - CHEN, X.Y. - YU, H. A chromosome-level genome assembly of the pollinating fig wasp Valisia javana. In DNA RESEARCH. ISSN 1340-2838, MAY 27 2022, vol. 29, no. 3. Dostupné na: https://doi.org/10.1093/dnares/dsac014, Registrované v: WOS

4. [1.1] CHENG, A. - HARIKRISHNA, J.A. - REDWOOD, C.S. - LIT, L.C. - NATH, S.K. - CHUA, K.H. Genetics Matters: Voyaging from the Past into the Future of Humanity and Sustainability. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. ISSN 1661-6596, APR 2022, vol. 23, no. 7. Dostupné na: https://doi.org/10.3390/ijms23073976, Registrované v: WOS

5. [1.1] DELGADO, A. - BENEDICT, C. - MACRANDER, J. - DALY, M. Never, Ever Make an Enemy horizontal ellipsis Out of an Anemone: Transcriptomic Comparison of Clownfish Hosting Sea Anemone Venoms. In MARINE DRUGS. DEC 2022, vol. 20, no. 12. Dostupné na: https://doi.org/10.3390/md20120730, Registrované v: WOS

6. [1.1] DU, M.J. - LI, M.Y. - LI, X.A. - YANG, H. - LI, Y. An insecticide application scheme in cotton fields with bi-directional selective effects on bees and pests. In INTERNATIONAL JOURNAL OF TROPICAL INSECT SCIENCE. ISSN 1742-7584, OCT 2022, vol. 42, no. 5, p. 3499-3511. Dostupné na: https://doi.org/10.1007/s42690-022-00875-7, Registrované v: WOS

7. [1.1] DVORáCEK, J. - KODRíK, D. Drug effect and addiction research with insects - From Drosophila to collective reward in honeybees. In NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. ISSN 0149-7634, SEP 2022, vol. 140. Dostupné na: https://doi.org/10.1016/j.neubiorev.2022.104816, Registrované v: WOS

8. [1.1] DüTTMANN, C. - FLORES, B. - SHELEBY-ELíAS, J. - CASTILLO, G. - RODRIGUEZ, D. - MAGGI, M. - DEMEDIO, J. Africanized honeybee population (Apis mellifera L.) in Nicaragua: Forewing length and mitotype lineages. In PLOS ONE. ISSN 1932-6203, 2022, vol. 17, no. 4. Dostupné na: https://doi.org/10.1371/journal.pone.0267600, Registrované v: WOS

9. [1.1] ERBAN, T. - SHCHERBACHENKO, E. - TALACKO, P. - HARANT, K. Honey proteome of the bumblebee Bombus terrestris: similarities, differences, and exceptionality compared to honey bee honey as signatures of eusociality evolution. In APIDOLOGIE. ISSN 0044-8435, MAR 2022, vol. 53, no. 1. Dostupné na: https://doi.org/10.1007/s13592-022-00928-3, Registrované v: WOS

10. [1.1] GARCíA, C.A.Y. - RODRIGUES, P.J. - TOFILSKI, A. - ELEN, D. - MCCORMAK, G.P. - OLEKSA, A. - HENRIQUES, D. - ILYASOV, R. - KARTASHEV, A. - BARGAIN, C. - FRIED, B. - PINTO, M.A. Using the Software DeepWings© to Classify Honey Bees across Europe through Wing Geometric Morphometrics. In INSECTS. DEC 2022, vol. 13, no. 12. Dostupné na: https://doi.org/10.3390/insects13121132, Registrované v: WOS

11. [1.1] GOMAA, S.A.S. - BARAKAT, E.M.S. - SALAMA, M.S. - EL GOHARY, E.E. Assessment of antibacterial genes of emerging queen Apis mellifera L. induced by the bacterium Paenibacillus larvae larvae. In AFRICAN ENTOMOLOGY. ISSN 1021-3589, 2022, vol. 30. Dostupné na: https://doi.org/10.17159/2254-8854/2022/a13586, Registrované v: WOS

12. [1.1] JINDAL, V. - LI, D.Q. - RAULT, L.C. - FATEHI, S. - SINGH, R. - MATING, M. - ZOU, Y. - NG, H.L. - KACZMAREK, K. - ZABROCKI, J. - GUI, S.H. - SMAGGHE, G. - ANDERSON, T.D. - NACHMAN, R.J. - PARK, Y. Bee-safe peptidomimetic acaricides achieved by comparative

genomics. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 14 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-20110-0, Registrované v: WOS
13. [1.1] KADRI, S.M. - RIBOLLA, P.E.M. - ALONSO, D.P. - DE JONG, D. - ORSI, R.D. Supering Apis mellifera (Hymenoptera, Apidae) beehives impairs honey production and biomarker genes. In SCIENTIA AGRICOLA. ISSN 1678-992X, 2022, vol. 79, no. 2. Dostupné na: https://doi.org/10.1590/1678-992X-2020-0283, Registrované v: WOS
14. [1.1] KARIMI, H.Z. - INNES, R.W. Molecular mechanisms underlying host-induced gene silencing. In PLANT CELL. ISSN 1040-4651, AUG 25 2022, vol. 34, no. 9, p. 3183-3199. Dostupné na: https://doi.org/10.1093/plcell/koac165, Registrované v: WOS
15. [1.1] LEIPART, V. - ENGER, O. - TURCU, D.C. - DOBROVOLSKA, O. - DRABLOS, F. - HALSKAU, O. - AMDAM, G. Resolving the zinc binding capacity of honey bee vitellogenin and locating its putative binding sites. In INSECT MOLECULAR BIOLOGY. ISSN 0962-1075, DEC 2022, vol. 31, no. 6, p. 810-820. Dostupné na: https://doi.org/10.1111/imb.12807, Registrované v: WOS
16. [1.1] LEIPART, V. - LUDVIGSEN, J. - KENT, M. - SANDVE, S. - TO, T.H. - ARNYASI, M. - KREIBICH, C.D. - DAHLE, B. - AMDAM, G.V. Identification of 121 variants of honey bee Vitellogenin protein sequences with structural differences at functional sites. In PROTEIN SCIENCE. ISSN 0961-8368, JUL 2022, vol. 31, no. 7. Dostupné na: https://doi.org/10.1002/pro.4369, Registrované v: WOS
17. [1.1] LI, Q.Q. - XUE, X.F. - QI, S.Z. - ZHAO, L.W. - ZHANG, W.W. - FAN, M. - WU, L.M. - WANG, M. Disinfectant dodecyl dimethyl benzyl ammonium chloride (DDBAC) disrupts gut microbiota, phospholipids, and calcium signaling in honeybees (Apis mellifera) at an environmentally relevant level. In ENVIRONMENT INTERNATIONAL. ISSN 0160-4120, DEC 2022, vol. 170. Dostupné na: https://doi.org/10.1016/j.envint.2022.107639, Registrované v: WOS
18. [1.1] LI, Z. - YANG, H.Y. - YU, L.T. - LIU, C. - WU, X. The negative effect of flumethrin stress on honey bee (Apis mellifera) worker from larvae to adults. In PESTICIDE BIOCHEMISTRY AND PHYSIOLOGY. ISSN 0048-3575, NOV 2022, vol. 188. Dostupné na: https://doi.org/10.1016/j.pestbp.2022.105289, Registrované v: WOS
19. [1.1] LIZANA, P. - MUTIS, A. - QUIROZ, A. - VENTHUR, H. Insights Into Chemosensory Proteins From Non-Model Insects: Advances and Perspectives in the Context of Pest Management. In FRONTIERS IN PHYSIOLOGY. AUG 22 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fphys.2022.924750, Registrované v: WOS
20. [1.1] MERCAN, L. - BULBUL, C.E. - MARAKLI, S. Genetic diversity among queen bee, worker bees and larvae in terms of retrotransposon movements. In GENETIC RESOURCES AND CROP EVOLUTION. ISSN 0925-9864, APR 2022, vol. 69, no. 4, p. 1671-1683. Dostupné na: https://doi.org/10.1007/s10722-021-01331-0, Registrované v: WOS
21. [1.1] MITO, T. - ISHIMARU, Y. - WATANABE, T. - NAKAMURA, T. - YLLA, G. - NOJI, S. - EXTAVOUR, C.G. Cricket: The third domesticated insect. In EMERGING MODEL SYSTEMS IN DEVELOPMENTAL BIOLOGY. ISSN 0070-2153, 2022, vol. 147, p. 291-306. Dostupné na: https://doi.org/10.1016/bs.ctdb.2022.02.003, Registrované v: WOS
22. [1.1] MORANDIN, C. - BRENDEL, V.P. Tools and applications for integrative analysis of DNA methylation in social insects. In MOLECULAR ECOLOGY RESOURCES. ISSN 1755-098X, MAY 2022, vol. 22, no. 4, p. 1656-1674. Dostupné na: https://doi.org/10.1111/1755-0998.13566, Registrované v: WOS
23. [1.1] MURESAN, C.I. - DEZMIREAN, D.S. - MARC, B.D. - SUHAROSCHI, R. - POP, O.L. - BUTTSTEDT, A. Biological properties and activities of major royal jelly proteins and their derived peptides. In JOURNAL OF FUNCTIONAL FOODS. ISSN 1756-4646, NOV 2022, vol. 98. Dostupné na: https://doi.org/10.1016/j.jff.2022.105286, Registrované v: WOS
24. [1.1] OPLER, P.A. - STOUT, T.L. - BACK, W. - ZHANG, J. - CONG, Q. - SHEN, J.H. - GRISHIN, N.V. DNA barcodes reveal different speciation scenarios in the four North American Anthocharis Boisduval, Rambur, [Dumenil] & Graslin, [1833] (Lepidoptera: Pieridae: Pierinae: Anthocharidini) species groups. In ZOOTAXA. ISSN 1175-5326, OCT 7 2022, vol. 5194, no. 4, p. 519-539. Dostupné na: https://doi.org/10.11646/zootaxa.5194.4.3, Registrované v: WOS
25. [1.1] RAZA, M.F. - ANWAR, M. - HUSAIN, A. - RIZWAN, M. - LI, Z.G. - NIE, H.Y. - HLAVáC, P. - ALI, M.A. - RADY, A. - SU, S. Differential gene expression analysis following olfactory learning in honeybee (Apis mellifera L.). In PLOS ONE. ISSN 1932-6203, FEB 9 2022, vol. 17, no. 2. Dostupné na: https://doi.org/10.1371/journal.pone.0262441, Registrované v: WOS
26. [1.1] RUBIN, B.E.R. Social insect colony size is correlated with rates of molecular evolution. In INSECTES SOCIAUX. ISSN 0020-1812, JUL 2022, vol. 69, no. 2-3, p. 147-157. Dostupné na: https://doi.org/10.1007/s00040-022-00859-3, Registrované v: WOS

27. [1.1] RUIZ-GONZáLEZ, M.X. - KELLY, M. - MORET, Y. - BROWN, M.J.F. Parasite resistance and immunity across female castes in a social insect. In BEHAVIORAL ECOLOGY AND SOCIOBIOLOGY. ISSN 0340-5443, APR 2022, vol. 76, no. 4. Dostupné na: https://doi.org/10.1007/s00265-022-03162-0, Registrované v: WOS
28. [1.1] TAN, C.H. Snake Venomics: Fundamentals, Recent Updates, and a Look to the Next Decade. In TOXINS. APR 2022, vol. 14, no. 4. Dostupné na: https://doi.org/10.3390/toxins14040247, Registrované v: WOS
29. [1.1] VEINER, M. - MORIMOTO, J. - LEADBEATER, E. - MANFREDINI, F. Machine learning models identify gene predictors of waggle dance behaviour in honeybees. In MOLECULAR ECOLOGY RESOURCES. ISSN 1755-098X, AUG 2022, vol. 22, no. 6, p. 2248-2261. Dostupné na: https://doi.org/10.1111/1755-0998.13611, Registrované v: WOS
30. [1.1] WANG, X. - SHUAI, J. - KONG, Y.J. - LI, Z. - LI, W.H. - CHENG, J.G. Mechanism of the distinct toxicity level of imidacloprid and thiacloprid against honey bees: An in silico study based on cytochrome P450 <emuQ3. In JOURNAL OF MOLECULAR GRAPHICS & MODELLING. ISSN 1093-3263, NOV 2022, vol. 116. Dostupné na: https://doi.org/10.1016/j.jmgm.2022.108257, Registrované v: WOS
31. [1.1] YOKOI, K. - WAKAMIYA, T. - BONO, H. Meta-Analysis of the Public RNA-Seq Data of the Western Honeybee Apis mellifera to Construct Reference Transcriptome Data. In INSECTS. OCT 2022, vol. 13, no. 10. Dostupné na: https://doi.org/10.3390/insects13100931, Registrované v: WOS
32. [1.1] ZHAO, D.X. - CHEN, D.Y. - SU, X.L. - ZHANG, X.J. - LIU, Y.J. Transcriptome explores changes in gene expression profile contributed by Camellia sinensis (L.) in Apis cerana cerana and Apis mellifera ligustica. In JOURNAL OF ASIA-PACIFIC ENTOMOLOGY. ISSN 1226-8615, SEP 2022, vol. 25, no. 3. Dostupné na: https://doi.org/10.1016/j.aspen.2022.101973, Registrované v: WOS
33. [1.1] ZHAO, X.M. - LIU, Y.J. Current Knowledge on Bee Innate Immunity Based on Genomics and Transcriptomics. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. NOV 2022, vol. 23, no. 22. Dostupné na: https://doi.org/10.3390/ijms232214278, Registrované v: WOS
34. [1.1] ZHU, Z.W. - WANG, J. - FAN, X.X. - LONG, Q. - CHEN, H.Z. - YE, Y.P. - ZHANG, K.Y. - REN, Z.M. - ZHANG, Y. - NIU, Q.S. - CHEN, D.F. - GUO, R. CircRNA-regulated immune responses of asian honey bee workers to microsporidian infection. In FRONTIERS IN GENETICS. OCT 4 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fgene.2022.1013239, Registrované v: WOS

ADCA361 WIEDORN, M.O. - OBERTHÜR, D. - BEAN, R. - SCHUBERT, R. - WERNER, N. - BARÁK, Imrich. Megahertz serial crystallography. In Nature Communications, 2018, vol. 9, no. 4025. (2017: 12.353 - IF, Q1 - JCR, 6.582 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents, WOS, SCOPUS). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-018-06156-7

Citácie:

1. [1.1] BARENDS, T.R.M. - STAUCH, B. - CHEREZOV, V. - SCHLICHTING, I. Serial femtosecond crystallography. In NATURE REVIEWS METHODS PRIMERS. AUG 4 2022, vol. 2, no. 1., Registrované v: WOS
2. [1.1] BATH, P. - BANACORE, A. - BORJESSON, P. - BOSMAN, R. - WICKSTRAND, C. - SAFARI, C. - DODS, R. - GHOSH, S. - DAHL, P. - ORTOLANI, G. - ULFARSDOTTIR, T.B. - HAMMARIN, G. - BONETE, M.J.G. - VALLEJOS, A. - OSTOJIC, L. - EDLUND, P. - LINSE, J.B. - ANDERSSON, R. - NANGO, E. - OWADA, S. - TANAKA, R. - TONO, K. - JOTI, Y. - NUREKI, O. - LUO, F.J. - JAMES, D. - NASS, K. - JOHNSON, P.J.M. - KNOPP, G. - OZEROV, D. - CIRELLI, C. - MILNE, C. - IWATA, S. - BRANDEN, G. - NEUTZE, R. Lipidic cubic phase serial femtosecond crystallography structure of a photosynthetic reaction centre. In ACTA CRYSTALLOGRAPHICA SECTION D-STRUCTURAL BIOLOGY. ISSN 2059-7983, JUN 1 2022, vol. 78, 6, p. 698-708., Registrované v: WOS
3. [1.1] BRUMMER, T. - BOHLEN, S. - GRUNER, F. - OSTERHOFF, J. - PODER, K. Compact all-optical precision-tunable narrowband hard Compton X-ray source. In SCIENTIFIC REPORTS. ISSN 2045-2322, SEP 26 2022, vol. 12, no. 1., Registrované v: WOS
4. [1.1] DALTON, K.M. - GREISMAN, J.B. - HEKSTRA, D.R. A unifying Bayesian framework for merging X-ray diffraction data. In NATURE COMMUNICATIONS. DEC 15 2022, vol. 13, no. 1., Registrované v: WOS
5. [1.1] SHERRELL, D.A. - LAVENS, A. - WILAMOWSKI, M. - KIM, Y. - CHARD, R. - LAZARSKI, K. - ROSENBAUM, G. - VESCOVI, R. - JOHNSON, J.L. - AKINS, C. - CHANG, C. - MICHALSKA, K. - BABNIGG, G. - FOSTER, I. - JOACHIMIAK, A. Fixed-target serial crystallography at the Structural Biology Center. In JOURNAL OF SYNCHROTRON RADIATION. ISSN 0909-0495, SEP 2022, vol. 29, 5, SI, p. 1141-1151., Registrované v: WOS
6. [1.1] SOLTAU, J. - OSTERHOFF, M. - SALDITT, T. Coherent Diffractive Imaging with Diffractive Optics. In PHYSICAL REVIEW LETTERS. ISSN 0031-9007, MAY 31 2022, vol. 128,

no. 22., Registrované v: WOS
7. [1.1] XUE-QING, X.I.N.G. - CHAO, L. - GUANG, M. - YING, S. - ZHONG-HUA, W.U. Irradiation Damage and Protection Strategies of Protein Solution in SAXS Experiments br. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, SEP 2022, vol. 49, no. 9, p. 1703-1718., Registrované v: WOS
8. [1.2] KOVALCHUK, M. V. - BLAGOV, A. E. European X-ray Free-Electron Laser. In Crystallography Reports, 2022-10-01, 67, 5, pp. 631-675. ISSN 10637745. Dostupné na: https://doi.org/10.1134/S1063774522050066, Registrované v: SCOPUS

ADCA362 ZAIN, Gamal - BUČKOVÁ, Mária - MOSNÁČKOVÁ, Katarína - DOHÁŇOŠOVÁ, Jana - OPÁLKOVÁ ŠIŠKOVÁ, Alena - MIČUŠÍK, Matej - KLEINOVÁ, Angela - MATÚŠ, Peter - MOSNÁČEK, Jaroslav**. Antibacterial cotton fabric prepared by surface-initiated photochemically induced atom transfer radical polymerization of 2-(dimetylamino)ethyl methacrylate with subsequent quaternization. In Polymer Chemistry, 2021, vol. 12, p. 7073-7084. (2020: 5.582 - IF, Q1 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1759-9954.

Citácie:
1. [1.1] PHUTTHATHAM, L. - NGERNCHUKLIN, P. - KAEWPA, D. - CHAIYASAT, P. - CHAIYASAT, A. UV-activated coating polymer particle containing quaternary ammonium for antimicrobial fabrics. In COLLOID AND POLYMER SCIENCE. ISSN 0303-402X, APR 2022, vol. 300, no. 4, SI, p. 351-364., Registrované v: WOS
2. [1.1] PRATEEPMANEERAK, N. - CHAIYASAT, A. - KAEWPA, D. - CHAIYASAT, P. Innovative bifunctional heat storage nanocapsules containing polymerizable surfactant for antimicrobial thermoregulating clothes. In COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS. ISSN 0927-7757, NOV 20 2022, vol. 653., Registrované v: WOS

ADCA363 ZÁMOCKÝ, Marcel** - MUSIL, Miloš - DANCHENKO, Maksym - FERIANC, Peter - CHOVANOVÁ, Katarína - BARÁTH, Peter - POLJOVKA, Andrej - BEDNÁŘ, David. Deep Insights into the Specific Evolution of Fungal Hybrid B Heme Peroxidases. In Biology-Basel, 2022, vol. 11, iss. 3, art. no. 459. (2021: 5.168 - IF, Q1 - JCR, 0.903 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology11030459 (VEGA č. 2/0012/22. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. APVV-20-0257 : Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine)

Citácie:
1. [1.1] PHINTHA, A. - CHAIYEN, P. Rational and mechanistic approaches for improving biocatalyst performance. In CHEM CATALYSIS. ISSN 2667-1093, OCT 20 2022, vol. 2, no. 10, p. 2614-2643. Dostupné na: https://doi.org/10.1016/j.checat.2022.09.026, Registrované v: WOS

ADCA364 ZÁMOCKÝ, Marcel - GODOČÍKOVÁ, Jana - KOLLER, F. - POLEK, Bystrík. Potential application of catalase-peroxidase from Comamonas terrigena N3H in the biodegradation of phenolic compounds. In Antonie van Leeuwenhoek, 2001, vol. 79, p. 109-117. ISSN 0003-6072. Dostupné na: https://doi.org/10.1023/A:1010294130534

Citácie:
1. [1.1] NIU, Xian - ZHANG, Jianbin - SUO, Yonglu - FU, Jilagamazhi. Proteomic analysis of Fusarium sp. NF01 revealed a multi-level regulatory machinery for lignite biodegradation. In ENERGY, 2022, vol. 250, no., pp. ISSN 0360-5442. Dostupné na: https://doi.org/10.1016/j.energy.2022.123763, Registrované v: WOS
2. [1.1] OLAYIDE, Obidi F. - AYOMIKUN, Kade E. - TEMITOPE, Fadipe O. A first report on the identification of a novel archaea, Methanospirillum lacunae from spoilt paints in Lagos, Nigeria using a metagenomic approach. In SCIENTIFIC AFRICAN, 2022, vol. 15, no., pp. ISSN 2468-2276. Dostupné na: https://doi.org/10.1016/j.sciaf.2021.e01029, Registrované v: WOS
3. [1.1] WANG, Wenjing - LIU, Anran - CHEN, Xiancao - ZHENG, Xiaoyan - FU, Wenting - WANG, Gang - JI, Jing - JIN, Chao - GUAN, Chunfeng. The potential role of betaine in enhancement of microbial-assisted phytoremediation of benzophenone-3 contaminated soil. In CHEMOSPHERE, 2022, vol. 307, no., pp. ISSN 0045-6535. Dostupné na: https://doi.org/10.1016/j.chemosphere.2022.135783, Registrované v: WOS
4. [1.2] PRASAD, Jay Kishor - RAGHUWANSHI, Richa. Mechanisms of multifarious soil microbial enzymes in plant growth promotion and environmental sustainability. In Bioprospecting of Microbial Diversity: Challenges and Applications in Biochemical Industry, Agriculture and Environment Protection, 2022-01-01, pp. 117-143. Dostupné na: https://doi.org/10.1016/B978-0-323-90958-7.00020-0, Registrované v: SCOPUS

ADCA365 ZÁMOCKÝ, Marcel - DROGHETTTI, Enrica - BELLEI, M. - GASSELHUBER, B. - PABST, M. - FURTMULLER, P.G. - BATTISTUZZI, G. - SMULEVICH, Giulietta - OBINGER, C. Eukaryotic extracellular catalase-peroxidase from Magnaporthe grisea - Biophysical/chemical characterization of the first representative from a novel phytopathogenic KatG group. In Biochimie, 2012, vol. 94, p. 673-683. (2011: 3.022 - IF, Q2 - JCR, 1.383 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current

Contents). ISSN 0300-9084. Dostupné na: https://doi.org/10.1016/j.biochi.2011.09.020

Citácie:

1. [1.1] HANSBERG, W. Monofunctional Heme-Catalases. In ANTIOXIDANTS. NOV 2022, vol. 11, no. 11., Registrované v: WOS

ADCA366 ZÁMOCKÝ, Marcel - HOFBAUER, S. - SCHAFFNER, I. - GASSELHUBER, B. - NICOLUSSI, A. - SOUDI, M. - PIRKER, K.F. - FURTMULLER, P.G. - OBINGER, C. Independent evolution of four heme peroxidase superfamilies. In Archives of Biochemistry and Biophysics, 2015, vol. 574, p. 108–119. (2014: 3.017 - IF, Q2 - JCR, 1.381 - SJR, Q1 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2014.12.025

Citácie:

1. [1.1] ADAMO, M. - COMTET-MARRE, S. - BüTTNER, E. - KELLNER, H. - LUIS, P. - VALLON, L. - PREGO, R. - HOFRICHTER, M. - GIRLANDA, M. - PEYRET, P. - MARMEISSE, R. Fungal dye-decolorizing peroxidase diversity: roles in either intra- or extracellular processes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, APR 2022, vol. 106, no. 8, p. 2993-3007. Dostupné na: https://doi.org/10.1007/s00253-022-11923-0, Registrované v: WOS

2. [1.1] ANDRéS, C.M.C. - DE LA LASTRA, J.M.P. - JUAN, C.A. - PLOU, F.J. - PéREZ-LEBEñA, E. Hypochlorous Acid Chemistry in Mammalian Cells-Influence on Infection and Role in Various Pathologies. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2022, vol. 23, no. 18. Dostupné na: https://doi.org/10.3390/ijms231810735, Registrované v: WOS

3. [1.1] ARNHOLD, J. - MALLE, E. Halogenation Activity of Mammalian Heme Peroxidases. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5. Dostupné na: https://doi.org/10.3390/antiox11050890, Registrované v: WOS

4. [1.1] AYUSO-FERNáNDEZ, I. - MOLPECERES, G. - CAMARERO, S. - RUIZ-DUEñAS, F.J. - MARTíNEZ, A.T. Ancestral sequence reconstruction as a tool to study the evolution of wood decaying fungi. In FRONTIERS IN FUNGAL BIOLOGY. OCT 14 2022, vol. 3. Dostupné na: https://doi.org/10.3389/ffunb.2022.1003489, Registrované v: WOS

5. [1.1] DHAGAT, S. - JUJJAVARAPU, S.E. Utility of lignin-modifying enzymes: a green technology for organic compound mycodegradation. In JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY. ISSN 0268-2575, FEB 2022, vol. 97, no. 2, SI, p. 343-358. Dostupné na: https://doi.org/10.1002/jctb.6807, Registrované v: WOS

6. [1.1] FERREIRA, D.D.S. - DE SANTANA, C.S. - SANTANA, I.B. - ARAúJO, J.S.C. - DE SOUZA, B.C. - LEITE, F.H.A. - KATO, R.B. - BENEVIDES, R.G. - GóES-NETO, A. Functional annotation and comparative modeling of ligninolytic enzymes from Trametes villosa (SW.) Kreisel for biotechnological applications. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, SEP 22 2022, vol. 40, no. 14, p. 6330-6339. Dostupné na: https://doi.org/10.1080/07391102.2021.1883479, Registrované v: WOS

7. [1.1] FRANGIE, C. - DAHER, J. Role of myeloperoxidase in inflammation and atherosclerosis (Review). In BIOMEDICAL REPORTS. ISSN 2049-9434, JUN 2022, vol. 16, no. 6. Dostupné na: https://doi.org/10.3892/br.2022.1536, Registrované v: WOS

8. [1.1] OMURA, I. - ISHIMORI, K. - UCHIDA, T. Converting cytochrome c into a DyP-like metalloenzyme. In DALTON TRANSACTIONS. ISSN 1477-9226, AUG 23 2022, vol. 51, no. 33, p. 12641-12649. Dostupné na: https://doi.org/10.1039/d2dt02137d, Registrované v: WOS

9. [1.1] OREFICE, I. - ROMANO, G. - DI DATO, V. The biosynthesis and metabolism of prostaglandins in microalgae. In LIPIDS IN PLANTS AND ALGAE: From Fundamental Science to Industrial Applications. ISSN 0065-2296, 2022, vol. 101, p. 375-436. Dostupné na: https://doi.org/10.1016/bs.abr.2021.09.004, Registrované v: WOS

10. [1.1] PISANESCHI, F. - GAMMON, S.T. - PAOLILLO, V. - QURESHY, S.A. - PIWNICA-WORMS, D. Imaging of innate immunity activation in vivo with a redox-tuned PET reporter. In NATURE BIOTECHNOLOGY. ISSN 1087-0156, JUN 2022, vol. 40, no. 6, p. 965-+. Dostupné na: https://doi.org/10.1038/s41587-021-01169-y, Registrované v: WOS

11. [1.1] SINGHANIA, R.R. - PATEL, A.K. - RAJ, T. - CHEN, C.W. - PONNUSAMY, V.K. - TAHIR, N. - KIM, S.H. - DONG, C.D. Lignin valorisation via enzymes: A sustainable approach. In FUEL. ISSN 0016-2361, MAR 1 2022, vol. 311. Dostupné na: https://doi.org/10.1016/j.fuel.2021.122608, Registrované v: WOS

12. [1.1] VALADEZ-COSMES, P. - RAFTOPOULOU, S. - MIHALIC, Z.N. - MARSCHE, G. - KARGL, J. Myeloperoxidase: Growing importance in cancer pathogenesis and potential drug target. In PHARMACOLOGY & THERAPEUTICS. ISSN 0163-7258, AUG 2022, vol. 236. Dostupné na: https://doi.org/10.1016/j.pharmthera.2021.108052, Registrované v: WOS

13. [1.1] XU, S.Q. - CHUANG, C.Y. - MALLE, E. - GAMON, L.F. - HAWKINS, C.L. - DAVIES, M.J. Influence of plasma halide, pseudohalide and nitrite ions on myeloperoxidase-mediated protein and extracellular matrix damage. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, AUG 1 2022, vol. 188, p. 162-174. Dostupné na:

https://doi.org/10.1016/j.freeradbiomed.2022.06.222, Registrované v: WOS
14. [1.1] ZHAO, L. - ZHANG, J.Y. - ZHAO, D.Y. - JIA, L. - QIN, B. - CAO, X.Y. - ZANG, L.H. - LU, F.P. - LIU, F.F. Biological degradation of lignin: A critical review on progress and perspectives. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, NOV 15 2022, vol. 188, B. Dostupné na: https://doi.org/10.1016/j.indcrop.2022.115715, Registrované v: WOS
15. [1.2] JARDIM-MESSEDER, Douglas - CAVERZAN, Andreia - BASTOS, Gabriel Afonso - GALHEGO, Vanessa - DE SOUZA-VIEIRA, Ygor - LAZZAROTTO, Fernanda - FELIX-MENDES, Esther - LAVAQUIAL, Lucas - JUNIOR, José Nicomedes - MARGIS-PINHEIRO, Márcia - SACHETTO-MARTINS, Gilberto. Genome-wide, evolutionary, and functional analyses of ascorbate peroxidase (APX) family in Poaceae species. In Genetics and Molecular Biology, 2022-01-01, 46, 1, pp. ISSN 14154757. Dostupné na: https://doi.org/10.1590/1678-4685-GMB-2022-0153, Registrované v: SCOPUS
16. [1.2] LEE, Adriana C. - IBRAHIM, Mohamad Faizal - ABD-AZIZ, Suraini. Lignin-Degrading Enzymes. In Biorefinery of Oil Producing Plants for Value-Added Products: Volume 1, 2022-01-01, 1, pp. 179-198. Dostupné na: https://doi.org/10.1002/9783527830756.ch10, Registrované v: SCOPUS

ADCA367 ZÁMOCKÝ, Marcel - SCHUMANN, C. - SYGMUND, C. - CALLAGHAN, J.O. - DOBSON, A.D. - LUDWIG, R. - HALTRICH, D. - PETERBAUER, C.K. Cloning, sequence analysis and heterologous expression in Pichia pastoris of a gene encoding a thermostable cellobiose dehydrogenase from Myriococcum thermophilum. In Protein Expression and Purification, 2008, vol. 59, p. 258-265. (2007: 1.940 - IF, Q3 - JCR, 1.039 - SJR, Q2 - SJR). ISSN 1046-5928. Dostupné na: https://doi.org/10.1016/j.pep.2008.02.007

Citácie:
1. [1.1] KOMMEDAL, E.G. - SæTHER, F. - HAHN, T. - EIJSINK, V.G.H. Natural photoredox catalysts promote light-driven lytic polysaccharide monooxygenase reactions and enzymatic turnover of biomass. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, AUG 15 2022, vol. 119, no. 34. Dostupné na: https://doi.org/10.1073/pnas.2204510119, Registrované v: WOS
2. [1.1] OSTBY, H. - JAMESON, J.K. - COSTA, T. - EIJSINK, V.G.H. - ARNTZEN, M.O. Chromatographic analysis of oxidized cello-oligomers generated by lytic polysaccharide monooxygenases using dual electrolytic eluent generation. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, JAN 11 2022, vol. 1662. Dostupné na: https://doi.org/10.1016/j.chroma.2021.462691, Registrované v: WOS
3. [1.1] STEPNOV, A.A. - EIJSINK, V.G.H. - FORSBERG, Z. Enhanced in situ H2O2 production explains synergy between an LPMO with a cellulose-binding domain and a single-domain LPMO. In SCIENTIFIC REPORTS. ISSN 2045-2322, APR 12 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-10096-0, Registrované v: WOS
4. [1.1] TOLGO, M. - HEGNAR, O.A. - OSTBY, H. - VáRNAI, A. - VILAPLANA, F. - EIJSINK, V.G.H. - OLSSON, L. Comparison of Six Lytic Polysaccharide Monooxygenases from Thermothielavioides terrestris Shows That Functional Variation Underlies the Multiplicity of LPMO Genes in Filamentous Fungi. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, MAR 2022, vol. 88, no. 6. Dostupné na: https://doi.org/10.1128/aem.00096-22, Registrované v: WOS
5. [1.1] ZHAO, H.B. - KARPPI, J. - NGUYEN, T.T.M. - BELLEMARE, A. - TSANG, A. - MASTER, E. - TENKANEN, M. Characterization of a novel AA3_1 xylooligosaccharide dehydrogenase from Thermothelomyces myriococcoides CBS 398.93. In BIOTECHNOLOGY FOR BIOFUELS AND BIOPRODUCTS. DEC 7 2022, vol. 15, no. 1. Dostupné na: https://doi.org/10.1186/s13068-022-02231-w, Registrované v: WOS

ADCA368 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Evolution of structure and function of Class I peroxidases. In Archives of Biochemistry and Biophysics, 2010, vol. 500, p. 45-57. (2009: 3.046 - IF, Q2 - JCR, 1.403 - SJR, Q1 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2010.03.024

Citácie:
1. [1.1] BOUACEM, Khelifa - ALLALA, Fawzi - JAOUADI, Nadia Zarai - HAMDI, Sondes - MECHRI, Sondes - IGHILAHRIZ, Kahina - REKIK, Hatem - HACENE, Hocine - BOUANANE-DARENFED, Amel - JAOUADI, Bassem. A novel peroxidase from white-rot Agaricomycetes fungus Phlebia radiata strain KB-DZ15: Its purification, characterisation, and potential application for dye-decolorisation and lignin-biodegradation. In BIOCATALYSIS AND BIOTRANSFORMATION, 2022, vol. 40, no. 5, pp. 365-377. ISSN 1024-2422. Dostupné na: https://doi.org/10.1080/10242422.2021.1939315, Registrované v: WOS

ADCA369 ZÁMOCKÝ, Marcel - JANEČEK, Štefan - OBINGER, C. Fungal Hybrid B heme peroxidases - unique fusions of a heme peroxidase domain with a carbohydrate-binding domain. In Scientific Reports, 2017, vol. 7, art. no. 9393. (2016: 4.259 - IF, Q1 - JCR, 1.692 - SJR, Q1 - SJR, karentované -

CCC). (2017 - Current Contents). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-017-09581-8

Citácie:

1. [1.1] BISSARO, B. - KODAMA, S. - NISHIUCHI, T. - DíAZ-ROVIRA, A.M. - HAGE, H. - RIBEAUCOURT, D. - HAON, M. - GRISEL, S. - SIMAAN, A.J. - BEISSON, F. - FORGET, S.M. - BRUMER, H. - ROSSO, M.N. - GUALLAR, V. - O';CONNELL, R. - LAFOND, M. - KUBO, Y. - BERRIN, J.G. Tandem metalloenzymes gate plant cell entry by pathogenic fungi. In SCIENCE ADVANCES. ISSN 2375-2548, DEC 21 2022, vol. 8, no. 51. Dostupné na: https://doi.org/10.1126/sciadv.ade9982, Registrované v: WOS

2. [1.2] LI, Bing - LIU, Liu - GUO, Shun Xing. Differential proteome of Armillaria mellea in association with fungal rhizomorph differentiation. In Mycosystema, 2021-01-01, 40, 6, pp. 1357-1368. ISSN 16726472. Dostupné na: https://doi.org/10.13346/j.mycosystema.210024, Registrované v: SCOPUS

ADCA370 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Two distinct groups of fungal catalase/peroxidases. In Biochemical Society Transactions, 2009, vol. 37, p. 772-777. (2008: 2.979 - IF, Q2 - JCR, 2.247 - SJR, Q1 - SJR, karentované - CCC). (2009 - Current Contents). ISSN 0300-5127. Dostupné na: https://doi.org/10.1042/BST0370772

Citácie:

1. [1.1] CHEN, Jie - HAN, Shan - LI, Shujiang - WANG, Ming - ZHU, Hanmingyue - QIAO, Tianmin - LIN, Tiantian - ZHU, Tianhui. Comparative Transcriptomics and Gene Knockout Reveal Virulence Factors of Neofusicoccum parvum in Walnut. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.926620, Registrované v: WOS

2. [1.1] IDALIA VARGAS-MAYA, Nauru - OLMEDO-MONFIL, Vianey - HUMBERTO RAMIREZ-PRADO, Jorge - REYES-CORTES, Ruth - PADILLA-VACA, Felipe - FRANCO, Bernardo. Catalases in the pathogenesis of Sporothrix schenckii research. In PEERJ, 2022, vol. 10, no., pp. ISSN 2167-8359. Dostupné na: https://doi.org/10.7717/peerj.14478, Registrované v: WOS

3. [1.2] KARPOV, V. - SMIRNOV, V. F. - SMIRNOVA, O. N. - ANIKINA, N. A. - ZAKHAROVA, E. A. - SHISHKIN, A. Yu - IVANOVA, A. E. - SEMENOVA. The Action of Biocides on the Activity of Some Extracellular Enzymes of Fungal Destructors of Technical Products Exploited under a Tropical Climate (Vietnam). In Mikologiya I Fitopatologiya, 2022-01-01, 56, 3, pp. 185-193. ISSN 00263648. Dostupné na: https://doi.org/10.31857/S0026364822030047, Registrované v: SCOPUS

4. [1.2] KARPOV, V. A. - SMIRNOV, V. F. - SMIRNOVA, O. N. - ANIKINA, N. A. - ZAKHAROVA, E. A. - SHISHKIN, A. Yu - IVANOVA, A. E. - SEMENOVA, T. A. Effect of Biocides on the Activity of Extracellular Enzymes Produced by Degrader Fungi from Technical Objects Used in Tropical Climates (Vietnam). In Doklady Biological Sciences, 2022-12-01, 507, 1, pp. 394-401. ISSN 00124966. Dostupné na: https://doi.org/10.1134/S0012496622060060, Registrované v: SCOPUS

ADCA371 ZÁMOCKÝ, Marcel - GASSELHUBER, B. - FURTMULLER, P.G. - OBINGER, C. Molecular evolution of hydrogen peroxide degrading enzymes. In Archives of Biochemistry and Biophysics, 2012, vol. 525, p. 131-144. (2011: 2.935 - IF, Q2 - JCR, 1.390 - SJR, Q1 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0003-9861. Dostupné na: https://doi.org/10.1016/j.abb.2012.01.017

Citácie:

1. [1.1] ADAMO, M. - COMTET-MARRE, S. - BüTTNER, E. - KELLNER, H. - LUIS, P. - VALLON, L. - PREGO, R. - HOFRICHTER, M. - GIRLANDA, M. - PEYRET, P. - MARMEISSE, R. Fungal dye-decolorizing peroxidase diversity: roles in either intra- or extracellular processes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, APR 2022, vol. 106, no. 8, p. 2993-3007. Dostupné na: https://doi.org/10.1007/s00253-022-11923-0, Registrované v: WOS

2. [1.1] ALAERJANI, W.M.A. - ABU-MELHA, S. - ALSHAREEF, R.M.H. - AL-FARHAN, B.S. - GHRAMH, H.A. - AL-SHEHRI, B.M.A. - BAJABER, M.A. - KHAN, K.A. - ALROOQI, M.M. - MODAWE, G.A. - MOHAMMED, M.E.A. Biochemical Reactions and Their Biological Contributions in Honey. In MOLECULES. AUG 2022, vol. 27, no. 15. Dostupné na: https://doi.org/10.3390/molecules27154719, Registrované v: WOS

3. [1.1] HAN, S.R. - LI, Y.X. - GAO, H.C. Generation and Physiology of Hydrogen Sulfide and Reactive Sulfur Species in Bacteria. In ANTIOXIDANTS. DEC 2022, vol. 11, no. 12. Dostupné na: https://doi.org/10.3390/antiox11122487, Registrované v: WOS

4. [1.1] HANSBERG, W. - NAVA-RAMíREZ, T. - RANGEL-SILVA, P. - DíAZ-VILCHIS, A. - MENDOZA-OLIVA, A. Large-Size Subunit Catalases Are Chimeric Proteins: A H2O2 Selecting Domain with Catalase Activity Fused to a Hsp31-Derived Domain Conferring Protein Stability and Chaperone Activity. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5. Dostupné na: https://doi.org/10.3390/antiox11050979, Registrované v: WOS

5. [1.1] HANSBERG, W. Monofunctional Heme-Catalases. In ANTIOXIDANTS. NOV 2022, vol.

11, no. 11. Dostupné na: https://doi.org/10.3390/antiox11112173, Registrované v: WOS
6. [1.1] IDZIK, M. - POLOCZEK, J. - SKRZEP-POLOCZEK, B. - CHELMECKA, E. - JOCHEM, J. - STYGAR, D. General Rehabilitation Program after Knee or Hip Replacement Significantly Influences Erythrocytes Oxidative Stress Markers and Serum ST2 Levels. In OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. ISSN 1942-0900, MAR 30 2022, vol. 2022. Dostupné na: https://doi.org/10.1155/2022/1358858, Registrované v: WOS
7. [1.1] KARPUZ, B. - ÇAKIR, Ö. Effect of proteasome inhibitor MG132 on the expression of oxidative metabolism related genes in tomato. In FOOD SCIENCE AND TECHNOLOGY. ISSN 0101-2061, 2022, vol. 42. Dostupné na: https://doi.org/10.1590/fst.52420, Registrované v: WOS
8. [1.1] MATTILA, H. - ÖSTERMAN-UDD, J. - MALI, T. - LUNDELL, T. Basidiomycota Fungi and ROS: Genomic Perspective on Key Enzymes Involved in Generation and Mitigation of Reactive Oxygen Species. In FRONTIERS IN FUNGAL BIOLOGY. MAR 23 2022, vol. 3. Dostupné na: https://doi.org/10.3389/ffunb.2022.837605, Registrované v: WOS
9. [1.1] MCCAIN, J.S.P. - BERTRAND, E.M. Phytoplankton antioxidant systems and their contributions to cellular elemental stoichiometry. In LIMNOLOGY AND OCEANOGRAPHY LETTERS. APR 2022, vol. 7, no. 2, p. 96-111. Dostupné na: https://doi.org/10.1002/lol2.10233, Registrované v: WOS
10. [1.1] NEIRA, G. - VERGARA, E. - CORTEZ, D. - HOLMES, D.S. A Large-Scale Multiple Genome Comparison of Acidophilic Archaea (pH ≤ 5.0) Extends Our Understanding of Oxidative Stress Responses in Polyextreme Environments. In ANTIOXIDANTS. JAN 2022, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/antiox11010059, Registrované v: WOS
11. [1.1] NGETICH, D.K. - BETT, R.C. - GACHUIRI, C.K. - KIBEGWA, F.M. Diversity of gut methanogens and functional enzymes associated with methane metabolism in smallholder dairy cattle. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, OCT 2022, vol. 204, no. 10. Dostupné na: https://doi.org/10.1007/s00203-022-03187-z, Registrované v: WOS
12. [1.1] NOWICKA, B. Heavy metal-induced stress in eukaryotic algae-mechanisms of heavy metal toxicity and tolerance with particular emphasis on oxidative stress in exposed cells and the role of antioxidant response. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, MAR 2022, vol. 29, no. 12, p. 16860-16911. Dostupné na: https://doi.org/10.1007/s11356-021-18419-w, Registrované v: WOS
13. [1.1] PAN, L.Z. - LUO, Y. - WANG, J. - LI, X.M. - TANG, B.Q. - YANG, H.P. - HOU, X.L. - LIU, F. - ZOU, X.X. Evolution and functional diversification of catalase genes in the green lineage. In BMC GENOMICS. ISSN 1471-2164, JUN 1 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12864-022-08621-6, Registrované v: WOS
14. [1.1] YOSHIO, K. - YOSHIOKA, Y. - TOSHIKUNI, K. Physiological roles of catalases Cat1 and Cat2 in Myxococcus xanthus. In JOURNAL OF MICROBIOLOGY. ISSN 1225-8873, DEC 2022, vol. 60, no. 12, p. 1168-1177. Dostupné na: https://doi.org/10.1007/s12275-022-2277-7, Registrované v: WOS
15. [1.2] CIBULKA, Radek - FRAAIJE, Marco W. Modes of Flavin-Based Catalysis. In Flavin-Based Catalysis: Principles and Applications, 2021-01-01, pp. 97-124. Dostupné na: https://doi.org/10.1002/9783527830138.ch4, Registrované v: SCOPUS
16. [1.2] SHABANOV, Petr D. - FISHER, Evgeny L. - URAKOV, Aleksandr L. Hydrogen peroxide formulations and methods of their use for blood oxygen saturation. In Journal of Medical Pharmaceutical and Allied Sciences, 2022-11-01, 11, 6, pp. 5489-5493. Dostupné na: https://doi.org/10.55522/jmpas.V11I6.4604, Registrované v: SCOPUS

ADCA372 ZÁMOCKÝ, Marcel - JAKOPITSCH, C. - FURTMULLER, P.G. - DUNAND, C. - OBINGER, C. The peroxidase-cyclooxygenase superfamily:Reconstructed evolution of critical enzymes of the innate immune system. In Proteins : structure function and bioinformatics, 2008, vol. 72, p. 589-605. (2007: 3.354 - IF, Q2 - JCR, 2.165 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 0887-3585. Dostupné na: https://doi.org/10.1002/prot.21950

Citácie:
1. [1.1] ARNHOLD, J. - MALLE, E. Halogenation Activity of Mammalian Heme Peroxidases. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5. Dostupné na: https://doi.org/10.3390/antiox11050890, Registrované v: WOS
2. [1.1] FRANGIE, C. - DAHER, J. Role of myeloperoxidase in inflammation and atherosclerosis (Review). In BIOMEDICAL REPORTS. ISSN 2049-9434, JUN 2022, vol. 16, no. 6. Dostupné na: https://doi.org/10.3892/br.2022.1536, Registrované v: WOS
3. [1.1] LEMOS, C.N. - DA SILVA, L.E.C.M. - FAUSTINO, J.F. - FANTUCCI, M.Z. - MURASHIMA, A.D.B. - ADRIANO, L. - ALVES, M. - ROCHA, E.M. Oxidative Stress in the Protection and Injury of the Lacrimal Gland and the Ocular Surface: are There Perspectives for Therapeutics?. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. ISSN 2296-634X, MAR 11 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fcell.2022.824726, Registrované v: WOS

4. [1.1] OLIW, E.H. Iron and manganese lipoxygenases of plant pathogenic fungi and their role in biosynthesis of jasmonates. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, JUN 15 2022, vol. 722. Dostupné na: https://doi.org/10.1016/j.abb.2022.109169, Registrované v: WOS
5. [1.1] PAPE, V.F.S. - KOVACS, H.A. - SZATMARI, I. - UGRAI, I. - SZIKORA, B. - KACSKOVICS, I. - MAY, Z. - SZOBOSZLAI, N. - SIROKMANY, G. - GEISZT, M. Measuring peroxidasin activity in live cells using bromide addition for signal amplification. In REDOX BIOLOGY. ISSN 2213-2317, AUG 2022, vol. 54. Dostupné na: https://doi.org/10.1016/j.redox.2022.102385, Registrované v: WOS
6. [1.1] SIDDIQUI, M.M. - NAGARGOJE, A.A. - AKOLKAR, S.V. - SANGSHETTI, J.N. - KHEDKAR, V.M. - PISAL, P.M. - SHINGATE, B.B. [HDBU][HSO4]-catalyzed facile synthesis of new 1,2,3-triazole-tethered 2,3-dihydroquinazolin-4[1H]-one derivatives and their DPPH radical scavenging activity. In RESEARCH ON CHEMICAL INTERMEDIATES. ISSN 0922-6168, MAR 2022, vol. 48, no. 3, p. 1199-1225. Dostupné na: https://doi.org/10.1007/s11164-021-04639-9, Registrované v: WOS
7. [1.1] VALADEZ-COSMES, P. - RAFTOPOULOU, S. - MIHALIC, Z.N. - MARSCHE, G. - KARGL, J. Myeloperoxidase: Growing importance in cancer pathogenesis and potential drug target. In PHARMACOLOGY & THERAPEUTICS. ISSN 0163-7258, AUG 2022, vol. 236. Dostupné na: https://doi.org/10.1016/j.pharmthera.2021.108052, Registrované v: WOS
8. [1.2] NAUSEEF, William M. Biosynthesis of Mammalian Heme Proteins, Peroxidases, and NADPH Oxidases. In Mammalian Heme Peroxidases: Diverse Roles in Health and Disease, 2021-01-01, pp. 21-40. Dostupné na: https://doi.org/10.1201/9781003212287-3, Registrované v: SCOPUS
9. [1.2] SIROKMÁNY, Gábor - KOVÁCS, Hajnal A. - GEISZT, Miklós. Peroxidasin: Structure and Function. In Mammalian Heme Peroxidases: Diverse Roles in Health and Disease, 2021-01-01, pp. 41-50. Dostupné na: https://doi.org/10.1201/9781003212287-4, Registrované v: SCOPUS

ADCA373 ZÁMOCKÝ, Marcel - FURTMULLER, P.G. - OBINGER, C. Evolution of catalases from bacteria to humans. In Antioxidants & Redox Signaling, 2008, vol. 10, p. 1527-1547. (2007: 5.484 - IF, Q1 - JCR, 2.690 - SJR, Q1 - SJR, karentované - CCC). (2008 - Current Contents). ISSN 1523-0864. Dostupné na: https://doi.org/10.1089/ars.2008.2046

Citácie:

1. [1.1] CHMELOVA, L. - BIANCHI, C. - ALBANAZ, A.T.S. - REZNAROVA, J. - WHEELER, R. - KOSTYGOV, A.Y. - KRAEVA, N. - YURCHENKO, V. Comparative Analysis of Three Trypanosomatid Catalases of Different Origin. In ANTIOXIDANTS. JAN 2022, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/antiox11010046, Registrované v: WOS
2. [1.1] CHRISTOFORO, C. - FLEMING, B. - ZEITLER, M. - HAWS, H. - SMITH, A.M. Metal-binding proteins and cross-linking in the defensive glue of the slug Arion subfuscus. In JOURNAL OF THE ROYAL SOCIETY INTERFACE. ISSN 1742-5689, NOV 23 2022, vol. 19, no. 196. Dostupné na: https://doi.org/10.1098/rsif.2022.0611, Registrované v: WOS
3. [1.1] CUI, L. - ZHENG, F.Y. - ZHANG, D.D. - LI, C.X. - LI, M. - YE, J. - ZHANG, Y.Y. - WANG, T.T. - OUYANG, B. - HONG, Z.L. - YE, Z.B. - ZHANG, J.H. Tomato methionine sulfoxide reductase B2 functions in drought tolerance by promoting ROS scavenging and chlorophyll accumulation through interaction with Catalase 2 and RBCS3B. In PLANT SCIENCE. ISSN 0168-9452, MAY 2022, vol. 318. Dostupné na: https://doi.org/10.1016/j.plantsci.2022.111206, Registrované v: WOS
4. [1.1] DORNBURG, A. - MALLIK, R. - WANG, Z. - BERNAL, M.A. - THOMPSON, B. - BRUFORD, E.A. - NEBERT, D.W. - VASILIOU, V. - YOHE, L.R. - YODER, J.A. - TOWNSEND, J.P. Placing human gene families into their evolutionary context. In HUMAN GENOMICS. ISSN 1473-9542, NOV 11 2022, vol. 16, no. 1. Dostupné na: https://doi.org/10.1186/s40246-022-00429-5, Registrované v: WOS
5. [1.1] GAUR, M. - DEY, S. - SAHU, A. - DIXIT, S. - SARATHBABU, S. - ZOTHANZAMA, J. - SAHOO, R.K. - BEHERA, D.U. - MONIKA - SUBUDHI, E. Characterization and Comparative Genomic Analysis of a Highly Colistin-Resistant Chryseobacterium gallinarum: a Rare, Uncommon Pathogen. In FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. ISSN 2235-2988, JUL 14 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fcimb.2022.933006, Registrované v: WOS
6. [1.1] HE, L.G.N. - DUAN, Z.Y. - YU, M.Q. - QI, S.H. - WANG, Y. - LOU, H.Q. - HE, Q. HDA-2-Containing Complex Is Required for Activation of Catalase-3 Expression in Neurospora crassa. In MBIO. ISSN 2150-7511, AUG 30 2022, vol. 13, no. 4. Dostupné na: https://doi.org/10.1128/mbio.01351-22, Registrované v: WOS
7. [1.1] JENA, A.B. - RATH, S. - SUBUDHI, U. - DANDAPAT, J. Molecular interaction of benzo-a-pyrene inhibits the catalytic activity of catalase: Insights from biophysical and

computational studies. In JOURNAL OF MOLECULAR STRUCTURE. ISSN 0022-2860, OCT 5 2022, vol. 1265. Dostupné na: https://doi.org/10.1016/j.molstruc.2022.133494, Registrované v: WOS

8. [1.1] JEW, K.M. - LE, V.T.B. - AMARAL, K. - TA, A. - MAY, N.N.M. - LAW, M. - ADELSTEIN, N. - KUHN, M.L. Investigation of the Importance of Protein 3D Structure for Assessing Conservation of Lysine Acetylation Sites in Protein Homologs. In FRONTIERS IN MICROBIOLOGY. JAN 31 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fmicb.2021.805181, Registrované v: WOS

9. [1.1] LEI, H.Q. - LI, D.M. - WOO, M.W. - ZENG, X.A. - HAN, Z. - WANG, R.Y. The antihyperglycemic effect of pulsed electric field-extracted polysaccharide of Kaempferia elegans officinale on streptozotocin induced diabetic mice. In FRONTIERS IN NUTRITION. ISSN 2296-861X, DEC 7 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fnut.2022.1053811, Registrované v: WOS

10. [1.1] LU, X.H. - ZHOU, X.Q. - QIU, W. - WANG, Z.Y. - CHENG, H.J. - ZHANG, H.C. - YU, J.X. - WANG, D. - MA, J. Singlet oxygen involved electrochemical disinfection by anodic oxidation of H2O2 in the presence of Cl⁻. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, OCT 15 2022, vol. 446, 1. Dostupné na: https://doi.org/10.1016/j.cej.2022.136871, Registrované v: WOS

11. [1.1] MATTILA, H. - ÖSTERMAN-UDD, J. - MALI, T. - LUNDELL, T. Basidiomycota Fungi and ROS: Genomic Perspective on Key Enzymes Involved in Generation and Mitigation of Reactive Oxygen Species. In FRONTIERS IN FUNGAL BIOLOGY. MAR 23 2022, vol. 3. Dostupné na: https://doi.org/10.3389/ffunb.2022.837605, Registrované v: WOS

12. [1.1] MCCAIN, J.S.P. - BERTRAND, E.M. Phytoplankton antioxidant systems and their contributions to cellular elemental stoichiometry. In LIMNOLOGY AND OCEANOGRAPHY LETTERS. APR 2022, vol. 7, no. 2, p. 96-111. Dostupné na: https://doi.org/10.1002/lol2.10233, Registrované v: WOS

13. [1.1] MELICHER, P. - DVORáK, P. - SAMAJ, J. - TAKáC, T. Protein-protein interactions in plant antioxidant defense. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, DEC 14 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fpls.2022.1035573, Registrované v: WOS

14. [1.1] MUñOZ-VILLAGRáN, C. - GROSSOLLI-GáLVEZ, J. - ACEVEDO-ARBUNIC, J. - VALENZUELA, X. - FERRER, A. - DíEZ, B. - LEVICáN, G. Characterization and genomic analysis of two novel psychrotolerant Acidithiobacillus ferrooxidans strains from polar and subpolar environments. In FRONTIERS IN MICROBIOLOGY. AUG 24 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.960324, Registrované v: WOS

15. [1.1] NEIRA, G. - VERGARA, E. - CORTEZ, D. - HOLMES, D.S. A Large-Scale Multiple Genome Comparison of Acidophilic Archaea (pH ≤ 5.0) Extends Our Understanding of Oxidative Stress Responses in Polyextreme Environments. In ANTIOXIDANTS. JAN 2022, vol. 11, no. 1. Dostupné na: https://doi.org/10.3390/antiox11010059, Registrované v: WOS

16. [1.1] PAN, L.Z. - LUO, Y. - WANG, J. - LI, X.M. - TANG, B.Q. - YANG, H.P. - HOU, X.L. - LIU, F. - ZOU, X.X. Evolution and functional diversification of catalase genes in the green lineage. In BMC GENOMICS. ISSN 1471-2164, JUN 1 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12864-022-08621-6, Registrované v: WOS

17. [1.1] ROJAS, R.O. - PALMA, G. - AJILA, W.V. - DURAZNO, R.C. Cysteamine and its applications in the in vitro production of embryos. In REVISTA DE INVESTIGACIONES VETERINARIAS DEL PERU. ISSN 1682-3419, JAN-FEB 2022, vol. 33, no. 1. Dostupné na: https://doi.org/10.15381/rivep.v33i1.20134, Registrované v: WOS

18. [1.1] SAMPARA, P. - LUO, Y.Q. - LIN, X. - ZIELS, R.M. Integrating Genome-Resolved Metagenomics with Trait-Based Process Modeling to Determine Biokinetics of Distinct Nitrifying Communities within Activated Sludge. In ENVIRONMENTAL SCIENCE & TECHNOLOGY. ISSN 0013-936X, AUG 16 2022, vol. 56, no. 16, p. 11670-11682. Dostupné na: https://doi.org/10.1021/acs.est.2c02081, Registrované v: WOS

19. [1.1] SCHLOSSER, C.S. - BROCCHINI, S. - WILLIAMS, G.R. Stable Dried Catalase Particles Prepared by Electrospraying. In NANOMATERIALS. JUL 2022, vol. 12, no. 14. Dostupné na: https://doi.org/10.3390/nano12142484, Registrované v: WOS

20. [1.1] SINHA, N. - PATRA, S.K. - SARKAR, T.S. - GHOSH, S. Secretome analysis identified extracellular superoxide dismutase and catalase of Macrophomina phaseolina. In ARCHIVES OF MICROBIOLOGY. ISSN 0302-8933, JAN 2022, vol. 204, no. 1. Dostupné na: https://doi.org/10.1007/s00203-021-02631-w, Registrované v: WOS

21. [1.1] SPEIJER, D. Molecular characteristics of the multi-functional FAO enzyme ACAD9 illustrate the importance of FADH2/NADH ratios for mitochondrial ROS formation. In BIOESSAYS. ISSN 0265-9247, AUG 2022, vol. 44, no. 8. Dostupné na: https://doi.org/10.1002/bies.202200056, Registrované v: WOS

22. [1.1] STOYANCHEVA, G. - DISHLIYSKA, V. - MITEVA-STALEVA, J. - KOSTADINOVA, N. -

ABRASHEV, R. - ANGELOVA, M. - KRUMOVA, E. Sequencing and gene expression analysis of catalase genes in Antarctic fungal strain Penicillium griseofulvum P29. In POLAR BIOLOGY. ISSN 0722-4060, MAR 2022, vol. 45, no. 3, p. 437-447. Dostupné na: https://doi.org/10.1007/s00300-021-03001-4, Registrované v: WOS

23. [1.1] SUTHERLAND, K.M. - HEMINGWAY, J.D. - JOHNSTON, D.T. The influence of reactive oxygen species on "respiration" isotope effects. In GEOCHIMICA ET COSMOCHIMICA ACTA. ISSN 0016-7037, MAY 1 2022, vol. 324, p. 86-101. Dostupné na: https://doi.org/10.1016/j.gca.2022.02.033, Registrované v: WOS

24. [1.1] ZAGAR, A. - SIMCIC, T. - DAJCMAN, U. - MEGIA-PALMA, R. Parasitemia and elevation as predictors of hemoglobin concentration and antioxidant capacity in two sympatric lizards. In COMPARATIVE BIOCHEMISTRY AND PHYSIOLOGY A-MOLECULAR & INTEGRATIVE PHYSIOLOGY. ISSN 1095-6433, AUG 2022, vol. 270. Dostupné na: https://doi.org/10.1016/j.cbpa.2022.111233, Registrované v: WOS

25. [1.1] ZHANG, K.W. - HU, H. - CHEN, G. Mechanisms of Microbial Disinfectant Resistance. In PROGRESS IN BIOCHEMISTRY AND BIOPHYSICS. ISSN 1000-3282, JAN 2022, vol. 49, no. 1, p. 34-47. Dostupné na: https://doi.org/10.16476/j.pibb.2021.0300, Registrované v: WOS

26. [1.1] ZHOU, T.T. - CHENG, B. - GAO, L.M. - REN, F.Y. - GUO, G.L. - WASSIE, T. - WU, X. Maternal catalase supplementation regulates fatty acid metabolism and antioxidant ability of lactating sows and their offspring. In FRONTIERS IN VETERINARY SCIENCE. NOV 23 2022, vol. 9. Dostupné na: https://doi.org/10.3389/fvets.2022.1014313, Registrované v: WOS

27. [1.2] BONAVITA, Raffaella - LAUKKANEN, Mikko O. Common Signal Transduction Molecules Activated by Bacterial Entry into a Host Cell and by Reactive Oxygen Species. In Antioxidants and Redox Signaling, 2021-02-20, 34, 6, pp. 486-503. ISSN 15230864. Dostupné na: https://doi.org/10.1089/ars.2019.7968, Registrované v: SCOPUS

28. [1.2] RUI, Lin - LIU, Hongbin - LIANG, Rui - WU, Xiaoqin. Resistance genes mediate differential resistance to pine defensive substances α-Pinene and Hinf2/infOinf2/inf in Bursaphelenchus xylophilus with different levels of virulence. In Journal of Forestry Research, 2021-08-01, 32, 4, pp. 1753-1762. ISSN 1007662X. Dostupné na: https://doi.org/10.1007/s11676-020-01182-y, Registrované v: SCOPUS

29. [1.2] SHARMA, Shashi Kant - SINGH, Devendra - PANDEY, Himanshu - JATAV, Raj Babar - SINGH, Virendra - PANDEY, Devendra. An Overview of Roles of Enzymatic and Nonenzymatic Antioxidants in Plant. In Antioxidant Defense in Plants: Molecular Basis of Regulation, 2022-01-01, pp. 1-13. Dostupné na: https://doi.org/10.1007/978-981-16-7981-0_1, Registrované v: SCOPUS

30. [1.2] SINGH, Pradyumna Kumar - DWIVEDI, Sanjay - CHAKRABARTY, Debasis - TRIPATHI, Rudra Deo - DUBEY, Sonali - SHRI, Manju. Biomarkers of arsenic stress in plants. In New Paradigms in Environmental Biomonitoring Using Plants, 2022-01-01, pp. 245-270. Dostupné na: https://doi.org/10.1016/B978-0-12-824351-0.00014-6, Registrované v: SCOPUS

ADCA374 ZÁMOCKÝ, Marcel - HALLBERG, M. - LUDWIG, R. - DIVNE, C. - HALTRICH, D. Ancestral gene fusion in cellobiose dehydrogenases reflects a specific evolution of GMC oxidoreductases in fungi. In Gene, 2004, vol. 338, p. 1-14. ISSN 0378-1119. Dostupné na: https://doi.org/10.1016/j.gene.2004.04.025

Citácie:

1. [1.1] SINGHANIA, R.R. - PATEL, A.K. - RAJ, T. - CHEN, C.W. - PONNUSAMY, V.K. - TAHIR, N. - KIM, S.H. - DONG, C.D. Lignin valorisation via enzymes: A sustainable approach. In FUEL. ISSN 0016-2361, MAR 1 2022, vol. 311. Dostupné na: https://doi.org/10.1016/j.fuel.2021.122608, Registrované v: WOS

2. [1.1] ZHANG, Y.F. - LI, Y.L. - ZHONG, X. - WANG, J.J. - ZHOU, L. - HAN, Y. - LI, D.D. - WANG, N. - HUANG, X.H. - ZHU, J. - YANG, Z.N. Mutation of glucose-methanol-choline oxidoreductase leads to thermosensitive genic male sterility in rice and Arabidopsis. In PLANT BIOTECHNOLOGY JOURNAL. ISSN 1467-7644, OCT 2022, vol. 20, no. 10, p. 2023-2035. Dostupné na: https://doi.org/10.1111/pbi.13886, Registrované v: WOS

ADCA375 ZÁMOCKÝ, Marcel - REGELSBERGER, G. - JAKOPITSCH, C. - OBINGER, C. The molecular peculiarities of catalase-peroxidases. In FEBS Letters : Federation of European Biochemical Societies Letters for the Rapid Publication of Short Reports in Biochemistry, Biophysics and Molecular Biology, 2001, vol. 492, p. 177-182. ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/S0014-5793(01)02237-2

Citácie:

1. [1.1] CALIS, Z. - DASDELEN, D. - BALTACI, A.K. - MOGULKOC, R. Naringenin Prevents Inflammation, Apoptosis, and DNA Damage in Potassium Oxonate-Induced Hyperuricemia in Rat Liver Tissue: Roles of Cytochrome C, NF-κB, Caspase-3, and 8-Hydroxydeoxyguanosine. In METABOLIC SYNDROME AND RELATED DISORDERS. ISSN 1540-4196, OCT 1 2022, vol. 20, no. 8, p. 473-479. Dostupné na: https://doi.org/10.1089/met.2022.0028, Registrované v: WOS

2. [1.1] PRUSTY, S. - SAHOO, R.K. - NAYAK, S. - POOSAPATI, S. - SWAIN, D.M. Proteomic and Genomic Studies of Micronutrient Deficiency and Toxicity in Plants. In PLANTS-BASEL. SEP 2022, vol. 11, no. 18. Dostupné na: https://doi.org/10.3390/plants11182424, Registrované v: WOS

ADCA376 ZÁMOCKÝ, Marcel - GASSELHUBER, B. - FURTMULLER, P.G. - OBINGER, C. Turning points in the evolution of peroxidase–catalase superfamily: molecular phylogeny of hybrid heme peroxidases. In Cellular and Molecular Life Sciences, 2014, vol. 71, p. 4681–4696. (2013: 5.856 - IF, Q1 - JCR, 3.301 - SJR, Q1 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 1420-682X. Dostupné na: https://doi.org/10.1007/s00018-014-1643-y

Citácie:

1. [1.1] CARDOSO, A.A.D. - GOMES, F.T.D. - ANTONIO, J.R.R. - GUILHERME, L.R.G. - LIU, J.P. - LI, L. - SILVA, M.L.D. Sulfate availability and soil selenate adsorption alleviate selenium toxicity in rice plants. In ENVIRONMENTAL AND EXPERIMENTAL BOTANY. ISSN 0098-8472, SEP 2022, vol. 201. Dostupné na: https://doi.org/10.1016/j.envexpbot.2022.104971, Registrované v: WOS

2. [1.1] MATTILA, H. - ÖSTERMAN-UDD, J. - MALI, T. - LUNDELL, T. Basidiomycota Fungi and ROS: Genomic Perspective on Key Enzymes Involved in Generation and Mitigation of Reactive Oxygen Species. In FRONTIERS IN FUNGAL BIOLOGY. MAR 23 2022, vol. 3. Dostupné na: https://doi.org/10.3389/ffunb.2022.837605, Registrované v: WOS

3. [1.2] KHATIWADA, Janak Raj - SHRESTHA, Sarita - SHARMA, Hem Kanta - QIN, Wensheng. Bioconversion of Hemicelluloses into Hydrogen. In Advances in Science, Technology and Innovation, 2021-01-01, pp. 267-280. ISSN 25228714. Dostupné na: https://doi.org/10.1007/978-3-030-61837-7_16, Registrované v: SCOPUS

4. [1.2] KULSHRESHTHA, Akanksha. Sustainable energy generation from municipal solid waste. In Waste-to-Energy Approaches Towards Zero Waste: Interdisciplinary Methods of Controlling Waste, 2022-01-01, pp. 315-342. Dostupné na: https://doi.org/10.1016/B978-0-323-85387-3.00005-7, Registrované v: SCOPUS

ADCA377 ZELINKOVÁ, E. - PAULÍČEK, M. - ZELINKA, Ján. Modification methylase M.Sau32391 from Streptomyces aureqfaciens 3239. In FEBS Letters, 1990, vol. 271, p. 147-148. ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/0014-5793(90)80393-W

Citácie:

1. [1.1] O';BROWN, Z.K. - GREER, E.L. N6-methyladenine: A Rare and Dynamic DNA Mark. In DNA METHYLTRANSFERASES - ROLE AND FUNCTION, 2 EDITION. ISSN 0065-2598, 2022, vol. 1389, p. 177-210. Dostupné na: https://doi.org/10.1007/978-3-031-11454-0_8, Registrované v: WOS

ADCA378 ZHANG, X. - LEEMHUIS, H. - JANEČEK, Štefan - MARTINOVIČOVÁ, M. - PIJNING, T. - VAN DER MAAREL, M.J. Identification of thermotoga maritima MSB8 GH57 α-amylase AmyC as a glycogen-branching enzyme with high hydrolytic activity. In Applied Microbiology and Biotechnology, 2019, vol. 103, p. 6141–6151. (2018: 3.670 - IF, Q2 - JCR, 1.127 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-019-09938-1

Citácie:

1. [1.1] BAN, X.F. - XI, S.X. - JIANG, H.M. - GU, Z.B. - LI, C.M. - CHENG, L. - HONG, Y. - LI, Z.F. The amino acid on the top of the active groove allosterically modulates product specificity of the 1,4-alpha-glucan branching enzyme. In FOOD CHEMISTRY. ISSN 0308-8146, AUG 1 2022, vol. 384., Registrované v: WOS

2. [1.2] LAEMTHONG, Tunyaboon - LEWIS, April M. - CROSBY, James R. - BING, Ryan G. - SCHNEIDER, William H. - WILLARD, Daniel J. - COUNTS, James A. - KELLY, Robert M. Enzymes from extremely thermophilic bacteria and archaea: current status and future prospects. In Extremozymes and their Industrial Applications, 2022-01-01, pp. 41-84. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00004-6, Registrované v: SCOPUS

ADCA379 ZWEERS, J.C. - BARÁK, Imrich - BECHER, D. - DRIESSEN, A. - HECKER, M. - KONTINEN, V.P. - SALLER, M.J. - VAVROVÁ, Ľudmila - VAN DIJL, J.M. Towards the development of Bacillus subtilis as a cell factory for membrane proteins and protein complexes. In Microbial Cell Factories, 2008, vol. 7, p. 10. (2007: 3.360 - IF, Q1 - JCR, 1.151 - SJR, Q1 - SJR). ISSN 1475-2859. Dostupné na: https://doi.org/10.1186/1475-2859-7-10

Citácie:

1. [1.1] ARUN, K.B. - SINDHU, R. - ALEX, D. - BINOD, P. - PUGHAZHENDI, A. - JOSEPH, T.C. - PANDEY, A. - KUDDUS, M. - PILLAI, S. - EMMANUAL, S. - AWASTHI, M.K. - MADHAVAN, A. Bacterial bioactive metabolites as therapeutic agents: From production to action. In SUSTAINABLE CHEMISTRY AND PHARMACY. JUN 2022, vol. 27., Registrované v: WOS

2. [1.1] DEO, S. - TURTON, L.K. - KAINTH, T. - KUMAR, A. - WIEDEN, H.J. Strategies for improving antimicrobial peptide production. In BIOTECHNOLOGY ADVANCES. ISSN

0734-9750, OCT 2022, vol. 59., Registrované v: WOS
3. [1.1] LASTOCHKINA, O. - PUSENKOVA, L. - GARSHINA, D. - KASNAK, C. - PALAMUTOGLU, R. - SHPIRNAYA, I. - MARDANSHIN, I. - MAKSIMOV, I. Improving the Biocontrol Potential of Endophytic Bacteria Bacillus subtilis with Salicylic Acid against Phytophthora infestans-Caused Postharvest Potato Tuber Late Blight and Impact on Stored Tubers Quality. In HORTICULTURAE. FEB 2022, vol. 8, no. 2., Registrované v: WOS
4. [1.1] LIU, J.Q. - DAI, G.Z. - ZHANG, Y.M. - BIAN, X.Y. Microbial chassis engineering drives heterologous production of complex secondary metabolites. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, OCT 2022, vol. 59., Registrované v: WOS
5. [1.1] SONG, Yafeng - HE, Siqi - JOPKIEWICZ, Anita - SETROIKROMO, Rita - VAN MERKERK, Ronald - QUAX, Wim J. Development and application of CRISPR-based genetic tools in Bacillus species and Bacillus phages. In JOURNAL OF APPLIED MICROBIOLOGY, 2022, vol. 133, no. 4, pp. 2280-2298. ISSN 1364-5072. Dostupné na: https://doi.org/10.1111/jam.15704, Registrované v: WOS
6. [1.1] WAN, H.H. - OUYANG, X.Y. - YANG, T. - YE, T.Y. - JIN, M.F. - HUANG, J. A 4-alpha-Glucanotransferase from Thermus thermophilus HB8: Secretory Expression and Characterization. In CURRENT MICROBIOLOGY. ISSN 0343-8651, JUL 2022, vol. 79, no. 7., Registrované v: WOS
7. [1.2] APPELBAUM, Mathis - SCHWEDER, Thomas. Metabolic Engineering of Bacillus New Tools, Strains, and Concepts. In Metabolic Engineering: Concepts and Applications: Volume 13a and 13b, 2021-01-01, 13, pp. 469-518. Dostupné na: https://doi.org/10.1002/9783527823468.ch13, Registrované v: SCOPUS
8. [1.2] AWARE, Chetan - JADHAVA, Jyoti. Bioprospecting potential of microbes for the therapeutic application. In Bioprospecting of Microbial Diversity: Challenges and Applications in Biochemical Industry, Agriculture and Environment Protection, 2022-01-01, pp. 223-255. Dostupné na: https://doi.org/10.1016/B978-0-323-90958-7.00023-6, Registrované v: SCOPUS
9. [1.2] DI CESARE, Margot - DIAGNE, Aissatou Maty - BOURGEY, Benjamin - JAULT, Jean Michel - ORELLE, Cédric. Functional Overexpression of Membrane Proteins in E. coli: The Good, the Bad, and the Ugly. In Methods in Molecular Biology, 2022-01-01, 2507, pp. 41-58. ISSN 10643745. Dostupné na: https://doi.org/10.1007/978-1-0716-2368-8_3, Registrované v: SCOPUS
10. [1.2] FERRER-MIRALLES, Neus - SACCARDO, Paolo - CORCHERO, José Luis - GARCIA-FRUITÓS, Elena. Recombinant Protein Production and Purification of Insoluble Proteins. In Methods in Molecular Biology, 2022-01-01, 2406, pp. 1-31. ISSN 10643745. Dostupné na: https://doi.org/10.1007/978-1-0716-1859-2_1, Registrované v: SCOPUS
11. [1.2] HUANG, Ziyang - LV, Xueqin - SUN, Guoyun - MAO, Xinzhu - LU, Wei - LIU, Yanfeng - LI, Jianghua - DU, Guocheng - LIU, Long. Chitin deacetylase: from molecular structure to practical applications. In Systems Microbiology and Biomanufacturing, 2022-04-01, 2, 2, pp. 271-284. ISSN 26627655. Dostupné na: https://doi.org/10.1007/s43393-022-00077-9, Registrované v: SCOPUS
12. [1.2] XIE, Hao - MUENKE, Cornelia - SOMMER, Manuel - BUSCHMANN, Sabine - MICHEL, Hartmut. Production of Membrane Proteins in Pseudomonas stutzeri. In Methods in Molecular Biology, 2022-01-01, 2507, pp. 91-110. ISSN 10643745. Dostupné na: https://doi.org/10.1007/978-1-0716-2368-8_6, Registrované v: SCOPUS

ADCA380 ZWIRZITZ, A. - REITER, M. - ŠKRABANA, Rostislav - OHRADANOVA-REPIC, A. - MAJDIC, O. - GUTEKOVÁ, Marianna - CEHLÁR, Ondrej - PETROVČÍKOVÁ, Eva - KUTEJOVÁ, Eva - STANEK, G. - STOCKINGER, H. - LEKSA, Vladimír**. Lactoferrin is a natural inhibitor of plasminogen activation. In Journal of Biological Chemistry, 2018, vol. 293, p. 8600-8613. (2017: 4.011 - IF, Q2 - JCR, 2.672 - SJR, Q1 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0021-9258. Dostupné na: https://doi.org/10.1074/jbc.RA118.003145

Citácie:
1. [1.1] BOLAT, E. - EKER, F. - KAPLAN, M. - DUMAN, H. - ARSLAN, A. - SARITAS, S. - SAHUTOGLU, A.S. - KARAV, S. Lactoferrin for COVID-19 prevention, treatment, and recovery. In FRONTIERS IN NUTRITION. ISSN 2296-861X, NOV 7 2022, vol. 9., Registrované v: WOS
2. [1.1] GIRIBALDI, M. - NEBBIA, S. - BRIARD-BION, V. - JARDIN, J. - PEILA, C. - COSCIA, A. - DUPONT, D. - CAVALLARIN, L. - DEGLAIRE, A. Simulated dynamic digestion reveals different peptide releases from human milk processed by means of holder or high temperature-short time pasteurization. In FOOD CHEMISTRY. ISSN 0308-8146, FEB 1 2022, vol. 369. Dostupné na: https://doi.org/10.1016/j.foodchem.2021.130998, Registrované v: WOS
3. [1.1] MORELLO, R. - DE ROSE, C. - CARDINALI, S. - VALENTINI, P. - BUONSENSO, D. Lactoferrin as Possible Treatment for Chronic Gastrointestinal Symptoms in Children with Long COVID: Case Series and Literature Review. In CHILDREN-BASEL. OCT 2022, vol. 9, no. 10., Registrované v: WOS

4. [1.1] WIDGEROW, A.D. - WANG, J.V. - ZIEGLER, M.E. - FABI, S.G. - GARRUTO, J.A. - ROBINSON, D.M. - BELL, M. Advances in Pigmentation Management: A Multipronged Approach. In JOURNAL OF DRUGS IN DERMATOLOGY. ISSN 1545-9616, NOV 2022, vol. 21, no. 11, p. 1206-1220., Registrované v: WOS

ADCB Vedecké práce v zahraničných karentovaných časopisoch – neimpaktovaných

ADCB01 TRNČÍKOVÁ, T. - HRUŠKOVÁ, V. - ORAVCOVA, K. - PANGALLO, Domenico - KACLIKOVA, E. Rapid and sensitive detection of staphylococcus aureus in food using selective enrichment and real-time PCR targeting a new gene marker. In Food Analytical Methods, 2009, vol. 2, p. 241-250. (2008: Q4 - JCR, karentované - CCC). (2009 - Current Contents). ISSN 1936-9751. Dostupné na: https://doi.org/10.1007/s12161-008-9056-x

Citácie:

1. [1.1] XUE, Jing-Wen - WANG, Rui - YANG, Jian-Yu - WANG, Lu-Xia - CAO, Ying - LI, Hui-Da - YANG, Ting - WANG, Jian-Hua. Sensitive plasmonic ELISA assay based on butyrylcholinesterase catalyzed hydrolysis for the detection of Staphylococcus aureus. In SENSORS AND ACTUATORS B-CHEMICAL, 2022, vol. 365, no., pp. Dostupné na: https://doi.org/10.1016/j.snb.2022.131948, Registrované v: WOS

2. [1.1] ZHAO, Huimin - ZHENG, Dawei - WANG, Huiqin - LIN, Taifeng - LIU, Wei - WANG, Xiaoli - LU, Wenjing - LIU, Mengjia - LIU, Wenbo - ZHANG, Yumiao - LIU, Mengdong - ZHANG, Ping. In Situ Collection and Rapid Detection of Pathogenic Bacteria Using a Flexible SERS Platform Combined with a Portable Raman Spectrometer. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 2022, vol. 23, no. 13, pp. Dostupné na: https://doi.org/10.3390/ijms23137340, Registrované v: WOS

3. [1.2] TRUONG, Phuoc Long. Fast Detection of Staphylococcus aureus Using DNA Aptamer and Silver Nanoparticles. In IFMBE Proceedings, 2022-01-01, 85, pp. 361-369. ISSN 16800737. Dostupné na: https://doi.org/10.1007/978-3-030-75506-5_29, Registrované v: SCOPUS

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - KALÁSZOVÁ, V. - KISOVÁ, Zuzana - PANGALLO, Domenico**. Essential oils against multidrug resistant gram-negative bacteria. In Biologia, 2018, vol. 73, p. 803–808. (2017: 0.696 - IF, Q4 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-018-0090-x

Citácie:

1. [1.1] EDAN, A.I. - RAGHAB, Y.M. - IBRAHIM, L.D. - AHMED, M.M. Antibacterial And Synergistic Effect Of Medicinal Herbs As Potential Activity Against Antibiotic Resistant-Bacteria : A New Strategy For Control Or Reducing Antibiotic Resistant Bacteria. In JOURNAL OF PHARMACEUTICAL NEGATIVE RESULTS. ISSN 0976-9234, 2022, vol. 13, 2, p. 261-270. Dostupné na: https://doi.org/10.47750/pnr.2022.13.S02.37, Registrované v: WOS

2. [1.1] LAKTIB, A. - NAYME, K. - EL HAMDAOUI, A. - TIMINOUNI, M. - HASSI, M. - ALLA, A.A. - MSANDA, F. - BOUROUACHE, M. - EL YAAGOUBI, M. - MIMOUNI, R. - BIHADASSEN, B. - HAMADI, F. Antibacterial Activity of Lavandula mairei Humbert Essential Oil Against Carbapenem-resistant Acinetobacter baumannii. In MEDITERRANEAN JOURNAL OF INFECTION MICROBES AND ANTIMICROBIALS. ISSN 2147-673X, 2022, vol. 11. Dostupné na: https://doi.org/10.4274/mjima.galenos.2021.2021.3, Registrované v: WOS

3. [1.1] TANDIROGANG, N. - ANITASARI, S. - ARUNG, E.T. - PARAMITA, S. - SHEN, Y.K. Evaluations of Antibacterial Properties of Zingiber purpureum Essential Oil Against 13 Different Gram-positive and Gram-negative Bacteria. In INDONESIAN BIOMEDICAL JOURNAL. ISSN 2355-9179, SEP 2022, vol. 14, no. 3, p. 303-308. Dostupné na: https://doi.org/10.18585/inabj.v14i3.1967, Registrované v: WOS

4. [1.1] VAN, L.T. - HAGIU, I. - POPOVICI, A. - MARINESCU, F. - GHEORGHE, I. - CURUTIU, C. - DITU, L.M. - HOLBAN, A.M. - SESAN, T.E. - LAZAR, V. Antimicrobial Efficiency of Some Essential Oils in Antibiotic-Resistant Pseudomonas aeruginosa Isolates. In PLANTS-BASEL. AUG 2022, vol. 11, no. 15. Dostupné na: https://doi.org/10.3390/plants11152003, Registrované v: WOS

5. [1.2] NGASOTTER, Soibam - MUKHERJEE, Susmita - SINGH, Soibam Khogen - BHARTI, Deeksha - HAQUE, Ramjanul - VARSHNEY, Shubham - NANDA, Chinmay - WAIKHOM, David - DEVI, Manoharmayum Shaya - SINGH, Asem Sanjit. Prevalence, virulence, and antibiotic resistance of vibrio parahaemolyticus from seafood and its environment: An updated review. In Mediterranean Journal of Infection, Microbes and Antimicrobials, 2022-01-01, 11, pp. Dostupné na: https://doi.org/10.4274/mjima.galenos.2021.2021.3, Registrované v: SCOPUS

ADDA02 ČAPLOVÁ, Z. - PANGALLO, Domenico** - KRAKOVÁ, Lucia - PUŠKÁROVÁ, Andrea - DRAHOVSKÁ, H. - BUČKOVÁ, Mária - KOREŇOVÁ, J. - KUCHTA, T. Detection of genes prtP, pepN, pepX and bcaT involved in formation. In Journal of Food and Nutrition Research, 2018, vol. 57, p. 195–200. (2017: 0.687 - IF, Q4 - JCR, 0.313 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 1336-8672.

Citácie:

1. [1.1] STEFANIKOVA, J. - ARVAY, J. - KUNOVA, S. - KOWALCZEWSKI, P.L. - KACANIOVA, M. Aroma profile and lactic acid bacteria characteristic of traditional Slovak cheese "May bryndza". In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, OCT 2022, vol. 28, no. 7, p. 580-591., Registrované v: WOS

ADDA03 HARICHOVÁ, Janka - KARELOVÁ, Edita - PANGALLO, Domenico - FERIANC, Peter. Structure analysis of bacterial community and their heavy-metal resistance determinants in the heavy-metal-contaminated soil sample. In Biologia, 2012, vol. 67, p. 1038-1048. (2011: 0.557 - IF, Q4 - JCR, 0.256 - SJR, Q3 - SJR, karentované - CCC). (2012 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-012-0123-9

Citácie:

1. [1.1] AO, L. - ZHAO, M.C. - LI, X. - SUN, G.Y. Different Urban Forest Tree Species Affect the Assembly of the Soil Bacterial and Fungal Community. In MICROBIAL ECOLOGY. ISSN 0095-3628, FEB 2022, vol. 83, no. 2, p. 447-458., Registrované v: WOS

2. [1.1] JAROSLAWIECKA, A.K. - PIOTROWSKA-SEGET, Z. The Effect of Heavy Metals on Microbial Communities in Industrial Soil in the Area of Piekary Slaskie and Bukowno (Poland). In MICROBIOLOGY RESEARCH. SEP 2022, vol. 13, no. 3, p. 626-642., Registrované v: WOS

3. [1.1] LIU, H.X. - YANG, Y.J. - YANG, Y.Z. - ZHONG, X.B. - LV, J.L. Dynamics of fungal and bacterial communities in different types of soil ageing with different dosages of cadmium. In ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY. ISSN 0147-6513, SEP 1 2022, vol. 242., Registrované v: WOS

4. [1.1] ZHAO, W.Y. - DENG, J.B. - CHI, S.L. - WANG, W.Z. - XU, L.S. - HUANG, Q.Z. - ZHANG, Y.M. - YU, X.M. - XU, J. - CHEN, Y.C. - XU, W.H. Sustainability assessment of topsoil ecology in Chongqing, China based on the application of livestock and poultry manure. In JOURNAL OF CLEANER PRODUCTION. ISSN 0959-6526, JUL 15 2022, vol. 358., Registrované v: WOS

ADDA04 HORVÁTHOVÁ, Viera - JANEČEK, Štefan - ŠTURDÍK, Ernest. Amylolytic enzymes: their specificities, origins and properties. In Biologia : journal of the Slovak Academy of Sciences, 2000, vol. 55, p. 605-615. (1999: 0.220 - IF, karentované - CCC). (2000 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] SHEN, Nan - XU, Chenjie - ZHANG, Jingcheng - LIU, Kefang - LIU, Gaolei - HE, Shaofang - WANG, Lu - BIAN, Yinbing - XIAO, Yang. Molecular mechanism underlying cadmium tolerance differentiation in Lentinula edodes as revealed by mRNA and milRNA analyses. In JOURNAL OF HAZARDOUS MATERIALS, 2022, vol. 440, no., pp. ISSN 0304-3894. Dostupné na: https://doi.org/10.1016/j.jhazmat.2022.129841, Registrované v: WOS

2. [1.2] MARTÍNEZ-ESPINOSA, Rosa María - ALONSO, Micaela Giani - CABRERA, Lorena Simó - MARTÍNEZ, Guillermo - GALIANA, Carmen Pire. Industrial applications of enzymes from haloarchaea. In Extremozymes and their Industrial Applications, 2022-01-01, pp. 289-320. Dostupné na: https://doi.org/10.1016/B978-0-323-90274-8.00014-9, Registrované v: SCOPUS

ADDA05 HOSTINOVÁ, Eva. Amylolytic enzymes produced by the yeast Saccharomycopsis fibuligera. In Biologia : journal of the Slovak Academy of Science, 2002, vol. 57, p. 247-251. (2001: 0.208 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] METHNER, Yvonne - HUTZLER, Mathias - ZARNKOW, Martin - PROWALD, Alexandra - ENDRES, Frank - JACOB, Fritz. Investigation of Non-Saccharomyces Yeast Strains for Their Suitability for the Production of Non-Alcoholic Beers with Novel Flavor Profiles. In JOURNAL OF THE AMERICAN SOCIETY OF BREWING CHEMISTS, 2022, vol. 80, no. 4, pp. 341-355. ISSN 0361-0470. Dostupné na: https://doi.org/10.1080/03610470.2021.2012747, Registrované v: WOS

2. [1.1] METHNER, Yvonne - MAGALHAES, Frederico - RAIHOFER, Luis - ZARNKOW, Martin - JACOB, Fritz - HUTZLER, Mathias. Beer fermentation performance and sugar uptake of Saccharomycopsis fibuligera-A novel option for low-alcohol beer. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.1011155, Registrované v: WOS

ADDA06 HOSTINOVÁ, Eva - GAŠPERÍK, Juraj. Yeast glucoamylases: molecular-genetic and structural characterization. In Biologia : journal of the Slovak Academy of Science, 2010, vol. 65, p. 559-568. (2009: 0.617 - IF, Q4 - JCR, 0.289 - SJR, Q3 - SJR, karentované - CCC). (2010 - Current Contents).

ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-010-0077-8

Citácie:

1. [1.1] METHNER, Yvonne - MAGALHAES, Frederico - RAIHOFER, Luis - ZARNKOW, Martin - JACOB, Fritz - HUTZLER, Mathias. Beer fermentation performance and sugar uptake of Saccharomycopsis fibuligera-A novel option for low-alcohol beer. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.1011155, Registrované v: WOS

2. [1.2] MUTLU-INGOK, Aysegul - KAHVECI, Derya - KARBANCIOGLU-GULER, Funda - OZCELIK, Beraat. Applications of extremozymes in the food industry. In Microbial Extremozymes: Novel Sources and Industrial Applications, 2021-01-01, pp. 197-206. Dostupné na: https://doi.org/10.1016/B978-0-12-822945-3.00012-9, Registrované v: SCOPUS

ADDA07 CHOVANOVÁ, Katarína - SLÁDEKOVÁ, D. - KMEŤ, Vladimír - PROKSOVÁ, M. - HARICHOVÁ, Janka - PUŠKÁROVÁ, Andrea - POLEK, Bystrík - FERIANC, Peter. Identification and characterization of eight cadmium resistant bacterial isolates from a cadmium-contaminated sewage sludge. In Biologia : journal of the Slovak Academy of Science, 2004, vol. 59, p. 817-827. (2003: 0.183 - IF, karentované - CCC). (2004 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] ALLAFI, Faisal Aboelkasim - HOSSAIN, Md Sohrab - SHAAH, Marwan - LALUNG, Japarang - AB KADIR, Mohd Omar - AHMAD, Mardiana Idayu. Waterless sterilization and cleaning of sheep wool fiber using supercritical carbon dioxide. In TEXTILE RESEARCH JOURNAL, 2022, vol. 92, no. 5-6, pp. 835-850. ISSN 0040-5175. Dostupné na: https://doi.org/10.1177/00405175211042897, Registrované v: WOS

2. [1.1] UQAB, Baba - NAZIR, Ruqeya - GANAI, Bashir Ahmad - RAHI, Praveen. In vitro Sequestration of Molecular and Mass Spectra Characterized Metallophilic Cadmium Tolerant Bacteria for Sustainable Agriculture. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.845853, Registrované v: WOS

3. [1.2] MADHAVI, A. - SRINIVASULU, M. - CHANDRA, M. Subhosh - RANGASWAMY, V. Detoxification of heavy metals using marine metal resistant bacteria: A new method for the bioremediation of contaminated alkaline environments. In Innovations in Biotechnology for a Sustainable Future, 2021-10-23, pp. 297-332. Dostupné na: https://doi.org/10.1007/978-3-030-80108-3_15, Registrované v: SCOPUS

ADDA08 JANEČEK, Štefan - KUCHTOVÁ, Andrea - PETROVIČOVÁ, Soňa. A novel GH13 subfamily of α-amylases with a pair of tryptophans in the helix α3 of the catalytic TIM-barrel, the LPDlx signature in the conserved sequence region V and a conserved aromatic motif at the C-terminus. In Biologia, 2015, vol. 70, p. 1284-1294. (2014: 0.827 - IF, Q4 - JCR, 0.319 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.1515/biolog-2015-0165

Citácie:

1. [1.1] KIKANI, B.A. - SINGH, S.P. Amylases from thermophilic bacteria: structure and function relationship. In CRITICAL REVIEWS IN BIOTECHNOLOGY. ISSN 0738-8551, APR 3 2022, vol. 42, no. 3, p. 325-341. Dostupné na: https://doi.org/10.1080/07388551.2021.1940089, Registrované v: WOS

2. [1.1] KIKANI, B.A. - SUTHAR, S. - JOSHI, D. Nanomaterials: An Efficient Support to Immobilize Microbial α-Amylases for Improved Starch Hydrolysis. In STARCH-STARKE. ISSN 0038-9056, SEP 2022, vol. 74, no. 9-10. Dostupné na: https://doi.org/10.1002/star.202200093, Registrované v: WOS

3. [1.1] LEKAKARN, H. - BUNTERNGSOOK, B. - PAJONGPAKDEEKUL, N. - PRONGJIT, D. - CHAMPREDA, V. A novel low temperature active maltooligosaccharides-forming amylase from Bacillus koreensis HL12 as biocatalyst for maltooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.1007/s13205-022-03188-1, Registrované v: WOS

4. [1.2] MATPAN BEKLER, Fatma - GÜVEN, Kemal - GÜL GÜVEN, Reyhan. Purification and characterization of novel α-amylase from Anoxybacillus ayderensis FMB1. In Biocatalysis and Biotransformation, 2021-01-01, 39, 4, pp. 322-332. ISSN 10242422. Dostupné na: https://doi.org/10.1080/10242422.2020.1856097, Registrované v: SCOPUS

ADDA09 JANEČEK, Štefan. How many conserved sequence regions are there in the alpha-amylase family? In Biologia : journal of the Slovak Academy of Science, 2002, vol. 57, suppl. p. 29-41. (2001: 0.208 - IF, karentované - CCC). (2002 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] EKIZ, D.O. - COMLEKCIOGLU, U. - AYGAN, A. CLONING, SEQUENCING AND IN SILICO ANALYSIS OF AN AMYLASE OF STREPTOCOCCUS LUTETIENSIS RB4 ISOLATED FROM BOVINE RUMEN. In JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND FOOD SCIENCES. ISSN 1338-5178, DEC-JAN 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.55251/jmbfs.5940, Registrované v: WOS

2. [1.1] JI, H.Y. - LI, X.X. - JIANG, T. - FANG, Q. - BAI, Y.X. - LONG, J. - CHEN, L. - JIN, Z.Y. A novel amylolytic enzyme from Palaeococcus ferrophilus with malto-oligosaccharide forming ability belonging to subfamily GH13_20. In FOOD BIOSCIENCE. ISSN 2212-4292, FEB 2022, vol. 45. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101498, Registrované v: WOS

3. [1.1] WANG, M.X. - HU, H.Z. - ZHANG, B.Y. - ZHENG, Y. - WU, P. - LU, Z.H. - ZHANG, G.M. Discovery of a New Microbial Origin Cold-Active Neopullulanase Capable for Effective Conversion of Pullulan to Panose. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JUL 2022, vol. 23, no. 13. Dostupné na: https://doi.org/10.3390/ijms23136928, Registrované v: WOS

4. [1.1] YANG, W.K. - SHENG, L.F. - CHEN, S. - WANG, L. - SU, L.Q. - WU, J. Characterization of a new 4,6-α-glucanotransferase from Limosilactobacillus fermentum NCC 3057 with ability of synthesizing low molecular mass isomalto-/maltopolysaccharide. In FOOD BIOSCIENCE. ISSN 2212-4292, APR 2022, vol. 46. Dostupné na: https://doi.org/10.1016/j.fbio.2021.101514, Registrované v: WOS

5. [1.2] SAMANTA, Saptadip. Structural and Catalytical Features of Different Amylases and their Potential Applications. In Jordan Journal of Biological Sciences, 2022-06-01, 15, 2, pp. 311-337. ISSN 19956673. Dostupné na: https://doi.org/10.54319/jjbs/150220, Registrované v: SCOPUS

ADDA10 KÁČERIKOVÁ, Radka - GODOČÍKOVÁ, Jana - WANG, Z. - KUTEJOVÁ, Eva - RAUNSER, S. - FARKAŠOVSKÝ, Marian**. Modulation of septin higher-order structure by the Cdc28 protein kinase. In Biologia, 2018, vol. 73, p. 1025–1033. (2017: 0.696 - IF, Q4 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-018-0116-4

Citácie:

1. [1.1] IBANES, S. - EL-ALAOUI, F. - LAI-KEE-HIM, J. - CAZEVIEILLE, C. - HOH, F. - LYONNAIS, S. - BRON, P. - CIPELLETTI, L. - PICAS, L. - PIATTI, S. The Syp1/FCHo2 protein induces septin filament bundling through its intrinsically disordered domain. In CELL REPORTS. ISSN 2211-1247, DEC 6 2022, vol. 41, no. 10., Registrované v: WOS

ADDA11 KARELOVÁ, Edita - HARICHOVÁ, Janka - STOJNEV, T. - PANGALLO, Domenico - FERIANC, Peter. The isolation of heavy-metal resistant culturable bacteria and resistance determinants from a heavy-metal-contaminated site. In Biologia : journal of the Slovak Academy of Science, 2011, vol. 66, p. 18-26. (2010: 0.609 - IF, Q4 - JCR, 0.290 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-010-0145-0

Citácie:

1. [1.1] CHEN, X.L. - WANG, J. - PAN, C.Y. - FENG, L.S. - GUO, Q.W. - CHEN, S.L. - XIE, S.G. Metagenomic analysis reveals the response of microbial community in river sediment to accidental antimony contamination. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, MAR 20 2022, vol. 813. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.152484, Registrované v: WOS

2. [1.1] HEYDARI, A. - KIM, N.D. - HORSWELL, J. - GIELEN, G. - SIGGINS, A. - TAYLOR, M. - BROMHEAD, C. - PALMER, B.R. Co-Selection of Heavy Metal and Antibiotic Resistance in Soil Bacteria from Agricultural Soils in New Zealand. In SUSTAINABILITY. FEB 2022, vol. 14, no. 3. Dostupné na: https://doi.org/10.3390/su14031790, Registrované v: WOS

3. [1.1] JAROSLAWIECKA, A.K. - PIOTROWSKA-SEGET, Z. The Effect of Heavy Metals on Microbial Communities in Industrial Soil in the Area of Piekary Slaskie and Bukowno (Poland). In MICROBIOLOGY RESEARCH. SEP 2022, vol. 13, no. 3, p. 626-642. Dostupné na: https://doi.org/10.3390/microbiolres13030045, Registrované v: WOS

4. [1.1] QI, R. - XUE, N.N. - WANG, S.Z. - ZHOU, X.B. - ZHAO, L. - SONG, W.J. - YANG, Y.Y. Heavy metal(loid)s shape the soil bacterial community and functional genes of desert grassland in a gold mining area in the semi-arid region. In ENVIRONMENTAL RESEARCH. ISSN 0013-9351, NOV 2022, vol. 214, 1. Dostupné na: https://doi.org/10.1016/j.envres.2022.113749, Registrované v: WOS

5. [1.1] YU, F.M. - TANG, S.T. - SHI, X.W. - LIANG, X. - LIU, K.H. - HUANG, Y.Z. - LI, Y. Phytoextraction of metal(loid)s from contaminated soils by six plant species: A field study. In SCIENCE OF THE TOTAL ENVIRONMENT. ISSN 0048-9697, JAN 15 2022, vol. 804. Dostupné na: https://doi.org/10.1016/j.scitotenv.2021.150282, Registrované v: WOS

6. [1.2] LI, Yi - ZHANG, Hai Chun - LIU, Yuan - WEI, Jiao Teng - WANG, Cong - LIANG, Ying - LIU, Ke Hui - YU, Fang Ming. Characteristics on the community structure and abundance of diazotrophs from the soil profile in the Siding mine area. In Zhongguo Huanjing Kexue/China Environmental Science, 2022-04-20, 42, 4, pp. 1819-1828. ISSN 10006923., Registrované v: SCOPUS

7. [1.2] SAEID, Agnieszka - CEPOI, Liliana - JASTRZĘBSKA, Magdalena - NOMNGONGO, Philiswa N. Bioremediation of Heavy Metal Ions Contaminated Soil. In Soil Bioremediation: An Approach Towards Sustainable Technology, 2021-01-01, pp. 87-114. Dostupné na:

https://doi.org/10.1002/9781119547976.ch5, *Registrované v: SCOPUS*

ADDA12 KOCIANOVÁ, Elena - BLAŠKOVIČ, Dušan - SMETANOVÁ, Katarína - SCHWARZOVÁ, Katarína - BOLDIŠ, Vojtech - KOŠŤANOVÁ, Z. - MULLEROVÁ, Denisa - BARÁK, Imrich. Comparison of an oligo-chip based assay with PCR method to measure the prevalence of tick-borne pathogenic bacteria in central Slovakia. In Biologia, 2008, vol. 63, no.1, p. 34-37. (2007: 0.207 - IF, Q4 - JCR, 0.153 - SJR, Q3 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-008-0007-1

Citácie:

1. [1.1] DRAZOVSKA, Monika - PROKES, Marian - VOJTEK, Boris - MOJZISOVA, Jana - ONDREJKOVA, Anna - KORYTAR, Lubos. First serological record of Coxiella burnetii infection in the equine population of Slovakia. In BIOLOGIA, 2022, vol. 77, no. 6, pp. 1645-1649. ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00898-4, Registrované v: WOS

ADDA13 KOPČÁKOVÁ, Anna - STRAMOVÁ, Zuzana - KVASNOVÁ, S. - GODÁNY, Andrej - PERHÁČOVÁ, Zuzana - PRISTAŠ, Peter. Need for database extension for reliable identification of bacteria from extreme environments using MALDI TOF mass spectrometry. In Chemical Papers, 2014, vol. 68, p. 1435–1442. (2013: 1.193 - IF, Q3 - JCR, 0.308 - SJR, Q2 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0366-6352. Dostupné na: https://doi.org/10.2478/s11696-014-0612-0

Citácie:

1. [1.2] JHARIYA, Upasana - PAL, Sukdeb. Proteomic, Genomic, and Metabolomic Understanding and Designing for Bioremediation of Environmental Contaminants. In Omics Insights in Environmental Bioremediation, 2022-01-01, pp. 415-435. Dostupné na: https://doi.org/10.1007/978-981-19-4320-1_18, Registrované v: SCOPUS

ADDA14 KUKUROVÁ, K. - KAROVICOVA, J. - KOHAJDOVA, Z. - BÍLIKOVÁ, Katarína. Authentication of honey by multivariate analysis of its physico-chemical parameters. In Journal of Food and Nutrition Research, 2008, vol. 47, p. 170-180. (2007: 0.000 - IF, 0.169 - SJR, Q3 - SJR). ISSN 1336-8672.

Citácie:

1. [1.1] ALSHAMMARI, Ghedeir Muslem - AHMED, Mohammed Asif - ALSULAMI, Tawfiq - HAKEEM, Mohammed Jamal - IBRAHEEM, Mohamed Abdrabo - AL-NOURI, Doha M. Phenolic Compounds, Antioxidant Activity, Ascorbic Acid, and Sugars in Honey from Ingenious Hail Province of Saudi Arabia. In APPLIED SCIENCES-BASEL, 2022, vol. 12, no. 16, pp. Dostupné na: https://doi.org/10.3390/app12168334, Registrované v: WOS

2. [1.1] YONG, Chin-Hong - MUHAMMAD, Syahidah Akmal - ABD AZIZ, Fatimatuzzahra'; - NASIR, Fatin Ilyani - MUSTAFA, Mohd Zulkifli - IBRAHIM, Baharudin - KELLY, Simon D. - CANNAVAN, Andrew - SEOW, Eng-Keng. Detecting adulteration of stingless bee honey using untargeted H-1 NMR metabolomics with chemometrics. In FOOD CHEMISTRY, 2022, vol. 368, no., pp. ISSN 0308-8146. Dostupné na: https://doi.org/10.1016/j.foodchem.2021.130808, Registrované v: WOS

ADDA15 MACHOVIČ, Martin - JANEČEK, Štefan. Domain evolution in the GH13 pullulanase subfamily with focus on the carbohydrate-binding module family. In Biologia : journal of the Slovak Academy of Science, 2008, vol. 63, p. 1057-1068. (2007: 0.207 - IF, Q4 - JCR, 0.153 - SJR, Q3 - SJR, karentované - CCC). (2008 - Current Contents, SCOPUS). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-008-0162-4

Citácie:

1. [1.1] DUAN, Kaiwen - BAN, Xiaofeng - WANG, Yinglan - LI, Caiming - GU, Zhengbiao - LI, Zhaofeng. Improving the Product Specificity of Maltotetraose-Forming Amylase from Pseudomonas saccharophila STB07 by Removing the Carbohydrate-Binding Module. In JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, 2022, vol. 70, no. 42, pp. 13709-13718. ISSN 0021-8561. Dostupné na: https://doi.org/10.1021/acs.jafc.2c05580, Registrované v: WOS

2. [1.1] JIANG, Hui - CAO, HanWen - CHAI, Zhi-Xin - CHEN, Xiao-Ying - ZHANG, Cheng-Fu - ZHU, Yong - XIN, Jin-Wei. Dynamic alterations in yak (Bos grunniens) rumen microbiome in response to seasonal variations in diet. In PHYSIOLOGICAL GENOMICS, 2022, vol. 54, no. 12, pp. 514-525. ISSN 1094-8341. Dostupné na: https://doi.org/10.1152/physiolgenomics.00112.2022, Registrované v: WOS

3. [1.1] PINEDA-MENDOZA, Rosa Maria - ZUNIGA, Gerardo - LOPEZ, Maria Fernanda - HIDALGO-LARA, Maria Eugenia - SANTIAGO-HERNANDEZ, Alejandro - LOPEZ-LOPEZ, Azucena - ORDUNA, Flor N. Rivera - CANO-RAMIREZ, Claudia. Rahnella sp., a Dominant Symbiont of the Core Gut Bacteriome of Dendroctonus Species, Has Metabolic Capacity to Degrade Xylan by Bifunctional Xylanase-Ferulic Acid Esterase. In FRONTIERS IN MICROBIOLOGY, 2022, vol. 13, no., pp. Dostupné na: https://doi.org/10.3389/fmicb.2022.911269, Registrované v: WOS

4. [1.1] PRONGJIT, Daran - LEKAKARN, Hataikarn - BUNTERNGSOOK, Benjarat - AIEWVIRIYASAKUL, Katesuda - SRITUSNEE, Wipawee - ARUNRATTANAMOOK, Nattapol - CHAMPREDA, Verawat. In-Depth Characterization of Debranching Type I Pullulanase from Priestia koreensis HL12 as Potential Biocatalyst for Starch Saccharification and Modification. In CATALYSTS, 2022, vol. 12, no. 9, pp. Dostupné na: https://doi.org/10.3390/catal12091014, Registrované v: WOS

5. [1.1] RAVI, Anuradha - TRONCOSO-REY, Perla - AHN-JARVIS, Jennifer - CORBIN, Kendall R. - HARRIS, Suzanne - HARRIS, Hannah - AYDIN, Alp - KAY, Gemma L. - LE VIET, Thanh - GILROY, Rachel - PALLEN, Mark J. - PAGE, Andrew J. - O';GRADY, Justin - WARREN, Frederick J. Hybrid metagenome assemblies link carbohydrate structure with function in the human gut microbiome. In COMMUNICATIONS BIOLOGY, 2022, vol. 5, no. 1, pp. Dostupné na: https://doi.org/10.1038/s42003-022-03865-0, Registrované v: WOS

6. [1.1] ZHAO, Congcong - WANG, Lamei - KE, Shanlin - CHEN, Xinhua - KENEZ, Akos - XU, Wei - WANG, Dangdang - ZHANG, Fan - LI, Yong - CUI, Zhanhong - QIAO, Yu - WANG, Jing - SUN, Wenjuan - ZHAO, Jianhua - YAO, Junhu - YU, Zhongtang - CAO, Yangchun. Yak rumen microbiome elevates fiber degradation ability and alters rumen fermentation pattern to increase feed efficiency. In ANIMAL NUTRITION, 2022, vol. 11, no., pp. 201-214. ISSN 2405-6383. Dostupné na: https://doi.org/10.1016/j.aninu.2022.07.014, Registrované v: WOS

ADDA16 NOVÁKOVÁ, Jana - FARKAŠOVSKÝ, Marian. Bioprospecting microbial metagenome for natural products. In Biologia : journal of the Slovak Academy of Sciences, 2013, vol. 68, p. 1079-1086. (2012: 0.506 - IF, Q4 - JCR, 0.256 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-013-0246-7

Citácie:

1. [1.1] ALAM, K. - ABBASI, M.N. - HAO, J.F. - ZHANG, Y.M. - LI, A.Y. Strategies for Natural Products Discovery from Uncultured Microorganisms. In MOLECULES. MAY 2021, vol. 26, no. 10. Dostupné na: https://doi.org/10.3390/molecules26102977, Registrované v: WOS

2. [1.1] ZAIDI, S.S.A. - KAYANI, M.U.R. - ZHANG, X.G. - OUYANG, Y.N. - SHAMSI, I.H. Prediction and analysis of metagenomic operons via MetaRon: a pipeline for prediction of Metagenome and whole-genome opeRons. In BMC GENOMICS. ISSN 1471-2164, JAN 19 2021, vol. 22, no. 1. Dostupné na: https://doi.org/10.1186/s12864-020-07357-5, Registrované v: WOS

3. [1.2] HANS, Aradhana Lucky - SAXENA, Sangeeta. Plant Bioprospecting for Biopesticides and Bioinsecticides. In Bioprospecting of Plant Biodiversity for Industrial Molecules, 2021-01-01, pp. 335-344. Dostupné na: https://doi.org/10.1002/9781119718017.ch16, Registrované v: SCOPUS

ADDA17 PETROVČÍKOVÁ, Eva** - VIČÍKOVÁ, Kristína - LEKSA, Vladimír. Extracellular vesicles – biogenesis, composition, function, uptake and therapeutic applications. In Biologia, 2018, vol. 73, p. 437-448. (2017: 0.696 - IF, Q4 - JCR, 0.299 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-018-0047-0

Citácie:

1. [1.1] CRUM, R.J. - CAPELLA-MONSONIS, H. - BADYLAK, S.F. - HUSSEY, G.S. Extracellular Vesicles for Regenerative Medicine Applications. In APPLIED SCIENCES-BASEL. AUG 2022, vol. 12, no. 15., Registrované v: WOS

2. [1.1] DI SANTO, R. - VACCARO, M. - ROMANO, S. - DI GIACINTO, F. - PAPI, M. - RAPACCINI, G.L. - DE SPIRITO, M. - MIELE, L. - BASILE, U. - CIASCA, G. Machine Learning-Assisted FTIR Analysis of Circulating Extracellular Vesicles for Cancer Liquid Biopsy. In JOURNAL OF PERSONALIZED MEDICINE. JUN 2022, vol. 12, no. 6., Registrované v: WOS

3. [1.1] MUKHERJEE, S. - PILLAI, P.P. Current insights on extracellular vesicle-mediated glioblastoma progression: Implications in drug resistance and epithelial-mesenchymal transition. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, MAR 2022, vol. 1866, no. 3., Registrované v: WOS

ADDA18 PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - CHOVANOVÁ, Katarína - HARICHOVÁ, Janka - KARELOVÁ, Edita - GODOČÍKOVÁ, Jana - POLEK, Bystrík - FERIANC, Peter - PANGALLO, Domenico. Diversity and PAH growth abilities of bacterial strains isolated from a contaminated soil in Slovakia. In Biologia : journal of the Slovak Academy of Sciences, 2013, vol. 68, p. 587-591. (2012: 0.506 - IF, Q4 - JCR, 0.256 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-013-0193-3

Citácie:

1. [1.1] DIKE, K.S. - OKAFOR, C.P. - OHABUGHIRO, B.N. - MADUWUBA, M.C. - EZEOKOLI, O.T. - AYENI, K. - OKAFOR, C.M. - EZEKIEL, C.N. Analysis of bacterial communities of three cassava-based traditionally fermented Nigerian foods (abacha, fufu and garri). In LETTERS IN APPLIED MICROBIOLOGY. ISSN 0266-8254, MAR 2022, vol. 74, no. 3, p. 452-461. Dostupné na: https://doi.org/10.1111/lam.13621, Registrované v: WOS

2. [1.1] HUSSEIN, Z.S. - HAMIDO, N. - HEGAZY, A.K. - DESSOUSKY, M.A.E. - MOHAMED,

N.H. - SAFWAT, G. Phytoremediation of Crude Petroleum Oil Pollution: A Review. In EGYPTIAN JOURNAL OF BOTANY. ISSN 0375-9237, SEP 2022, vol. 62, no. 3, p. 611-640. Dostupné na: https://doi.org/10.21608/ejbo.2022.136551.1980, Registrované v: WOS
3. [1.1] WIJESOORIYA, M.M. - MASAKORALA, K. - GAMAGE, S.M.K.W. - GAMAGE, S.S.W. An approach to develop bioremediation by isolation and characterization of microorganisms from soil contaminated with used lubricating oil. In JOURNAL OF THE NATIONAL SCIENCE FOUNDATION OF SRI LANKA. ISSN 1391-4588, JUN 2022, vol. 50, no. 2, p. 347-360. Dostupné na: https://doi.org/10.4038/jnsfsr.v50i2.10552, Registrované v: WOS

ADDA19 REMENÁR, Matej - HARICHOVÁ, Janka - ZÁMOCKÝ, Marcel - PANGALLO, Domenico - SZEMEŠ, T. - BUDIŠ, J. - SOLTYS, K. - FERIANC, Peter. Metagenomics of a nickel-resistant bacterial community in an anthropogenic nickel-contaminated soil in southwest Slovakia. In Biologia, 2017, vol. 72, no. 9, p. 971-981. (2016: 0.759 - IF, Q4 - JCR, 0.313 - SJR, Q3 - SJR, karentované - CCC). (2017 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.1515/biolog-2017-0117

Citácie:
1. [1.1] PHURAILATPAM, L. - DALAL, V.K. - SINGH, N. - MISHRA, S. Heavy Metal Stress Alleviation Through Omics Analysis of Soil and Plant Microbiome. In FRONTIERS IN SUSTAINABLE FOOD SYSTEMS. JAN 31 2022, vol. 5. Dostupné na: https://doi.org/10.3389/fsufs.2021.817932, Registrované v: WOS

ADDA20 REMENÁR, Matej - KARELOVÁ, Edita - HARICHOVÁ, Janka - ZÁMOCKÝ, Marcel - KRČOVÁ, Kristína - FERIANC, Peter. Actinobacteria occurrence and their metabolic characteristics in the nickel-contaminated soil sample. In Biologia, 2014, vol. 69, p. 1453—1463. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-014-0451-z

Citácie:
1. [1.1] PINO-OTIN, M.R. - FERRANDO, N. - BALLESTERO, D. - LANGA, E. - ROIG, F.J. - TERRADO, E.M. Impact of eight widely consumed antibiotics on the growth and physiological profile of natural soil microbial communities. In CHEMOSPHERE. ISSN 0045-6535, OCT 2022, vol. 305. Dostupné na: https://doi.org/10.1016/j.chemosphere.2022.135473, Registrované v: WOS
2. [1.1] TIGHIDET, S. - PLEWNIAK, F. - SAYEH, A. - GIL, L. - VANDECASTEELE, C. - LOPEZ-ROQUES, C. - KECHA, M. - BERTIN, P.N. Dyes Biodegradation in the Presence of Hexavalent Chromium by Streptomyces sp. KY75: a Novel Heavy Metal Resistant Strain Isolated in Algeria. In WATER AIR AND SOIL POLLUTION. ISSN 0049-6979, JUL 2022, vol. 233, no. 7. Dostupné na: https://doi.org/10.1007/s11270-022-05756-w, Registrované v: WOS
3. [1.2] ADENAN, Nurul H. - TING, Adeline S.Y. Actinobacteria from soils and their applications in environmental bioremediation. In Microbial Biotechnology: Role in Ecological Sustainability and Research, 2022-09-09, pp. 313-333. Dostupné na: https://doi.org/10.1002/9781119834489.ch16, Registrované v: SCOPUS
4. [1.2] MA, Chun Lan - LI, Jin Hua - BAI, Yu Fan - WEI, Yun Lin. Advances in Bacterial Adaptive Evolution under Heavy Metal Ion Stress. In China Biotechnology, 2022-02-25, 42, 1-2, pp. 182-190. ISSN 16718135. Dostupné na: https://doi.org/10.13523/j.cb.2108071, Registrované v: SCOPUS

ADDA21 ŘEHÁČEK, Jozef - KOCIANOVÁ, Elena - LUKÁČOVÁ, Magdaléna - VÝROSTEKOVÁ, V. - STANEK, G. - KHANAKAH, G. - VALKOVÁ, Dana. Detection of Spotted Fever Group (SFG) Rickettsia in Ixodes Ricinus Ticks in Austria. In Acta Virologica, 1997, vol. 41, no. 6, s. 355-356. (1996: 0.481 - IF, karentované - CCC). (1997 - Current Contents). ISSN 0001-723X.

Citácie:
1. [1.1] STANKO, M. - DERDáKOVA, M. - SPITALSKá, E. - KAZIMíROVA, M. Ticks and their epidemiological role in Slovakia: from the past till present. In BIOLOGIA. ISSN 0006-3088, JUN 2022, vol. 77, no. 6, SI, p. 1575-1610. Dostupné na: https://doi.org/10.1007/s11756-021-00845-3, Registrované v: WOS

ADDA22 STRUHARNANSKA, E. - CHOVANOVÁ, M. - RYBECKÁ, S. - MIKULÁŠOVÁ, M. - LEVARSKI, Z. - ZÁMOCKÝ, Marcel - STUCHLÍK, S. - TURŇA, Ján. Evaluation of thermostable catalase-peroxidase AfKatG supplementation on toxicity of residual hydrogen peroxide in cultivation media of lactic acid bacteria from starter cultures. In General Physiology and Biophysics, 2019, vol. 38, p. 455–460. (2018: 1.309 - IF, Q4 - JCR, 0.426 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2019030

Citácie:
1. [1.1] WOODS, D.F. - KOZAK, I.M. - O';GARA, F. Genome analysis and phenotypic characterization of Halomonas hibernica isolated from a traditional food process with novel quorum quenching and catalase activities. In MICROBIOLOGY-SGM. ISSN 1350-0872, SEP 2022, vol. 168, no. 9., Registrované v: WOS

ADDA23 ŠAKOVÁ, Nikoleta - SÁDECKÁ, Jana - LEJKOVÁ, J. - PUŠKÁROVÁ, Andrea - KOREŇOVÁ, J.

- KOLEK, Emil - VALIK, L. - KUCHTA, T. - PANGALLO, Domenico. Characterization of May bryndza cheese from various regions in Slovakia based on microbiological, molecular and principal volatile odorants examination. In Journal of Food and Nutrition Research, 2015, vol. 54, p. 239-251. (2014: 0.804 - IF, Q3 - JCR, 0.342 - SJR, Q3 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1336-8672.

Citácie:

1. [1.1] STEFáNIKOVA, J. - ARVAY, J. - KUNOVá, S. - KOWALCZEWSKI, P.L. - KACáNIOVá, M. Aroma profile and lactic acid bacteria characteristic of traditional Slovak cheese "May bryndza". In FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL. ISSN 1082-0132, OCT 2022, vol. 28, no. 7, p. 580-591. Dostupné na: https://doi.org/10.1177/10820132211039916, Registrované v: WOS

2. [1.1] TSIKOLIA, M. - TABANCA, N. - KLINE, D.L. - DEMIRCI, B. - YANG, L. - LINTHICUM, K.J. - BLOOMQUIST, J.R. - BERNIER, U.R. Studies on the Volatiles Composition of Stored Sheep Wool, and Attractancy toward Aedes aegypti Mosquitoes. In INSECTS. FEB 2022, vol. 13, no. 2. Dostupné na: https://doi.org/10.3390/insects13020208, Registrované v: WOS

ADDA24 ŠIMONOVIČOVÁ, A. - PANGALLO, Domenico - CHOVANOVÁ, Katarína - LEHOTSKÁ, Blanka. Geomyces destructans associated with bat disease WNS detected in Slovakia. In Biologia : journal of the Slovak Academy of Science, 2011, vol. 66, p. 562-564. (2010: 0.609 - IF, Q4 - JCR, 0.290 - SJR, Q3 - SJR, karentované - CCC). (2011 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-011-0041-2

Citácie:

1. [1.1] QIU, Lili - LI, Dandan - LI, Zengqiang - ZHANG, Jiabao - ZHAO, Bingzi. Biochar-induced variations in crop yield are closely associated with the abundance and diversity of keystone species. In SCIENCE OF THE TOTAL ENVIRONMENT, 2022, vol. 827, no., pp. ISSN 0048-9697. Dostupné na: https://doi.org/10.1016/j.scitotenv.2022.154340, Registrované v: WOS

ADDA25 ŠIMONOVIČOVÁ, A. - NOVÁKOVÁ, Alena - PANGALLO, Domenico - HNÁTOVÁ, V. - HUBKA, V. The occurrence of heat-resistant species of Trichophaea abundans in different types of soil in Slovakia and Czech Republic. In Biologia, 2014, vol. 69, p. 168-172. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-013-0300-5

Citácie:

1. [1.1] AMMITZBOLL, H. - JORDAN, G.J. - BAKER, S.C. - FREEMAN, J. - BISSETT, A. Contrasting successional responses of soil bacteria and fungi to post-logging burn severity. In FOREST ECOLOGY AND MANAGEMENT. ISSN 0378-1127, MAR 15 2022, vol. 508. Dostupné na: https://doi.org/10.1016/j.foreco.2022.120059, Registrované v: WOS

ADDA26 ŠMIDÁK, Roman - KRÁLOVIČOVÁ, Martina - ŠEVČÍKOVÁ, Beatrica - JAKUBCOVÁ, M. - KORMANEC, Ján - TIMKO, Jozef - TURŇA, Ján. Sequence analysis and gene amplification study of the penicillin biosynthesis gene cluster from different strains of Penicillium chrysogenum. In Biologia : journal of the Slovak Academy of Science, 2010, vol. 65, p. 1-6. (2009: 0.617 - IF, Q4 - JCR, 0.289 - SJR, Q3 - SJR, karentované - CCC). (2010 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-009-0216-2

Citácie:

1. [1.1] FIERRO, Francisco - VACA, Inmaculada - CASTILLO, Nancy - OVIDIO GARCIA-RICO, Ramon - CHAVEZ, Renato. Penicillium chrysogenum, a Vintage Model with a Cutting-Edge Profile in Biotechnology. In MICROORGANISMS, 2022, vol. 10, no. 3, pp. Dostupné na: https://doi.org/10.3390/microorganisms10030573, Registrované v: WOS

ADDA27 VIČÍKOVÁ, Kristína - PETROVČÍKOVÁ, Eva - MANKA, P. - DRACH, J. - STOCKINGER, H. - LEKSA, Vladimír**. Serum and urinary levels of CD222 in cancer: origin and diagnostic value. In Neoplasma, 2018, vol. 65, p. 762-768. (2017: 1.696 - IF, Q4 - JCR, 0.639 - SJR, Q3 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 0028-2685. Dostupné na: https://doi.org/10.4149/neo_2018_171203N792

Citácie:

1. [1.2] KHAN, Safir Ullah - KHAN, Munir Ullah - GAO, Yanyan - KHAN, Muhammad Imran - PUSWAL, Sabah Mushtaq - ZUBAIR, Muhammad - KHAN, Muhammad Ammar - FARWA, Rahat - GAO, Shuang - ALI, Rizwan - HUSSAIN, Nazim. Unique therapeutic potentialities of exosomes based nanodrug carriers to target tumor microenvironment in cancer therapy. In OpenNano, 2022-11-01, 8, pp. ISSN 23529520. Dostupné na: https://doi.org/10.1016/j.onano.2022.100091, Registrované v: SCOPUS

ADDA28 VIDOVÁ, Barbora - ŠRAMKOVÁ, Zuzana - TIŠÁKOVÁ, Lenka - ORAVKINOVÁ, M. - GODÁNY, Andrej. Bioinformatics analysis of bacteriophage and prophage endolysin domains. In Biologia : journal of the Slovak Academy of Sciences, 2014, vol. 69, no. 5, p. 541-556. (2013: 0.696 - IF, Q4 - JCR, 0.302 - SJR, Q3 - SJR, karentované - CCC). (2014 - Current Contents). ISSN 0006-3088. Dostupné na: https://doi.org/10.2478/s11756-014-0358-8

Citácie:
1. [1.1] RAMADOSS, R. - AL-SHUKRI, M. - SHOMAR, B. - ILYIN, V.A. - VINCENT, A.S. Substantiation of propitious "Enzybiotic" from two novel bacteriophages isolated from a wastewater treatment plant in Qatar. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 31 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-13171-8, Registrované v: WOS

ADDA29 ŽENIŠOVÁ, K.** - CABICAROVÁ, T. - SIDARI, R. - KOLEK, Emil - PANGALLO, Domenico - SZEMEŠ, T. - KUCHTA, T. Effects of co-fermentation with Lachancea thermotolerans or Metschnikowia pulcherrima on concentration of aroma compounds in Pinot Blanc wine. In Journal of Food and Nutrition Research, 2021, vol. 60, p. 87–91. (2020: 1.333 - IF, Q4 - JCR, 0.312 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1336-8672.

Citácie:
1. [1.1] ENGLEZOS, V. - JOLLY, N.P. - DI GIANVITO, P. - RANTSIOU, K. - COCOLIN, L. Microbial interactions in winemaking: Ecological aspects and effect on wine quality. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, SEP 2022, vol. 127, p. 99-113., Registrované v: WOS

ADEA Vedecké práce v ostatných zahraničných časopisoch – impaktovaných

ADEA01 CIPAKOVA, I. - HOSTINOVÁ, Eva. Production of the human-beta-defensin using Saccharomyces cerevisiae as a host. In Protein and Peptide Letters, 2005, vol. 12, p. 551-554. Dostupné na: https://doi.org/10.2174/0929866054395761

Citácie:
1. [1.1] ROCA-PINILLA, Ramon - LISOWSKI, Leszek - ARIS, Anna - GARCIA-FRUITOS, Elena. The future of recombinant host defense peptides. In MICROBIAL CELL FACTORIES, 2022, vol. 21, no. 1, pp. Dostupné na: https://doi.org/10.1186/s12934-022-01991-2, Registrované v: WOS

ADEA02 D';ELIA, D. - GISEL, A. - ERIKSSON, N.-E. - KOSSIDA, S. - MATTILA, K. - KLUCAR, L., Ľuboš - BONGCAM-RUDLOFF, E. The 20(th) anniversary of EMBnet: 20 years of bioinformatics for the life sciences community introduction. In BMC Bioinformatics, 2009, vol. 10, suppl. 6, art. no. S1. (2008: 3.781 - IF, Q1 - JCR, 1.951 - SJR, Q1 - SJR). ISSN 1471-2105. Dostupné na: https://doi.org/10.1186/1471-2105-10-S6-S1

Citácie:
1. [1.2] COUVIN, David - DEREEPER, Alexis - MEYER, Damien F. - NOROY, Christophe - GAETE, Stanie - BHAKKAN, Bernard - POULLET, Nausicaa - GASPARD, Sarra - BEZAULT, Etienne - MARCELINO, Isabel - PRUNEAU, Ludovic - SEGRETIER, Wilfried - STATTNER, Erick - CAZENAVE, Damien - GARNIER, Maëlle - POT, Matthieu - TRESSIÈRES, Benoît - DELOUMEAUX, Jacqueline - BREUREC, Sébastien - FERDINAND, Séverine - GONZALEZ-RIZZO, Silvina - REYNAUD, Yann. KaruBioNet: a network and discussion group for a better collaboration and structuring of bioinformatics in Guadeloupe (French West Indies). In Bioinformatics Advances, 2022-01-01, 2, 1, pp. Dostupné na: https://doi.org/10.1093/bioadv/vbac010, Registrované v: SCOPUS

ADEA03 FACEY, P.D. - ŠEVČÍKOVÁ, Beatrica - NOVÁKOVÁ, Renáta - HITCHINGS, M.D. - CRACK, J.C. - KORMANEC, Ján - DYSON, P. - DEL SOL, R. The dpsA gene of Streptomyces coelicolor: induction of expression from a single promoter in response to environmental stress or during development. In PLoS ONE, 2011, vol. 6., p. e25593. (2010: 4.411 - IF, Q1 - JCR, 2.705 - SJR, Q1 - SJR, karentované - CCC). (2011 - Current Contents, MEDLINE). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0025593

Citácie:
1. [1.2] GAO, Qi - DENG, Sizhe - JIANG, Tianyu. Recent developments in the identification and biosynthesis of antitumor drugs derived from microorganisms. In Engineering Microbiology, 2022-12-01, 2, 4, pp. ISSN 26673703. Dostupné na: https://doi.org/10.1016/j.engmic.2022.100047, Registrované v: SCOPUS

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 BRINDZA, Ján - GRÓF, Ján - BACIGÁLOVÁ, Kamila - FERIANC, Peter - TÓTH, Dezider. Pollen microbial colonization and food safety. In Acta Chimica Slovaca, 2010, vol. 3, no. 1, p. 95-102.

Citácie:
1. [1.1] LIOLIOS, Vasilios - TANANAKI, Chrysoula - KANELIS, Dimitrios. The microbiological quality of fresh bee pollen during the harvesting process. In JOURNAL OF APICULTURAL RESEARCH, 2022, vol., no., pp. ISSN 0021-8839. Dostupné na: https://doi.org/10.1080/00218839.2022.2140924, Registrované v: WOS

ADFB02 TIŠÁKOVÁ, Lenka - GODÁNY, Andrej. Bacteriophage endolysins and their use in biotechnological processes. In Journal of Microbiology, Biotechnology and Food Sciences, 2014, vol. 3, sI p. 164-170.

ISSN 1338-5178.
Citácie:
1. [1.1] YE, J.M. - GUO, J.Q. - LI, T.R. - TIAN, J.X. - YU, M.X. - WANG, X.C. - MAJEED, U. - SONG, W. - XIAO, J.B. - LUO, Y.N. - YUE, T.L. Phage-based technologies for highly sensitive luminescent detection of foodborne pathogens and microbial toxins: A review. In COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY. ISSN 1541-4337, MAR 2022, vol. 21, no. 2, p. 1843-1867. Dostupné na: https://doi.org/10.1111/1541-4337.12908, Registrované v: WOS

ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMA01 BARÁK, Imrich** - MUCHOVÁ, Katarína - LABAJOVÁ, Naďa. Asymmetric cell division during Bacillus subtilis sporulation. In Future Microbiology, 2019, vol. 14, p. 353-363. (2018: 2.746 - IF, Q3 - JCR, 1.065 - SJR, Q2 - SJR). (2019 - SCOPUS). ISSN 1746-0913. Dostupné na: https://doi.org/10.2217/fmb-2018-0338
Citácie:
1. [1.1] DELBRUCK, A.I. - TRITTEN, Y. - NANNI, P. - HEYDENREICH, R. - MATHYS, A. Moderate High-Pressure Superdormancy in Bacillus Spores: Properties of Superdormant Spores and Proteins Potentially Influencing Moderate High-Pressure Germination. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, FEB 2022, vol. 88, no. 4., Registrované v: WOS

ADMA02 BARÁK, Imrich** - MUCHOVÁ, Katarína. The positioning of the asymmetric septum during sporulation in Bacillus subtilis. In PLoS ONE, 2018, vol. 13, no. e0201979. (2017: 2.766 - IF, Q1 - JCR, 1.164 - SJR, Q1 - SJR). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0201979
Citácie:
1. [1.1] DELBRUCK, A.I. - TRITTEN, Y. - NANNI, P. - HEYDENREICH, R. - MATHYS, A. Moderate High-Pressure Superdormancy in Bacillus Spores: Properties of Superdormant Spores and Proteins Potentially Influencing Moderate High-Pressure Germination. In APPLIED AND ENVIRONMENTAL MICROBIOLOGY. ISSN 0099-2240, FEB 2022, vol. 88, no. 4., Registrované v: WOS
2. [1.1] MILLER, A.K. - HERMAN, J.K. RefZ and Noc Act Synthetically to Prevent Aberrant Divisions during Bacillus subtilis Sporulation. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, JUN 21 2022, vol. 204, no. 6., Registrované v: WOS

ADMA03 BARÁK, Imrich. Editorial: Spores and Spore Formers. In Frontiers in Microbiology, 2017, vol. 8, art. no. 1046. (2016: 4.076 - IF, Q1 - JCR, 1.759 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2017.01046
Citácie:
1. [1.1] DAWWAM, G.E. - SEHIM, A.E. Promising biological agents represented in Bacillus velezensis 33RB and Aspergillus niger 46SF endophytic isolates for controlling Populus tomentosa wilt and anthracnose diseases. In EGYPTIAN JOURNAL OF BIOLOGICAL PEST CONTROL. ISSN 1110-1768, DEC 23 2022, vol. 32, no. 1. Dostupné na: https://doi.org/10.1186/s41938-022-00644-1, Registrované v: WOS
2. [1.1] XIONG, L.T. - GUO, X.Y. - DONG, L. - JIAN, J.T. - LIAO, X. - TANG, R.Y. - XU, H.H. Microemulsification of nonvolatile components of Melaleuca alternifolia and borneol can effectively defend Rhizoctonia solani. In INDUSTRIAL CROPS AND PRODUCTS. ISSN 0926-6690, SEP 15 2022, vol. 184. Dostupné na: https://doi.org/10.1016/j.indcrop.2022.115052, Registrované v: WOS

ADMA04 BAUER, Jacob - ZÁMOCKÁ, Monika - MAJTÁN, Juraj - BAUEROVÁ, Vladena**. Glucose Oxidase, an Enzyme "Ferrari": Its Structure, Function, Production and Properties in the Light of Various Industrial and Biotechnological Applications. In Biomolecules : Open Access Journal, 2022, vol. 12, art. no. 472. (2021: 6.064 - IF, Q2 - JCR, 1.019 - SJR, Q2 - SJR). ISSN 2218-273X. Dostupné na: https://doi.org/10.3390/biom12030472
Citácie:
1. [1.1] MATUSZEWSKA, E. - PLEWA, S. - PIETKIEWICZ, D. - KOSSAKOWSKI, K. - MATYSIAK, J. - ROSINSKI, G. - MATYSIAK, J. Mass Spectrometry-Based Identification of Bioactive Bee Pollen Proteins: Evaluation of Allergy Risk after Bee Pollen Supplementation. In MOLECULES. NOV 2022, vol. 27, no. 22., Registrované v: WOS
2. [1.1] RUSU, A.G. - CHIRIAC, A.P. - NITA, L.E. - BALAN, V. - SERBAN, A.M. - CROITORIU, A. Synthesis and Comparative Studies of Glucose Oxidase Immobilized on Fe3O4 Magnetic Nanoparticles Using Different Coupling Agents. In NANOMATERIALS. JUL 2022, vol. 12, no. 14., Registrované v: WOS

3. [1.1] WANG, F. - CHEN, X.N. - WANG, Y.G. - LI, X. - WAN, M.L. - ZHANG, G. - LENG, F.F. - ZHANG, H.B. Insights into the Structures, Inhibitors, and Improvement Strategies of Glucose Oxidase. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. SEP 2022, vol. 23, no. 17., Registrované v: WOS

ADMA05 FALTINOVÁ, Andrea - TOMÁŠKOVÁ, Nataša - ANTALÍK, Marián - ŠEVČÍK, Jozef - ZAHRADNÍKOVÁ, Alexandra. The N-terminal region of the ryanodine receptor affects channel activation. In Frontiers in Physiology, 2017, vol. 8, p. 443. (2016: 4.134 - IF, Q1 - JCR, 1.814 - SJR, Q1 - SJR). ISSN 1664-042X. Dostupné na: https://doi.org/10.3389/fphys.2017.00443
(APVV-15-0302 : Cytoarchitektúra vápnikovej signalizácie srdcových myocytov vo vývoji hypertrofie myokardu. APVV-0721-10 : Remodelovanie myokardu – úloha vápnikovej signalizácie (REMOD). Vega č. 2/0143/17 : Diastolická funkcia ryanodínového receptora a tvorba arytmogénnych vápnikových vĺn. Vega č. 2/0148/14 : Vzťahy medzi štruktúrou a funkciou ryanodínového receptora)

Citácie:

1. [1.1] HU, J.J. - GAO, X.P. - CHEN, L.C. - ZHOU, T.S. - DU, Z.L. - JIANG, J.H. - WEI, L. - ZHANG, Z.J. A novel mutation in ryanodine receptor 2 (RYR2) genes at c.12670G>T associated with focal epilepsy in a 3-year-old child. In FRONTIERS IN PEDIATRICS. ISSN 2296-2360, OCT 19 2022, vol. 10. Dostupné na: https://doi.org/10.3389/fped.2022.1022268, Registrované v: WOS

ADMA06 FLEMMING, J. - ZÁMOCKÝ, Marcel - ALIA, A. Amyloid β and free heme: bloody new insights into the pathogenesis of Alzheimer's disease. In Neural Regeneration Research, 2018, vol. 13, p. 1170-1174. (2017: 2.234 - IF, Q3 - JCR, 0.648 - SJR, Q3 - SJR). ISSN 1673-5374. Dostupné na: https://doi.org/10.4103/1673-5374.235021

Citácie:

1. [1.1] DEY, S.G. - ROY, M. - NATH, A.K. - PAL, I. Second Sphere Interactions in Amyloidogenic Diseases. In CHEMICAL REVIEWS. ISSN 0009-2665, APR 26 2022, vol. 122, no. 14, p. 12132-12206. Dostupné na: https://doi.org/10.1021/acs.chemrev.1c00941, Registrované v: WOS
2. [1.1] NATH, A.K. - DEY, S.G. Simultaneous binding of heme and Cu with amyloid β peptides: active site and reactivities. In DALTON TRANSACTIONS. ISSN 1477-9226, MAR 29 2022, vol. 51, no. 13, p. 4986-4999. Dostupné na: https://doi.org/10.1039/d2dt00162d, Registrované v: WOS
3. [1.2] JIA, Yaquan - SONG, Junying - YUAN, Yong - LI, Junlin - DING, Rui - ZHANG, Zhenqiang. Liuwei Dihuangwan Regulate Brain Microvessels in SAMP8 Mice Through RAGE/LRP1 Receptors. In Chinese Journal of Experimental Traditional Medical Formulae, 2022-01-01, 28, 16, pp. 9-18. ISSN 10059903. Dostupné na: https://doi.org/10.13422/j.cnki.syfjx.20220804, Registrované v: SCOPUS

ADMA07 FLORES - RAMÍREZ, Gabriela - JANEČEK, Štefan - MIERNYK, J.A. - ŠKULTÉTY, Ľudovít. In silico biosynthesis of virenose a methylated deoxy-sugar unique to Coxiella burnetii lipopolysaccharide. In Proteome Science, 2012, vol. 10, no. 1, p. 67-73. (2011: 2.328 - IF). ISSN 1477 - 5956. Dostupné na: https://doi.org/10.1186/1477-5956-10-67

Citácie:

1. [1.1] CROSS, Alice R. - ROY, Sumita - VEGA, Mirella Vivoli - REJZEK, Martin - NEPOGODIEV, Sergey A. - CLIFF, Matthew - SALMON, Debbie - ISUPOV, Michail N. - FIELD, Robert A. - PRIOR, Joann L. - HARMER, Nicholas J. Spinning sugars in antigen biosynthesis: characterization of the Coxiella burnetii and Streptomyces griseus TDP-sugar epimerases. In JOURNAL OF BIOLOGICAL CHEMISTRY, 2022, vol. 298, no. 5, pp. Dostupné na: https://doi.org/10.1016/j.jbc.2022.101903, Registrované v: WOS

ADMA08 GABRIŠKO, Marek - BARÁK, Imrich. Evolution of the SpoIISABC toxin-antitoxin-antitoxin system in bacilli. In Toxins, 2016, vol. 8, p. 1-16. (2015: 3.571 - IF, Q1 - JCR, 0.971 - SJR, Q2 - SJR). ISSN 2072-6651. Dostupné na: https://doi.org/10.3390/toxins8060180

Citácie:

1. [1.1] SCHONS-FONSECA, L. - LAZOVA, M.D. - SMITH, J.L. - ANDERSON, M.E. - GROSSMAN, A.D. Beneficial and detrimental genes in the cellular response to replication arrest. In PLOS GENETICS. ISSN 1553-7404, DEC 2022, vol. 18, no. 12. Dostupné na: https://doi.org/10.1371/journal.pgen.1010564, Registrované v: WOS

ADMA09 GACEK-MATTHEWS, A. - CHROMÍKOVÁ, Zuzana - SULYOK, Michael - LÜCKING, G. - BARÁK, Imrich** - EHLING-SCHULZ, M.**. Beyond toxin transport: novel role of ABC transporter for enzymatic machinery of cereulide NRPS assembly line. In mBio, 2020, vol. 11, no. e01577. (2019: 6.784 - IF, Q1 - JCR, 3.876 - SJR, Q1 - SJR). ISSN 2150-7511. Dostupné na: https://doi.org/10.1128/mBio.01577-20

Citácie:

1. [1.1] WANG, L. - LIU, Q. - GE, S.L. - LIANG, W.H. - LIAO, W.Y. - LI, W. - JIAO, G.A. - WEI, X.J. - SHAO, G.N. - XIE, L.H. - SHENG, Z.H. - HU, S.K. - TANG, S.Q. - HU, P.S. Genomic footprints related with adaptation and fumonisins production in Fusarium proliferatum. In FRONTIERS IN MICROBIOLOGY. SEP 21 2022, vol. 13., Registrované v: WOS

2. [1.1] YIN, X.M. - HAN, L. - ZHENG, W. - CAI, L. - QIN, M. - HE, Z.J. - KANG, J.C. Global regulatory factor AaLaeA upregulates the production of antitumor substances in the endophytic fungus Alternaria alstroemeria. In JOURNAL OF BASIC MICROBIOLOGY. ISSN 0233-111X, NOV 2022, vol. 62, no. 11, SI, p. 1402-1414., Registrované v: WOS

ADMA10 HAMED, M.B. - VRANCKEN, K. - BILYK, B. - KOEPFF, J. - NOVÁKOVÁ, Renáta - VAN MELLAERT, L. - OLDIGES, M. - LUZHETSKYY, A. - KORMANEC, Ján - ANNÉ, J. - KARAMANOU, S. - ECONOMOU, A. Monitoring protein secretion in streptomyces using fluorescent proteins. In Frontiers in Microbiology, 2018, vol. 9, no. 3019. (2017: 4.019 - IF, Q2 - JCR, 1.699 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2018.03019

Citácie:

1. [1.1] LIN, K.R. - ZHAO, N.N. - CAI, Y.H. - LIN, Y. - HAN, S.Y. - ZHENG, S.P. Genome-Scale Mining of Novel Anchor Proteins of Corynebacterium glutamicum. In FRONTIERS IN MICROBIOLOGY. FEB 4 2022, vol. 12. Dostupné na: https://doi.org/10.3389/fmicb.2021.677702, Registrované v: WOS

2. [1.1] WANG, J.T. - ZHU, H.H. - SHANG, H.Y. - GUO, B.S. - ZHANG, M.X. - WANG, F.Y. - ZHANG, L.P. - XU, J. - WANG, H. Development of a thiostrepton-free system for stable production of PLD in Streptomyces lividans SBT5. In MICROBIAL CELL FACTORIES. DEC 19 2022, vol. 21, no. 1. Dostupné na: https://doi.org/10.1186/s12934-022-01992-1, Registrované v: WOS

ADMA11 HOJCKOVA, K. - STANO, Matej - KĽUČÁR, Ľuboš. PhiBIOTICS: Catalogue of therapeutic enzybiotics, relevant research studies and practical applications. In BMC Microbiology, 2013, vol. 13, no. 53. (2012: 3.104 - IF, Q2 - JCR, 1.507 - SJR, Q1 - SJR). ISSN 1471-2180. Dostupné na: https://doi.org/10.1186/1471-2180-13-53

Citácie:

1. [1.1] BOCANOVA, L. - PSENKO, M. - BARáK, I. - HALGASOVA, N. - DRAHOVSKA, H. - BUKOVSKA, G. A novel phage-encoded endolysin EN534-C active against clinical strain Streptococcus agalactiae GBS. In JOURNAL OF BIOTECHNOLOGY. ISSN 0168-1656, NOV 20 2022, vol. 359, p. 48-58. Dostupné na: https://doi.org/10.1016/j.jbiotec.2022.09.016, Registrované v: WOS

2. [1.1] CHANG, R.Y.K. - NANG, S.C. - CHAN, H.K. - LI, J. Novel antimicrobial agents for combating antibiotic-resistant bacteria. In ADVANCED DRUG DELIVERY REVIEWS. ISSN 0169-409X, AUG 2022, vol. 187. Dostupné na: https://doi.org/10.1016/j.addr.2022.114378, Registrované v: WOS

3. [1.1] RAZEW, A. - SCHWARZ, J.N. - MITKOWSKI, P. - SABALA, I. - KAUS-DROBEK, M. One fold, many functions-M23 family of peptidoglycan hydrolases. In FRONTIERS IN MICROBIOLOGY. OCT 21 2022, vol. 13. Dostupné na: https://doi.org/10.3389/fmicb.2022.1036964, Registrované v: WOS

ADMA12 HRIC, Ivan - UGRAYOVÁ, S. - PENESOVÁ, Adela - RÁDIKOVÁ, Žofia - KUBÁŇOVÁ, Libuša - ŠARDZÍKOVÁ, S. - BARANOVIČOVÁ, Eva - KĽUČÁR, Ľuboš - BEKE, Gábor - GRENDÁR, M. - KOLISEK, M. - ŠOLTÝS, K. - BIELIK, V.**. The Efficacy of short-term weight loss programs and consumption of natural probiotic bryndza cheese on gut microbiota composition in women. In Nutrients, 2021, vol. 13, no. 1753. (2020: 5.719 - IF, Q1 - JCR, 1.418 - SJR, Q1 - SJR). ISSN 2072-6643. Dostupné na: https://doi.org/10.3390/nu13061753

Citácie:

1. [1.1] BLIESNER, A. - ECCLES-SMITH, J. - BATES, C. - HAYES, O. - HO, J.Y. - MARTINS, C. - TRUBY, H. - NITERT, M.D. Impact of Food-Based Weight Loss Interventions on Gut Microbiome in Individuals with Obesity: A Systematic Review. In NUTRIENTS. MAY 2022, vol. 14, no. 9., Registrované v: WOS

2. [1.1] LIU, C. - HUA, H.Y. - ZHU, H.K. - XU, W.Q. - GUO, Y.H. - YAO, W.R. - QIAN, H. - CHENG, Y.L. Study of the anti-fatigue properties of macamide, a key component in maca water extract, through foodomics and gut microbial genomics. In FOOD BIOSCIENCE. ISSN 2212-4292, OCT 2022, vol. 49., Registrované v: WOS

3. [1.1] MAFRA, D. - BORGES, N.A. - ALVARENGA, L. - RIBEIRO, M. - FONSECA, L. - LEAL, V.O. - SHIELS, P.G. - STENVINKEL, P. Fermented food: Should patients with cardiometabolic diseases go back to an early neolithic diet?. In CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION. ISSN 1040-8398, 2022 MAY 13 2022. Dostupné na: https://doi.org/10.1080/10408398.2022.2077300, Registrované v: WOS

ADMA13 CHEN, W.Y. - KRAKOVÁ, Lucia - WU, J.H. - PANGALLO, Domenico - JESZEOVÁ, Lenka - LIU, B. - YASUI, H. Community and proteomic analysis of anaerobic consortia converting tetramethylammonium to methane. In Archaea, 2017, vol. 2017, no. 2170535. (2016: 2.132 - IF, Q3 - JCR, 1.185 - SJR, Q1 - SJR). ISSN 1472-3646. Dostupné na: https://doi.org/10.1155/2017/2170535

Citácie:

1. [1.1] ALARCON-VIVERO, M. - MOENA, N.R.T. - GONZALEZ, F. - JOPIA-CONTRERAS, P. - ASPE, E. - BRIONES, H.U. - FERNANDEZ, K.S. Anaerobic biofilm enriched with an ammonia tolerant methanogenic consortium to improve wastewater treatment in the fishing industry. In BIOTECHNOLOGY LETTERS. ISSN 0141-5492, FEB 2022, vol. 44, no. 2, p. 239-251. Dostupné na: https://doi.org/10.1007/s10529-021-03213-y, Registrované v: WOS

2. [1.1] CHIDI, B.S. - OKUDOH, V.I. - HUTCHINSON, U.F. - NGONGANG, M.M. - MAPHANGA, T. - MADONSELA, B.S. - SHALE, K. - LIM, J.W. - NTWAMPE, S.K.O. A Perspective on Emerging Inter-Disciplinary Solutions for the Sustainable Management of Food Waste. In APPLIED SCIENCES-BASEL. NOV 2022, vol. 12, no. 22. Dostupné na: https://doi.org/10.3390/app122211399, Registrované v: WOS

ADMA14 CHOVANOVÁ, Katarína - BÖHMER, Miloslav - POLJOVKA, Andrej - BUDIŠ, J. - HARICHOVÁ, Janka - SZEMEŠ, T. - ZÁMOCKÝ, Marcel**. Parallel molecular evolution of catalases and superoxide dismutases - focus on thermophilic fungal genomes. In Antioxidants, 2020, vol. 9, iss. 11, p. 1047. (2019: 5.014 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). (2020 - WOS, SCOPUS). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox9111047

Citácie:

1. [1.1] ILARI, S. - PROIETTI, S. - RUSSO, P. - MALAFOGLIA, V. - GLIOZZI, M. - MAIUOLO, J. - OPPEDISANO, F. - PALMA, E. - TOMINO, C. - FINI, M. - RAFFAELI, W. - MOLLACE, V. - BONASSI, S. - MUSCOLI, C. A Systematic Review and Meta-Analysis on the Role of Nutraceuticals in the Management of Neuropathic Pain in In Vivo Studies. In ANTIOXIDANTS. DEC 2022, vol. 11, no. 12., Registrované v: WOS

2. [1.1] ZHAO, C.S. - BAO, Z.J. - FENG, H.Y. - CHEN, L.C. - LI, Q. Nitric oxide enhances resistance of Pleurotus eryngii to cadmium stress by alleviating oxidative damage and regulating of short-chain dehydrogenase/reductase family. In ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH. ISSN 0944-1344, JUL 2022, vol. 29, no. 35, p. 53036-53049., Registrované v: WOS

ADMA15 JAMROŠKOVIČ, Ján - CHROMÍKOVÁ, Zuzana - LIST, C. - BÁRTOVÁ, Barbora - BARÁK, Imrich - BERNIER-LATMANI, R. Variability in DPA and Calcium Content in the Spores of Clostridium Species. In Frontiers in Microbiology, 2016, vol. 7, p. 1791. (2015: 4.165 - IF, Q1 - JCR, 1.869 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2016.01791

Citácie:

1. [1.1] BALOH, M. - NERBER, H.N. - SORG, J.A. Imaging Clostridioides difficile Spore Germination and Germination Proteins. In JOURNAL OF BACTERIOLOGY. ISSN 0021-9193, JUL 19 2022, vol. 204, no. 7. Dostupné na: https://doi.org/10.1128/jb.00210-22, Registrované v: WOS

2. [1.1] BALOH, M. - SORG, J.A. Clostridioides difficile spore germination: initiation to DPA release. In CURRENT OPINION IN MICROBIOLOGY. ISSN 1369-5274, FEB 2022, vol. 65, p. 101-107. Dostupné na: https://doi.org/10.1016/j.mib.2021.11.001, Registrované v: WOS

3. [1.1] ESTEVES, E. - KOOLMAN, L. - WHYTE, P. - GUPTA, T.B. - BOLTON, D. An Evaluation of Sporicidal Treatments against Blown Pack Spoilage Associated Clostridium estertheticum and Clostridium gasigenes Spores. In APPLIED SCIENCES-BASEL. FEB 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.3390/app12031663, Registrované v: WOS

4. [1.1] MALLECK, T. - FEKRAOUI, F. - BORNARD, I. - HENRY, C. - HAUDEBOURG, E. - PLANCHON, S. - BROUSSOLLE, V. Insights into the Structure and Protein Composition of Moorella thermoacetica Spores Formed at Different Temperatures. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. JAN 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.3390/ijms23010550, Registrované v: WOS

ADMA16 KAPUSTOVÁ, Magdaléna* - GRANATA, Giuseppe* - NAPOLI, Edoardo - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - PANGALLO, Domenico** - GERACI, C.**. Nanoencapsulated essential oils with enhanced antifungal activity for potential application on agri-food, material and environmental fields. In Antibiotics, 2021, vol. 10, no. 31. (2020: 4.639 - IF, Q2 - JCR, 0.960 - SJR, Q1 - SJR). ISSN 2079-6382. Dostupné na: https://doi.org/10.3390/antibiotics10010031

Citácie:

1. [1.1] ABBAS, A. - ANWAR, F. - AHMAD, N. - SHAHID, M. - AL-MIJALLI, S.H. - YASEEN, M. - FAROOQ, S. - IQBAL, M. Characterization of Bioactives and Nutra-Pharmaceutical Potential of Supercritical Fluid and Hydro-Distilled Extracted Coriander Leaves Essential Oil. In DOSE-RESPONSE. ISSN 1559-3258, OCT 2022, vol. 20, no. 4., Registrované v: WOS

2. [1.1] ALSAKHAWY, S.A. - BAGHDADI, H.H. - EL-SHENAWY, M.A. - SABRA, S.A. - EL-HOSSEINY, L.S. Encapsulation of thymus vulgaris essential oil in caseinate/gelatin nanocomposite hydrogel: In vitro antibacterial activity and in vivo wound healing potential. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, NOV 25 2022, vol. 628.,

Registrované v: WOS
3. [1.1] AZIZKHANI, M. - RAVARI, R.K. Antimicrobial potential of probiotic cell-free and Carum copticum L. seed extracts co-nanoencapsulated in cellulose acetate fibers. In FOOD SCIENCE & NUTRITION. ISSN 2048-7177, SEP 2022, vol. 10, no. 9, p. 2969-2979., Registrované v: WOS
4. [1.1] HE, D.P. - WU, F.S. - MA, W.X. - GU, J.D. - XU, R.H. - HU, J.J. - YUE, Y.Q. - MA, Q. - WANG, W.F. - LI, S.W. Assessment of cleaning techniques and its effectiveness for controlling biodeterioration fungi on wall paintings of Maijishan Grottoes. In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, JUL 2022, vol. 171., Registrované v: WOS
5. [1.1] HEBISHY, E. - COLLETTE, L. - IHEOZOR-EJIOFOR, P. - ONARINDE, B.A. Stability and antimicrobial activity of lemongrass essential oil in nanoemulsions produced by high-intensity ultrasounds and stabilized by soy lecithin, hydrolyzed whey proteins, gum Arabic, or their ternary admixture. In JOURNAL OF FOOD PROCESSING AND PRESERVATION. ISSN 0145-8892, OCT 2022, vol. 46, no. 10., Registrované v: WOS
6. [1.1] KAMOU, N.N. - KALOGIOURI, N.P. - TRYFON, P. - PAPADOPOULOU, A. - KARAMANOLI, K. - DENDRINOU-SAMARA, C. - MENKISSOGLU-SPIROUDI, U. Impact of Geraniol and Geraniol Nanoemulsions on Botrytis cinerea and Effect of Geraniol on Cucumber Plants'; Metabolic Profile Analyzed by LC-QTOF-MS. In PLANTS-BASEL. OCT 2022, vol. 11, no. 19., Registrované v: WOS
7. [1.1] LIMA, A.L. - GRATIERI, T. - CUNHA, M. - GELFUSO, G.M. Polymeric nanocapsules: A review on design and production methods for pharmaceutical purpose. In METHODS. ISSN 1046-2023, MAR 2022, vol. 199, p. 54-66., Registrované v: WOS
8. [1.1] MONDEJAR-LOPEZ, M. - LOPEZ-JIMENEZ, A.J. - MARTINEZ, J.C.G. - AHRAZEM, O. - GOMEZ-GOMEZ, L. - NIZA, E. Comparative evaluation of carvacrol and eugenol chitosan nanoparticles as eco-friendly preservative agents in cosmetics. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, MAY 1 2022, vol. 206, p. 288-297., Registrované v: WOS
9. [1.1] ROUT, S. - TAMBE, S. - DESHMUKH, R.K. - MALI, S. - CRUZ, J. - SRIVASTAV, P.P. - AMIN, P.D. - GAIKWAD, K.K. - ANDRADE, E.H.D. - DE OLIVEIRA, M.S. Recent trends in the application of essential oils: The next generation of food preservation and food packaging. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, NOV 2022, vol. 129, p. 421-439., Registrované v: WOS
10. [1.1] SAOULAJAN, C. - BOUJIDA, N. - EL MIHYAOUI, A. - EL BAAKILI, A. - ALSHAHRANI, M.M. - LEE, L.H. - BOUYAHYA, A. Phytochemistry, pharmacological investigations, industrial applications, and encapsulation of Thymbra capitata L., a review. In TRENDS IN FOOD SCIENCE & TECHNOLOGY. ISSN 0924-2244, NOV 2022, vol. 129, p. 463-491., Registrované v: WOS
11. [1.1] TIWARI, S. - DUBEY, N.K. Nanoencapsulated essential oils as novel green preservatives against fungal and mycotoxin contamination of food commodities. In CURRENT OPINION IN FOOD SCIENCE. ISSN 2214-7993, JUN 2022, vol. 45., Registrované v: WOS

ADMA17 KRAJČÍKOVÁ, Daniela - BUGÁROVÁ, Veronika - BARÁK, Imrich**. Interactions of bacillus subtilis basement spore coat layer proteins. In Microorganisms, 2021, vol. 9, p. 285. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms9020285

Citácie:
1. [1.1] GONCALVES, G. - SANTOS, R.A. - COUTINHO, F. - PEDROSA, N. - CURADO, M. - MACHADO, M. - COSTAS, B. - BONNEVILLE, L. - SERRANO, M. - CARVALHO, A.P. - DIAZ-ROSALES, P. - OLIVA-TELES, A. - COUTO, A. - SERRA, C.R. Oral vaccination of fish against vibriosis using spore-display technology. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, OCT 13 2022, vol. 13., Registrované v: WOS

ADMA18 KUČERA, T. - OTYEPKA, M. - MATUŠKOVÁ, A. - SAMAD, A. - KUTEJOVÁ, Eva - JANATA, J. A computational study of the glycine-rich loop of mitochondrial processing peptidase. In PLoS ONE, 2013, vol. 8., iss. 9, p. e74518. (2012: 3.730 - IF, Q1 - JCR, 1.982 - SJR, Q1 - SJR). (2013 - MEDLINE). ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0074518

Citácie:
1. [1.1] TACHEZY, J. - MAKKI, A. - HRDY, I. The hydrogenosome of Trichomonas vaginalis. In JOURNAL OF EUKARYOTIC MICROBIOLOGY. ISSN 1066-5234, NOV 2022, vol. 69, no. 6. Dostupné na: https://doi.org/10.1111/jeu.12922, Registrované v: WOS

ADMA19 LAZZAROTTO, F. - MENGUER, P.K. - DEL-BEM, L.-E. - ZÁMOCKÝ, Marcel - MARGIS-PINHEIRO, M.**. Ascorbate peroxidase neofunctionalization at the origin of APX-R and APX-L: evidence from basal archaeplastida. In Antioxidants, 2021, vol. 10, p. 597. (2020: 6.313 - IF, Q1 - JCR, 1.067 - SJR, Q2 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox10040597

Citácie:
1. [1.1] GONZALEZ-GORDO, S. - RODRIGUEZ-RUIZ, M. - LOPEZ-JARAMILLO, J. - MUNOZ-VARGAS, M.A. - PALMA, J.M. - CORPAS, F.J. Nitric Oxide (NO) Differentially Modulates the Ascorbate Peroxidase (APX) Isozymes of Sweet Pepper (Capsicum annuum L.) Fruits. In ANTIOXIDANTS. APR 2022, vol. 11, no. 4., Registrované v: WOS

ADMA20 LÉPESOVÁ, K. - KRAKOVÁ, Lucia - PANGALLO, Domenico - MEDVEĎOVÁ, A. - OLEJNÍKOVÁ, Petra - MACKUĽAK, T. - TICHÝ, J. - GRABIC, R. - BIROŠOVÁ, Lucia. Prevalence of antibiotic-resistant coliform bacteria, Enterococcus spp. and Staphylococcus spp. in wastewater sewerage biofilm. In Journal of Global Antimicrobial Resistance, 2018, vol. 14, p. 145-151. (2017: 2.022 - IF, Q3 - JCR, 0.658 - SJR, Q2 - SJR). ISSN 2213-7165. Dostupné na: https://doi.org/10.1016/j.jgar.2018.03.008

Citácie:
1. [1.1] GIONCHETTA, G. - FILLOL, M. - LóPEZ, N. - KASSOTAKI, E. - SàNCHEZ-MELSIó, A. - GUTIéRREZ, C. - GUTIéRREZ, O. - BALCáZAR, J.L. - BORREGO, C.M. Impact of nitrate addition on the resistome and mobilome from a full-scale sewer. In CHEMICAL ENGINEERING JOURNAL. ISSN 1385-8947, JUL 1 2022, vol. 439., Registrované v: WOS
2. [1.1] MOKARRAM, M. - POURGHASEMI, H.R. - HUANG, K. - ZHANG, H.C. Investigation of water quality and its spatial distribution in the Kor River basin, Fars province, Iran. In ENVIRONMENTAL RESEARCH. ISSN 0013-9351, MAR 2022, vol. 204, C., Registrované v: WOS

ADMA21 LICHVARIKOVÁ, A. - ŠOLTYS, Katarína - SZEMEŠ, T. - SLOBODNÍKOVÁ, Lívia - BUKOVSKÁ, Gabriela - TURŇA, Ján - DRAHOVSKÁ, H.**. Characterization of Clinical and Carrier Streptococcus agalactiae and Prophage Contribution to the Strain Variability. In Viruses, 2020, vol. 12, p. 1323. (2019: 3.816 - IF, Q2 - JCR, 1.633 - SJR, Q1 - SJR). ISSN 1999-4915. Dostupné na: https://doi.org/10.3390/v12111323

Citácie:
1. [1.1] AMARAL, J.R.V. - RAMOS, R.T.J. - ARAUJO, F.A. - KATO, R.B. - ABURJAILE, F.F. - SOARES, S.D. - GOES-NETO, A. - DA COSTA, M.M. - AZEVEDO, V. - BRENIG, B. - DE OLIVEIRA, S.S. - ROSADO, A.S. Bacteriocin Producing Streptococcus agalactiae Strains Isolated from Bovine Mastitis in Brazil. In MICROORGANISMS. MAR 2022, vol. 10, no. 3., Registrované v: WOS
2. [1.1] BANAEI, H. - BAFROEE, A.S.T. - AMINI, K. Common Colonization Genes Profiling and BOX-PCR Based Genotyping of Streptococcus agalactiae from Pregnant Women in Tehran, Iran. In JUNDISHAPUR JOURNAL OF MICROBIOLOGY. ISSN 2008-3645, FEB 2022, vol. 15, no. 2., Registrované v: WOS
3. [1.1] CHAIB, A. - CLAISSE, O. - DELBARRE, E. - BOSVIEL, J. - LE MARREC, C. Assessment of the lysogenic status in the lactic acid bacterium O. oeni during the spontaneous malolactic fermentation of red wines. In FOOD MICROBIOLOGY. ISSN 0740-0020, MAY 2022, vol. 103., Registrované v: WOS
4. [1.1] DRULIS-KAWA, Z. - AUGUSTYNIAK, D. Special Issue: Phage-Bacteria Interplay in Health and Disease. In VIRUSES-BASEL. MAY 2022, vol. 14, no. 5., Registrované v: WOS

ADMA22 MAJTÁNOVÁ, Nora** - KRISKOVA, P. - KERI, P. - FELLNER, Z. - MAJTÁN, Juraj - KOLAR, P. Herpes simplex keratitis in patients with SARS-CoV-2 infection: a series of five cases. In Medicina, 2021, vol. 57, p. 412. (2020: 2.430 - IF, Q2 - JCR, 0.530 - SJR, Q3 - SJR). ISSN 1010-660X. Dostupné na: https://doi.org/10.3390/medicina57050412

Citácie:
1. [1.1] ABDOLI, A. - FALAHI, S. - KENARKOOHI, A. COVID-19-associated opportunistic infections: a snapshot on the current reports. In CLINICAL AND EXPERIMENTAL MEDICINE. ISSN 1591-8890, AUG 2022, vol. 22, no. 3, p. 327-346., Registrované v: WOS
2. [1.1] AL-NAMAEH, M. Ocular manifestations of COVID-19. In THERAPEUTIC ADVANCES IN OPHTHALMOLOGY. ISSN 2515-8414, APR 2022, vol. 14., Registrované v: WOS
3. [1.1] BAJ, J. - FORMA, A. - TERESINSKA, B. - TYCZYNSKA, M. - ZEMBALA, J. - JANUSZEWSKI, J. - FLIEGER, J. - BUSZEWICZ, G. - TERESINSKI, G. How Does SARS-CoV-2 Affect Our Eyes-What Have We Learnt So Far about the Ophthalmic Manifestations of COVID-19?. In JOURNAL OF CLINICAL MEDICINE. JUN 2022, vol. 11, no. 12., Registrované v: WOS
4. [1.1] CHALOULIS, S.K. - MOUSTERIS, G. - TSAOUSIS, K.T. Incidence and Risk Factors of Bilateral Herpetic Keratitis: 2022 Update. In TROPICAL MEDICINE AND INFECTIOUS DISEASE. JUN 2022, vol. 7, no. 6., Registrované v: WOS
5. [1.1] DAS, N. - DAS, J. - PAL, D. Stromal and endothelial herpes simplex virus keratitis reactivation in the convalescent period of COVID-19-A case report. In INDIAN JOURNAL OF OPHTHALMOLOGY. ISSN 0301-4738, APR 2022, vol. 70, no. 4, p. 1410-1412., Registrované v: WOS
6. [1.1] HEBERT, M. - BOUHOUT, S. - VADBONCOEUR, J. - AUBIN, M.J. Recurrent and De

Novo Toxoplasmosis Retinochoroiditis following Coronavirus Disease 2019 Infection or Vaccination. In VACCINES. OCT 2022, vol. 10, no. 10., Registrované v: WOS
7. [1.1] SANTANA, S.S.Q. - SANCHEZ, O.A. - QUIGNON, S.A. - QUIGNON, T.A. Ocular manifestations of COVID-19. In MEDISUR-REVISTA DE CIENCIAS MEDICAS DE CIENFUEGOS. ISSN 1727-897X, NOV-DEC 2022, vol. 20, no. 6, p. 1169-1178., Registrované v: WOS
8. [1.1] UNG, L. - CHODOSH, J. COVID-19 and the eye: alternative facts The 2022 Bowman Club, David L. Easty lecture. In BMJ OPEN OPHTHALMOLOGY. ISSN 2397-3269, MAY 2022, vol. 7, no. 1., Registrované v: WOS

ADMA23 MELNIČÁKOVÁ, Jana - DERDÁKOVÁ, Markéta - BARÁK, Imrich. A system to simultaneously detect tick-borne pathogens based on the variability of the 16S ribosomal genes. In Parasites & vectors, 2013, vol. 6, no. 1, article no. 269, 12pp. (2012: 3.246 - IF, Q1 - JCR, 1.224 - SJR, Q1 - SJR). ISSN 1756-3305. Dostupné na: https://doi.org/10.1002/jobm.200900227

Citácie:

1. [1.1] SCHILLACI, Martino - RAIO, Aida - SILLO, Fabiano - ZAMPIERI, Elisa - MAHMOOD, Shahid - ANJUM, Muzammil - KHALID, Azeem - CENTRITTO, Mauro. Pseudomonas and Curtobacterium Strains from Olive Rhizosphere Characterized and Evaluated for Plant Growth Promoting Traits. In PLANTS-BASEL. SEP 2022, vol. 11, no. 17. Dostupné na: https://doi.org/10.3390/plants11172245, Registrované v: WOS

ADMA24 MELNIČÁKOVÁ, Jana - BEČÁROVÁ, Zuzana - MAKROCZYOVÁ, Jana - BARÁK, Imrich. Analysis of the Bacillus cereus SpoIIS antitoxin-toxin system reveals its three-component nature. In Frontiers in Microbiology, 2015, vol. 6, 808. (2014: 3.989 - IF, Q1 - JCR, 1.879 - SJR, Q1 - SJR). (2015 - SCOPUS). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2015.00808

Citácie:

1. [1.1] FURUSAWA, G. - DIYANA, T. - LAU, N.S. Metabolic strategies of dormancy of a marine bacterium Microbulbifer aggregans CCB-MM1: Its alternative electron transfer chain and sulfate-reducing pathway. In GENOMICS. ISSN 0888-7543, JAN 2022, vol. 114, no. 1, p. 443-455. Dostupné na: https://doi.org/10.1016/j.ygeno.2021.02.024, Registrované v: WOS

ADMA25 MUCHOVÁ, Katarína - CHROMÍKOVÁ, Zuzana - VALENČÍKOVÁ, Romana - BARÁK, Imrich**. Interaction of the Morphogenic Protein RodZ with the Bacillus subtilis Min System. In Frontiers in Microbiology, 2018, vol. 8, p. 1-10. (2017: 4.019 - IF, Q2 - JCR, 1.699 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2017.02650

Citácie:

1. [1.1] CENTENO-LEIJA, S. - ESPINOSA-BARRERA, L. - VELAZQUEZ-CRUZ, B. - CARDENAS-CONEJO, Y. - VIRGEN-ORTIZ, R. - VALENCIA-CRUZ, G. - SAENZ, R.A. - MARIN-TOVAR, Y. - GOMEZ-MANZO, S. - HERNANDEZ-OCHOA, B. - ROCHA-RAMIREZ, L.M. - ZATARAIN-PALACIOS, R. - OSUNA-CASTRO, J.A. - LOPEZ-MUNGUIA, A. - SERRANO-POSADA, H. Mining for novel cyclomaltodextrin glucanotransferases unravels the carbohydrate metabolism pathway via cyclodextrins in Thermoanaerobacterales. In SCIENTIFIC REPORTS. ISSN 2045-2322, JAN 14 2022, vol. 12, no. 1., Registrované v: WOS

ADMA26 OHRADANOVA-REPIC, A. - MACHACEK, C. - CHARVET, C. - LAGER, F. - LE ROUX, D. - PLATZER, R. - LEKSA, Vladimír - MITULOVIC, G. - BURKARD, T.R. - ZLABINGER, G. - FISCHER, M.B. - FEUILLET, V. - RENAULT, G. - BLÜML, S. - BENKO, M. - SUCHANEK, M. - HUPPA, J.B. - MATSUYAMA, T. - CAVACO-PAULO, A. - BISMUTH, G. - STOCKINGER, H. Extracellular purine metabolism is the switchboard of immunosuppressive macrophages and a novel target to treat diseases with macrophage imbalances. In Frontiers in Immunology, 2018, vol. 9, no. 852. (2017: 5.511 - IF, Q1 - JCR, 2.803 - SJR, Q1 - SJR). ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2018.00852

Citácie:

1. [1.1] FEARON, U. - HANLON, M.M. - FLOUDAS, A. - VEALE, D.J. Cellular metabolic adaptations in rheumatoid arthritis and their therapeutic implications. In NATURE REVIEWS RHEUMATOLOGY. ISSN 1759-4790, JUL 2022, vol. 18, no. 7, p. 398-414., Registrované v: WOS
2. [1.1] LIAO, X.D. - CHANG, E.G. - TANG, X.M. - WATANABE, I. - ZHANG, R.L. - JEONG, H.W. - ADAMS, R.H. - JAIN, M.K. Cardiac macrophages regulate isoproterenol-induced Takotsubo-like cardiomyopathy. In JCI INSIGHT. FEB 8 2022, vol. 7, no. 3., Registrované v: WOS
3. [1.1] POPOV, A. - KLIMOVICH, A. - STYSHOVA, O. - TSYBULSKY, A. - HUSHPULIAN, D. - OSIPYANTS, A. - KHRISTICHENKO, A. - KAZAKOV, S. - AHUJA, M. - KAIDERY, N. - THOMAS, B. - TISHKOV, V. - BROWN, A. - GAZARYAN, I. - POLOZNIKOV, A. Probable Mechanisms of Doxorubicin Antitumor Activity Enhancement by Ginsenoside Rh2. In MOLECULES. FEB 2022, vol. 27, no. 3., Registrované v: WOS
4. [1.1] STEINZ, M.M. - EZDOGLIAN, A. - KHODADUST, F. - MOLTHOFF, C.F.M. - SRINIVASARAO, M. - LOW, P.S. - ZWEZERIJNEN, G.J.C. - YAQUB, M. - BEAINO, W. -

WINDHORST, A.D. - TAS, S.W. - JANSEN, G. - VAN DER LAKEN, C.J. Folate Receptor Beta for Macrophage Imaging in Rheumatoid Arthritis. In FRONTIERS IN IMMUNOLOGY. ISSN 1664-3224, FEB 2 2022, vol. 13., Registrované v: WOS
5. [1.1] YANG, Y.L. - HOU, J.X. - LIU, J.Y. - BHUSHAN, S. - WU, G.S. The origins of resident macrophages in mammary gland influence the tumorigenesis of breast cancer. In INTERNATIONAL IMMUNOPHARMACOLOGY. ISSN 1567-5769, SEP 2022, vol. 110., Registrované v: WOS

ADMA27 PEDROSA GOMES, Marcelo** - AKIYAMA KITAMURA, Rafael Shinji - ZORMAN MARQUES, Raizza - LOCATELLI BARBATO, Marcello - ZÁMOCKÝ, Marcel. The Role of H2O2-Scavenging Enzymes (Ascorbate Peroxidase and Catalase) in the Tolerance of Lemna minor to Antibiotics: Implications for Phytoremediation. In Antioxidants, 2022, vol. 11, art. no. 151. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox11010151 (APVV-20-0257 : Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách)

Citácie:

1. [1.1] KHAN, W.U.D. - WEI, X.Y. - ALI, H.H. - ZULFIQAR, F. - CHEN, J.J. - IQBAL, R. - ZAHEER, M.S. - ALI, B. - GHAFOOR, S. - RABIYA, U.E. - WAQAS, M. - GHAFFAR, R. - SOUFAN, W. - EL SABAGH, A. Investigating the role of bentonite clay with different soil amendments to minimize the bioaccumulation of heavy metals in Solanum melongena L. under the irrigation of tannery wastewater. In FRONTIERS IN PLANT SCIENCE. ISSN 1664-462X, SEP 29 2022, vol. 13., Registrované v: WOS

ADMA28 RANJANI, V. - JANEČEK, Štefan - CHAI, K.P. - SHAHIR, S. - ZALIHA, R.N. - RAHMAN, R.A. - CHAN, K.G. - GOH, K.M. Protein engineering of selected residues from conserved sequence regions of a novel Anoxybacillus α-amylase. In Scientific Reports, 2014, vol. 4, p. 5850. (2013: 5.078 - IF, Q1 - JCR, 1.886 - SJR, Q1 - SJR). (2014 - WOS, Scopus). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/srep05850

Citácie:

1. [1.1] KLEINWORT, K.J.H. - WEIGAND, M. - HOFFMANN, L. - DEGROOTE, R.L. - DIETRICH, R. - MäRTLBAUER, E. - HAUCK, S.M. - DEEG, C.A. Pudding Proteomics: Cyclomaltodextrin Glucanotransferase and Microbial Proteases Can Liquefy Extended Shelf Life Dairy Products. In METABOLITES. MAR 2022, vol. 12, no. 3. Dostupné na: https://doi.org/10.3390/metabo12030254, Registrované v: WOS
2. [1.1] LEKAKARN, H. - BUNTERNGSOOK, B. - PAJONGPAKDEEKUL, N. - PRONGJIT, D. - CHAMPREDA, V. A novel low temperature active maltooligosaccharides-forming amylase from Bacillus koreensis HL12 as biocatalyst for maltooligosaccharide production. In 3 BIOTECH. ISSN 2190-572X, JUN 2022, vol. 12, no. 6. Dostupné na: https://doi.org/10.1007/s13205-022-03188-1, Registrované v: WOS
3. [1.1] POUYAN, S. - LAGZIAN, M. - SANGTARASH, M.H. Enhancing thermostabilization of a newly discovered α-amylase from Bacillus cereus GL96 by combining computer-aided directed evolution and site-directed mutagenesis. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, FEB 1 2022, vol. 197, p. 12-22. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2021.12.057, Registrované v: WOS
4. [1.1] SHARMA, V.K. - SHARMA, M. - USMANI, Z. - PANDEY, A. - SINGH, B.N. - TABATABAEI, M. - GUPTA, V.K. Tailored enzymes as next-generation food-packaging tools. In TRENDS IN BIOTECHNOLOGY. ISSN 0167-7799, AUG 2022, vol. 40, no. 8, p. 1004-1017. Dostupné na: https://doi.org/10.1016/j.tibtech.2022.01.009, Registrované v: WOS
5. [1.1] YU, H.R. - MA, S. - LI, Y.W. - DALBY, P.A. Hot spots-making directed evolution easier. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, MAY-JUN 2022, vol. 56. Dostupné na: https://doi.org/10.1016/j.biotechadv.2022.107926, Registrované v: WOS

ADMA29 REMENÁR, Matej - KAMLÁROVÁ, Anna - HARICHOVÁ, Janka - ZÁMOCKÝ, Marcel - FERIANC, Peter**. The heavy-metal resistance determinant of newly isolated bacterium from a nickel-contaminated soil in southwest Slovakia. In Polish Journal of Microbiology, 2018, vol. 67, iss. 2, p. 191-201. (2017: 0.784 - IF, Q4 - JCR, 0.328 - SJR, Q3 - SJR). ISSN 1733-1331. Dostupné na: https://doi.org/10.21307/pjm-2018-022

Citácie:

1. [1.1] JAROSLAWIECKA, A.K. - PIOTROWSKA-SEGET, Z. The Effect of Heavy Metals on Microbial Communities in Industrial Soil in the Area of Piekary Slaskie and Bukowno (Poland). In MICROBIOLOGY RESEARCH. SEP 2022, vol. 13, no. 3, p. 626-642., Registrované v: WOS
2. [1.1] PANDE, V. - PANDEY, S.C. - SATI, D. - BHATT, P. - SAMANT, M. Microbial Interventions in Bioremediation of Heavy Metal Contaminants in Agroecosystem. In FRONTIERS IN MICROBIOLOGY. MAY 6 2022, vol. 13., Registrované v: WOS

ADMA30 SAVELLI, B. - LI, Q. - WEBER, M. - JEMMAT, A.M. - ROBITAILLE, A. - ZÁMOCKÝ, Marcel -

MATHÉ, C. - DUNAND, C. RedoxiBase: a database for ROS homeostasis regulated proteins. In Redox Biology, 2019, vol. 26, no. 101247. (2018: 7.793 - IF, Q1 - JCR, 2.166 - SJR, Q1 - SJR). ISSN 2213-2317. Dostupné na: https://doi.org/10.1016/j.redox.2019.101247

Citácie:

1. [1.1] ADAMO, M. - COMTET-MARRE, S. - BUTTNER, E. - KELLNER, H. - LUIS, P. - VALLON, L. - PREGO, R. - HOFRICHTER, M. - GIRLANDA, M. - PEYRET, P. - MARMEISSE, R. Fungal dye-decolorizing peroxidase diversity: roles in either intra- or extracellular processes. In APPLIED MICROBIOLOGY AND BIOTECHNOLOGY. ISSN 0175-7598, APR 2022, vol. 106, no. 8, p. 2993-3007., Registrované v: WOS

2. [1.1] ATHAMNEH, K. - ALNEYADI, A. - ALSADIK, A. - WONG, T.S. - ASHRAF, S.S. Efficient degradation of various emerging pollutants by wild type and evolved fungal DyP4 peroxidases. In PLOS ONE. ISSN 1932-6203, JAN 13 2022, vol. 17, no. 1., Registrované v: WOS

3. [1.1] BELL, E.L. - FINNIGAN, W. - FRANCE, S.P. - GREEN, A.P. - HAYES, M.A. - HEPWORTH, L.J. - LOVELOCK, S.L. - NIIKURA, H. - OSUNA, S. - ROMERO, E. - RYAN, K.S. - TURNER, N.J. - FLITSCH, S.L. Biocatalysis. In NATURE REVIEWS METHODS PRIMERS. JUN 24 2021, vol. 1, no. 1., Registrované v: WOS

4. [1.1] CORDAS, C.M. - NGUYEN, G.S. - VALERIO, G.N. - JONSSON, M. - SOLLNER, K. - AUNE, I.H. - WENTZEL, A. - MOURA, J.J.G. Discovery and characterization of a novel Dyp-type peroxidase from a marine actinobacterium isolated from Trondheim fjord, Norway. In JOURNAL OF INORGANIC BIOCHEMISTRY. ISSN 0162-0134, JAN 2022, vol. 226., Registrované v: WOS

5. [1.1] GUO, W. - CHEN, W.J. - GUO, N. - ZANG, J. - LIU, L.F. - ZHANG, Z.H. - DAI, H.Y. MdWRKY61 positively regulates resistance to Colletotrichum siamense in apple (Malus domestica). In PHYSIOLOGICAL AND MOLECULAR PLANT PATHOLOGY. ISSN 0885-5765, JAN 2022, vol. 117., Registrované v: WOS

6. [1.1] HOFMANN, A. - WIENKOOP, S. - LUTHJE, S. Hypoxia-Induced Aquaporins and Regulation of Redox Homeostasis by a Trans-Plasma Membrane Electron Transport System in Maize Roots. In ANTIOXIDANTS. MAY 2022, vol. 11, no. 5., Registrované v: WOS

7. [1.1] LARRIBA, E. - NICOLAS-ALBUJER, M. - SANCHEZ-GARCIA, A.B. - PEREZ-PEREZ, J.M. Identification of Transcriptional Networks Involved in De Novo Organ Formation in Tomato Hypocotyl Explants. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. DEC 2022, vol. 23, no. 24., Registrované v: WOS

8. [1.1] RESL, P. - BUJOLD, A.R. - TAGIRDZHANOVA, G. - MEIDL, P. - RALLO, S.F. - KONO, M. - FERNANDEZ-BRIME, S. - GUDMUNDSSON, H. - ANDRESSON, O.S. - MUGGIA, L. - MAYRHOFER, H. - MCCUTCHEON, J.P. - WEDIN, M. - WERTH, S. - WILLIS, L.M. - SPRIBILLE, T. Large differences in carbohydrate degradation and transport potential among lichen fungal symbionts. In NATURE COMMUNICATIONS. MAY 12 2022, vol. 13, no. 1., Registrované v: WOS

9. [1.1] SAN CLEMENTE, H. - KOLKAS, H. - CANUT, H. - JAMET, E. Plant Cell Wall Proteomes: The Core of Conserved Protein Families and the Case of Non-Canonical Proteins. In INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. APR 2022, vol. 23, no. 8., Registrované v: WOS

10. [1.1] VARGAS-MAYA, N.I. - OLMEDO-MONFIL, V. - RAMIREZ-PRADO, J.H. - REYES-CORTES, R. - PADILLA-VACA, F. - FRANCO, B. Catalases in the pathogenesis of Sporothrix schenckii research. In PEERJ. ISSN 2167-8359, DEC 7 2022, vol. 10., Registrované v: WOS

11. [1.1] YAYCI, A. - BACHMANN, N. - DIRKS, T. - HOFMANN, E. - BANDOW, J.E. Characterization of three novel DyP-type peroxidases from Streptomyces chartreusis NRRL 3882. In JOURNAL OF APPLIED MICROBIOLOGY. ISSN 1364-5072, OCT 2022, vol. 133, no. 4, p. 2417-2429., Registrované v: WOS

ADMA31 SELIM, S.A. - AHMED, S.F. - ABDEL AZIZ, M. H. - ZAKARIA, A.M. - KLENA, J.D. - PANGALLO, Domenico. Prevalence and characterization of shiga-toxin O157:H7 and non-O157:H7 enterohemorrhagic Escherichia coli isolated from different sources. In Biotechnology & Biotechnological Equipment, 2013, vol. 27, p. 3834 - 3842. (2012: 0.622 - IF, Q4 - JCR, 0.234 - SJR). (2013 - WOS, SCOPUS). ISSN 1310-2818. Dostupné na: https://doi.org/10.5504/BBEQ.2013.0031

Citácie:

1. [1.1] BELETE, M.A. - DEMLIE, T.B. - CHEKOLE, W.S. - TESSEMA, T.S. Molecular identification of diarrheagenic Escherichia coli pathotypes and their antibiotic resistance patterns among diarrheic children and in contact calves in Bahir Dar city, Northwest Ethiopia. In PLOS ONE. ISSN 1932-6203, SEP 28 2022, vol. 17, no. 9. Dostupné na: https://doi.org/10.1371/journal.pone.0275229, Registrované v: WOS

2. [1.1] EL-SAYED, D. - ELSAYED, T. - AMIN, N. - AL-SHAHABY, A. - GODA, H. Evaluating the Phenotypic and Genomic Characterization of Some Egyptian Phages Infecting Shiga

Toxin-Producing Escherichia coli O157:H7 for the Prospective Application in Food Bio-Preservation. In BIOLOGY-BASEL. AUG 2022, vol. 11, no. 8. Dostupné na: https://doi.org/10.3390/biology11081180, Registrované v: WOS

3. [1.2] ALHARBI, Mona G. - AL-HINDI, Rashad R. - ESMAEL, Ahmed - ALOTIBI, Ibrahim A. - AZHARI, Sheren A. - ALSEGHAYER, Mazen S. - TEKLEMARIAM, Addisu D. The "Big Six": Hidden Emerging Foodborne Bacterial Pathogens. In Tropical Medicine and Infectious Disease, 2022-11-01, 7, 11, pp. Dostupné na: https://doi.org/10.3390/tropicalmed7110356, Registrované v: SCOPUS

4. [1.2] BM, Olowe - JO, Arogbodo. Molecular identification of virulence and antibiotic-resistant genes in Escherichia coli O157 and non-O157 recovered from water samples. In Microbes and Infectious Diseases, 2022-05-01, 3, 2, pp. 348-359. ISSN 26824132. Dostupné na: https://doi.org/10.21608/MID.2021.74664.1148, Registrované v: SCOPUS

5. [1.2] NINGRUM, S. G. - KHAERUNNISA, I. - SUPRIYONO - WIBAWAN, I. W.T. MOLECULAR DETECTION AND PHYLOGENETIC ANALYSIS OF A SHIGA TOXIN-PRODUCING STRAIN ESCHERICHIA COLI (PARTIAL RFBE AND FLICinfH7/inf GENE), SEROTYPE O157:H7 ISOLATED FROM A LIVING CHICKEN OF A TRADITIONAL MARKET IN INDONESIA. In Bulgarian Journal of Veterinary Medicine, 2022-09-01, 25, 3, pp. 500-506. ISSN 13111477. Dostupné na: https://doi.org/10.15547/bjvm.2020-0070, Registrované v: SCOPUS

6. [1.2] SHAMSI, Shamsi S. - AL-BASHEER, Amira A. - ALFAGE, Fatima S. - ELZEN, Abdelkader A. - AHMAD, Khadija M. Prevalence of acid-resistant Verotoxin-producing Escherichia coli associated with diarrhea. In Acta Microbiologica Hellenica, 2022-01-01, 67, 1, pp. 49-57. ISSN 04389573., Registrované v: SCOPUS

ADMA32 SIDARI, R.** - ŽENIŠOVÁ, K. - TOBOLKOVÁ, B. - BELAJOVÁ, E. - CABICAROVÁ, T. - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PLANÝ, Matej - KUCHTA, T. - PANGALLO, Domenico**. Wine yeasts selection: laboratory characterization and protocol review. In Microorganisms, 2021, vol. 9, no. 2223. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms9112223

Citácie:

1. [1.1] KREGIEL, D. - PAWLIKOWSKA, E. - ANTOLAK, H. - DZIEKONSKA-KUBCZAK, U. - PIELECH-PRZYBYLSKA, K. Exploring Use of the Metschnikowia pulcherrima Clade to Improve Properties of Fruit Wines. In FERMENTATION-BASEL. JUN 2022, vol. 8, no. 6., Registrované v: WOS

2. [1.1] SIESTO, G. - CORBO, M.R. - PIETRAFESA, R. - SINIGAGLIA, M. - ROMANO, P. - BEVILACQUA, A. Screening of Saccharomyces and Non-Saccharomyces Wine Yeasts for Their Decarboxylase Activity of Amino Acids. In FOODS. NOV 2022, vol. 11, no. 22., Registrované v: WOS

ADMA33 STANO, Matej - BEKE, Gábor - KĽUČÁR, Ľuboš. viruSITE-integrated database for viral genomics. In Database, 2016, art. no. baw162. (2015: 2.627 - IF, Q1 - JCR, 1.491 - SJR, Q1 - SJR). ISSN 1758-0463. Dostupné na: https://doi.org/10.1093/database/baw162

Citácie:

1. [1.1] CHIU, J.K.H. - ONG, R.T.H. Clustering biological sequences with dynamic sequence similarity threshold. In BMC BIOINFORMATICS. ISSN 1471-2105, MAR 30 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12859-022-04643-9, Registrované v: WOS

2. [1.1] DASARI, C.M. - BHUKYA, R. MapReduce paradigm: DNA sequence clustering based on repeats as features. In EXPERT SYSTEMS. ISSN 0266-4720, JAN 2022, vol. 39, no. 1. Dostupné na: https://doi.org/10.1111/exsy.12827, Registrované v: WOS

3. [1.1] GARCIA-FLORES, V. - ROMERO, R. - XU, Y. - THEIS, K. - ARENAS-HERNANDEZ, M. - MILLER, D. - PEYVANDIPOUR, A. - GALAZ, J. - LEVENSON, D. - BHATTI, G. - GERSHATER, M. - PUSOD, E. - KRACHT, D. - FLOROVA, V. - LENG, Y.Z. - TAO, L. - FAUCETT, M. - PARA, R. - HSU, C.D. - ZHANG, G. - TARCA, A. - PIQUE-REGI, R. - GOMEZ-LOPEZ, N. Maternal-fetal immune responses in pregnant women infected with SARS-CoV-2. In NATURE COMMUNICATIONS. JAN 18 2022, vol. 13, no. 1. Dostupné na: https://doi.org/10.1038/s41467-021-27745-z, Registrované v: WOS

4. [1.1] GIRGIS, H.Z. MeShClust v3.0: high-quality clustering of DNA sequences using the mean shift algorithm and alignment-free identity scores. In BMC GENOMICS. ISSN 1471-2164, JUN 6 2022, vol. 23, no. 1. Dostupné na: https://doi.org/10.1186/s12864-022-08619-0, Registrované v: WOS

5. [1.1] KUMAR, S. - KUMAR, G.S. - MAITRA, S.S. - MALY, P. - BHARADWAJ, S. - SHARMA, P. - DWIVEDI, V.D. Viral informatics: bioinformatics-based solution for managing viral infections. In BRIEFINGS IN BIOINFORMATICS. ISSN 1467-5463, SEP 20 2022, vol. 23, no. 5. Dostupné na: https://doi.org/10.1093/bib/bbac326, Registrované v: WOS

6. [1.1] POURHASANZADE, F. - IYER, S. - TJENDRA, J. - LANDOR, L. - VåGE, S.

Individual-based model highlights the importance of trade-offs for virus-host population dynamics and long-term co-existence. In PLOS COMPUTATIONAL BIOLOGY. ISSN 1553-734X, JUN 2022, vol. 18, no. 6. Dostupné na: https://doi.org/10.1371/journal.pcbi.1010228, Registrované v: WOS

7. [1.1] PRIVITERA, G.F. - ALAIMO, S. - FERRO, A. - PULVIRENTI, A. Virus finding tools: current solutions and limitations. In BRIEFINGS IN BIOINFORMATICS. ISSN 1467-5463, JUL 18 2022, vol. 23, no. 4. Dostupné na: https://doi.org/10.1093/bib/bbac235, Registrované v: WOS

8. [1.1] WANG, C.C. - HUYAN, T. - ZHOU, X.J. - ZHANG, X.S. - DUAN, S.Y. - GAO, S. - JIANG, S.F. - LI, Q. Development of Single-Cell Transcriptomics and Its Application in COVID-19. In VIRUSES-BASEL. OCT 2022, vol. 14, no. 10. Dostupné na: https://doi.org/10.3390/v14102271, Registrované v: WOS

9. [1.2] OBEREMOK, V. V. - ANDREEVA, O. A. - LAIKOVA, K. V. - NOVIKOV, I. A. - KUBYSHKIN, A. V. Post-genomic platform for development of oligonucleotide vaccines against RNA viruses: diamond cuts diamond. In Inflammation Research, 2022-08-01, 71, 7-8, pp. 729-739. ISSN 10233830. Dostupné na: https://doi.org/10.1007/s00011-022-01582-2, Registrované v: SCOPUS

10. [1.2] ZHANG, Qi Ya - KE, Fei - GUI, Lang - ZHAO, Zhe. Recent insights into aquatic viruses: Emerging and reemerging pathogens, molecular features, biological effects, and novel investigative approaches. In Water Biology and Security, 2022-11-01, 1, 4, pp. Dostupné na: https://doi.org/10.1016/j.watbs.2022.100062, Registrované v: SCOPUS

ADMA34 SUN, Y.-Q. - BUSCHE, T. - RUCKERT, C. - PAULUS, C. - REBETS, Y. - NOVÁKOVÁ, Renáta - KALINOWSKI, J. - LUZHETSKYY, A. - KORMANEC, Ján - SEKUROVA, O.N. - ZOTCHEV, S.B. Development of a biosensor concept to detect the production of cluster-specific secondary metabolites. In ACS Synthetic Biology, 2017, vol. 6, p. 1026–1033. (2016: 5.382 - IF, Q1 - JCR, 2.793 - SJR, Q1 - SJR). ISSN 2161-5063. Dostupné na: https://doi.org/10.1021/acssynbio.6b00353

Citácie:

1. [1.1] ARUN, K.B. - SINDHU, R. - ALEX, D. - BINOD, P. - PUGHAZHENDI, A. - JOSEPH, T.C. - PANDEY, A. - KUDDUS, M. - PILLAI, S. - EMMANUAL, S. - AWASTHI, M.K. - MADHAVAN, A. Bacterial bioactive metabolites as therapeutic agents: From production to action. In SUSTAINABLE CHEMISTRY AND PHARMACY. JUN 2022, vol. 27. Dostupné na: https://doi.org/10.1016/j.scp.2022.100650, Registrované v: WOS

2. [1.1] HUI, C.Y. - GUO, Y. - GAO, C.X. - LI, H. - LIN, Y.R. - YUN, J.P. - CHEN, Y.T. - YI, J. A tailored indigoidine-based whole-cell biosensor for detecting toxic cadmium in environmental water samples. In ENVIRONMENTAL TECHNOLOGY & INNOVATION. ISSN 2352-1864, AUG 2022, vol. 27. Dostupné na: https://doi.org/10.1016/j.eti.2022.102511, Registrované v: WOS

3. [1.1] SHI, S.Y. - XIE, Y.H. - WANG, G.L. - LUO, Y.Z. Metabolite-based biosensors for natural product discovery and overproduction. In CURRENT OPINION IN BIOTECHNOLOGY. ISSN 0958-1669, JUN 2022, vol. 75. Dostupné na: https://doi.org/10.1016/j.copbio.2022.102699, Registrované v: WOS

4. [1.2] BECK, Charlotte - BLIN, Kai - GREN, Tetiana - JIANG, Xinglin - MOHITE, Omkar Satyavan - PALAZZOTTO, Emilia - TONG, Yaojun - CHARUSANTI, Pep - WEBER, Tilmann. Metabolic Engineering of Filamentous Actinomycetes. In Metabolic Engineering: Concepts and Applications: Volume 13a and 13b, 2021-01-01, 13, pp. 653-688. Dostupné na: https://doi.org/10.1002/9783527823468.ch17, Registrované v: SCOPUS

5. [1.2] TAY, Song Buck - ANG, Ee Lui. In Vivo Biosensors for Directed Protein Evolution. In Protein Engineering: Tools and Applications, 2021-01-01, pp. 29-55. Dostupné na: https://doi.org/10.1002/9783527815128.ch2, Registrované v: SCOPUS

ADMA35 SZEP, Z. - MAJERNIKOVA, Alexandra - RYCHLY, Boris - MAJTÁN, Juraj**. Pleomorphic hyalinizing angiectatic tumor of soft parts with unusual lipoma-like clinical morphology. In Indian Journal of Dermatology, Venereology and Leprology, 2018, vol. 84, p. 619-621. (2017: 2.229 - IF, Q2 - JCR, 0.445 - SJR, Q3 - SJR). ISSN 0378-6323. Dostupné na: https://doi.org/10.4103/ijdvl.IJDVL_693_17

Citácie:

1. [1.2] DA SILVA, Eveline Cristina - ABREU, Rodrigo Fonseca - NASCIMENTO, Antônio Geraldo - ANDRADE, Louise De Brot. Pleomorphic hyalinizing angiectatic tumor of the vulva: literature review based on a rare presentation. In Autopsy and Case Reports, 2022-01-01, 12, pp. Dostupné na: https://doi.org/10.4322/acr.2021.353, Registrované v: SCOPUS

ADMA36 ŠIMONOVIČOVÁ, A. - VOJTKOVÁ, Hana - NOSALJ, Sanja - PIECKOVÁ, E. - ŠVEHLÁKOVÁ, H. - KRAKOVÁ, Lucia - DRAHOVSKÁ, H. - STALMACHOVÁ, B. - KUČOVÁ, K. - PANGALLO, Domenico**. Aspergillus niger environmental isolates and their specific diversity through metabolite profiling. In Frontiers in Microbiology, 2021, vol. 12, no. 658010. (2020: 5.640 - IF, Q1 - JCR, 1.701 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2021.658010

Citácie:
1. [1.1] ATALLAH, O.O. - MAZROU, Y.S.A. - ATIA, M.M. - NEHELA, Y. - ABDELRHIM, A.S. - NADER, M.M. Polyphasic Characterization of Four Aspergillus Species as Potential Biocontrol Agents for White Mold Disease of Bean. In JOURNAL OF FUNGI. JUN 2022, vol. 8, no. 6., Registrované v: WOS
2. [1.1] SINGH, V. - WAHI, N. - GARG, G. - SINGH, A. - BHADAURIA, S. Ecological and genetical diversity of black fungus- Aspergillus sp. inhabiting stone monuments of Mughal dynasty in Agra (UP) analysed by RAPD method. In ARCHIVES OF PHYTOPATHOLOGY AND PLANT PROTECTION. ISSN 0323-5408, MAY 11 2022, vol. 55, no. 7, p. 815-832., Registrované v: WOS

ADMA37 VOZÁRIKOVÁ, V. - KUNOVÁ, Nina - BAUER, Jacob - FRANKOVSKÝ, Jozef - KOTRASOVÁ, Veronika - PROCHÁZKOVÁ, K. - DŽUGASOVÁ, Vladimíra - KUTEJOVÁ, Eva - PEVALA, Vladimír - NOSEK, J. - TOMAŠKA, Ľubomír**. Mitochondrial HMG-Box Containing Proteins: From Biochemical Properties to the Roles in Human Diseases. In Biomolecules : Open Access Journal, 2020, vol. 10, no. 1193. (2019: 4.082 - IF, Q2 - JCR, 1.614 - SJR, Q1 - SJR). ISSN 2218-273X. Dostupné na: https://doi.org/10.3390/biom10081193

Citácie:
1. [1.1] BARREIRO-ALONSO, A. - VIZOSO-VAZQUEZ, A. - LAMAS-MACEIRAS, M. - CERDAN, M.E. HMG Proteins from Molecules to Disease. In BIOMOLECULES. FEB 2022, vol. 12, no. 2., Registrované v: WOS
2. [1.1] SEIKE, H. - ISHIMORI, K. - WATANABE, A. - KIRYU, M. - HATAKEYAMA, S. - TANAKA, S. - YOSHIHARA, R. Two high-mobility group domains of MHG1 are necessary to maintain mtDNA in Neurospora crassa. In FUNGAL BIOLOGY. ISSN 1878-6146, NOV-DEC 2022, vol. 126, no. 11-12, p. 826-833., Registrované v: WOS

ADMA38 ZÁMOCKÝ, Marcel - TAFER, H. - CHOVANOVÁ, Katarína - LOPANDIC, Ksenija - KAMLÁROVÁ, Anna - OBINGER, C. Genome sequence of the filamentous soil fungus Chaetomium cochliodes reveals abundance of genes for heme enzymes from all peroxidase and catalase superfamilies. In BMC Genomics, 2016, vol. 17, p. 763. (2015: 3.867 - IF, Q1 - JCR, 2.348 - SJR, Q1 - SJR). ISSN 1471-2164. Dostupné na: https://doi.org/10.1186/s12864-016-3111-6

Citácie:
1. [1.1] LOURENçO, K.S. - COSTA, O.Y.D. - CANTARELLA, H. - KURAMAE, E.E. Ammonia-oxidizing bacteria and fungal denitrifier diversity are associated with N2O production in tropical soils. In SOIL BIOLOGY & BIOCHEMISTRY. ISSN 0038-0717, MAR 2022, vol. 166. Dostupné na: https://doi.org/10.1016/j.soilbio.2022.108563, Registrované v: WOS
2. [1.1] SMITH, J.A. - QUESADA, T. - ALAKE, G. - ANGER, N. Transcontinental Dispersal of Nonendemic Fungal Pathogens through Wooden Handicraft Imports. In MBIO. ISSN 2150-7511, AUG 30 2022, vol. 13, no. 4. Dostupné na: https://doi.org/10.1128/mbio.01075-22, Registrované v: WOS

ADMA39 ZÁMOCKÝ, Marcel** - KAMLÁROVÁ, Anna - MARESCH, D. - CHOVANOVÁ, Katarína - HARICHOVÁ, Janka - FURTMULLER, P.G. Hybrid heme peroxidases from rice blast fungus magnaporthe oryzae involved in defence against oxidative stress. In Antioxidants, 2020, vol. 9, no. E655. (2019: 5.014 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). (2020 - WOS, SCOPUS). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox9080655

Citácie:
1. [1.1] LIU, P.Q. - CAI, Y.S. - WANG, R.B. - LI, B.J. - WENG, Q.Y. Effect of Ethylenediaminetetraacetic acid (EDTA) on perillaldehyde-mediated regulation of postharvest Aspergillus flavus growth on peanuts. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, JAN 15 2022, vol. 154., Registrované v: WOS

ADMA40 ŽENIŠOVÁ, K. - CHOVANOVÁ, Katarína - CHEBEŇOVÁ-TURCOVSKÁ, V. - GODÁLOVÁ, Z. - KRAKOVÁ, Lucia - KUCHTA, T. - PANGALLO, Domenico - BREŽNÁ, Barbara. Mapping of wine yeast and fungal diversity in the Small Carpathian wine-producing region (Slovakia): evaluation of phenotypic, genotypic and culture-independent approaches. In Annals of Microbiology, 2014, vol. 64, p. 1819–1828. (2013: 1.039 - IF, Q4 - JCR, 0.438 - SJR, Q3 - SJR). ISSN 1590-4261. Dostupné na: https://doi.org/10.1007/s13213-014-0827-x

Citácie:
1. [1.1] GURAKAN, G.C. - AKTUNA, I. - SEYEDMONIR, E. Diversity of Wild Yeasts During Spontaneous Fermentation of Wines from Local Grape Varieties in Turkey. In AMERICAN JOURNAL OF ENOLOGY AND VITICULTURE. ISSN 0002-9254, OCT 1 2022, vol. 73, no. 4, p. 307-319. Dostupné na: https://doi.org/10.5344/ajev.2022.22001, Registrované v: WOS

ADMB Vedecké práce v zahraničných neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADMB01 CSÁDEROVÁ, Lucia - DEBREOVÁ, M. - RADVÁK, Peter - STANO, Matej - VREŠTIAKOVÁ,

Magdaléna - KOPÁČEK, Juraj - PASTOREKOVÁ, Silvia - ŠVASTOVÁ, Eliška. The effect of carbonic anhydrase IX on focal contacts during cell spreading and migration. In Frontiers in Physiology, 2013, vol. 4, no. 271, p. 1-12. (2012: 0.840 - SJR, Q2 - SJR). (2013 - SCOPUS). ISSN 1664-042X. Dostupné na: https://doi.org/10.3389/fphys.2013.00271 (APVV-0658-11 : Karbonická anhydráza IX ako funkčný komponent nádorovej progresie: úloha v epitelovo-mezenchýmovej tranzícii a v prenose medzibunkových signálov. APVV-0108-10 : Identifikácia molekulových dráh riadených prostredníctvom hypoxia-indukovanej anhydrázy IX kyseliny uhličitej v nádorových bunkách. VEGA 2/0130/11 : Úloha karbonickej anhydrázy IX v bunkovej migrácii ako zložke metastatickej kaskády)

Citácie:

1. [1.1] BOEDTKJER, E. Ion Channels, Transporters, and Sensors Interact with the Acidic Tumor Microenvironment to Modify Cancer Progression. In FROM MALIGNANT TRANSFORMATION TO METASTASIS: Ion Transport in Tumor Biology. ISSN 0303-4240, 2022, vol. 182, p. 39-84. Dostupné na: https://doi.org/10.1007/112_2021_63, Registrované v: WOS

2. [1.1] DI FIORE, A. - SUPURAN, C.T. - SCALONI, A. - DE SIMONE, G. Post-translational modifications in tumor-associated carbonic anhydrases. In AMINO ACIDS. ISSN 0939-4451, APR 2022, vol. 54, no. 4, SI, p. 543-558. Dostupné na: https://doi.org/10.1007/s00726-021-03063-y, Registrované v: WOS

3. [1.1] HUANG, H.C. - SHIU, B.H. - NASSEF, Y. - HUANG, C.C. - CHOU, Y.E. - TING, W.C. - CHANG, L.C. - LIN, J.C. - HSIAO, L.K. - YANG, S.F. - SU, S.C. Impact of carbonic anhydrase 9 gene polymorphism on the progression of colorectal cancer. In JOURNAL OF CANCER. ISSN 1837-9664, 2022, vol. 13, no. 9, p. 2775-2780. Dostupné na: https://doi.org/10.7150/jca.73898, Registrované v: WOS

4. [1.1] KCIUK, M. - GIELECINSKA, A. - MUJWAR, S. - MOJZYCH, M. - MARCINIAK, B. - DROZDA, R. - KONTEK, R. Targeting carbonic anhydrase IX and XII isoforms with small molecule inhibitors and monoclonal antibodies. In JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY. ISSN 1475-6366, DEC 31 2022, vol. 37, no. 1, p. 1278-1298. Dostupné na: https://doi.org/10.1080/14756366.2022.2052868, Registrované v: WOS

5. [1.1] MATULIENE, J. - ZVINYS, G. - PETRAUSKAS, V. - KVIETKAUSKAITE, A. - ZAKSAUSKAS, A. - SHUBIN, K. - ZUBRIENE, A. - BARANAUSKIENE, L. - KACENAUSKAITE, L. - KOPANCHUK, S. - VEIKSINA, S. - PAKETURYTE-LATVE, V. - SMIRNOVIENE, J. - JUOZAPAITIENE, V. - MICKEVICIUTE, A. - MICHAILOVIENE, V. - JACHNO, J. - STRAVINSKIENE, D. - SLIZIENE, A. - PETROSIUTE, A. - BECKER, H.M. - KAZOKAITE-ADOMAITIENE, J. - YAROMINA, A. - CAPKAUSKAITE, E. - RINKEN, A. - DUDUTIENE, V. - DUBOIS, L.J. - MATULIS, D. Picomolar fluorescent probes for compound affinity determination to carbonic anhydrase IX expressed in live cancer cells. In SCIENTIFIC REPORTS. ISSN 2045-2322, OCT 21 2022, vol. 12, no. 1. Dostupné na: https://doi.org/10.1038/s41598-022-22436-1, Registrované v: WOS

6. [1.1] MCDONALD, P.C. - CHAFE, S.C. - SUPURAN, C.T. - DEDHAR, S. Cancer Therapeutic Targeting of Hypoxia Induced Carbonic Anhydrase IX: From Bench to Bedside. In CANCERS. JUL 2022, vol. 14, no. 14. Dostupné na: https://doi.org/10.3390/cancers14143297, Registrované v: WOS

7. [1.1] NAZON, C. - PIERREVELCIN, M. - WILLAUME, T. - LHERMITTE, B. - WEINGERTNER, N. - DI MARCO, A. - BUND, L. - VINCENT, F. - BIERRY, G. - GOMEZ-BROUCHET, A. - REDINI, F. - GASPAR, N. - DONTENWILL, M. - ENTZ-WERLE, N. Together Intra-Tumor Hypoxia and Macrophagic Immunity Are Driven Worst Outcome in Pediatric High-Grade Osteosarcomas. In CANCERS. MAR 2022, vol. 14, no. 6. Dostupné na: https://doi.org/10.3390/cancers14061482, Registrované v: WOS

8. [1.1] RUSSELL, S. - XU, L.P. - KAM, Y. - ABRAHAMS, D. - ORDWAY, B. - LOPEZ, A.S. - BUI, M.M. - JOHNSON, J. - EPSTEIN, T. - RUIZ, E. - LLOYD, M.C. - SWIETACH, P. - VERDUZCO, D. - WOJTKOWIAK, J. - GILLIES, R.J. Proton export upregulates aerobic glycolysis. In BMC BIOLOGY. JUL 15 2022, vol. 20, no. 1. Dostupné na: https://doi.org/10.1186/s12915-022-01340-0, Registrované v: WOS

ADMB02 MARTINOVIČOVÁ, M. - JANEČEK, Štefan**. In silico analysis of the α-amylase family GH57: eventual subfamilies reflecting enzyme specificities. In 3 Biotech, 2018, vol. 8, p. 307. (2017: 0.511 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-018-1325-9

Citácie:

1. [1.1] CONCHOU, L. - MARTIN, J. - GONçALVES, I.R. - GALISSON, F. - VIOLOT, S. - GUILLIèRE, F. - AGHAJARI, N. - BALLUT, L. The Candida glabrata glycogen branching enzyme structure reveals unique features of branching enzymes of the Saccharomycetaceae phylum. In GLYCOBIOLOGY. ISSN 0959-6658, MAR 31 2022, vol. 32, no. 4, p. 343-355., Registrované v: WOS

2. [1.1] JUNG, J.H. - HONG, S.P.Y. - JEON, E.J. - KIM, M.K. - SEO, D.H. - WOO, E.J. - HOLDEN, J.F. - PARK, C.S. Acceptor dependent catalytic properties of GH57 4-a-glucanotransferase from Pyrococcus sp. ST04. In FRONTIERS IN MICROBIOLOGY. OCT 6 2022, vol. 13., Registrované v: WOS
3. [1.2] SHARMA, Anshul - SHARMA, Neha - GUPTA, Deepshikha - LEE, Hae Jeung - PARK, Young Seo. Comparative genome analysis of four Leuconostoc strains with a focus on carbohydrate-active enzymes and oligosaccharide utilization pathways. In Computational and Structural Biotechnology Journal, 2022-01-01, 20, pp. 4771-4785. Dostupné na: https://doi.org/10.1016/j.csbj.2022.08.032, Registrované v: SCOPUS

ADMB03 SADIAN, Y. - GATSOGIANNIS, C. - PATASI, Csilla - HOFNAGEL, O. - GOODY, R.S. - FARKAŠOVSKÝ, Marian - RAUNSER, S. The role of Cdc42 and Gic1 in the regulation of septin filament formation and dissociation. In eLife, 2013, vol. 2, no. e01085. (2013 - SCOPUS). ISSN 2050-084X. Dostupné na: https://doi.org/10.7554/eLife.01085

Citácie:
1. [1.1] DE FARIA, J.P. - VALE-SILVA, R.S. - FäSSLER, R. - WERNER, H.B. - RELVAS, J.B. Pinch2 regulates myelination in the mouse central nervous system. In DEVELOPMENT. ISSN 0950-1991, JUL 2022, vol. 149, no. 13. Dostupné na: https://doi.org/10.1242/dev.200597, Registrované v: WOS
2. [1.1] IBANES, S. - EL-ALAOUI, F. - LAI-KEE-HIM, J. - CAZEVIEILLE, C. - HOH, F. - LYONNAIS, S. - BRON, P. - CIPELLETTI, L. - PICAS, L. - PIATTI, S. The Syp1/FCHo2 protein induces septin filament bundling through its intrinsically disordered domain. In CELL REPORTS. ISSN 2211-1247, DEC 6 2022, vol. 41, no. 10. Dostupné na: https://doi.org/10.1016/j.celrep.2022.111765, Registrované v: WOS
3. [1.2] ROBINSON, Benjamin P. - DOLAT, Lee - SPILIOTIS, Elias T. The Septin Cytoskeleton: Assembly and Functions in Intracellular Organization. In Encyclopedia of Cell Biology: Volume 1-6, Second Edition, 2022-01-01, 3, pp. 70-78. Dostupné na: https://doi.org/10.1016/B978-0-12-821618-7.00175-9, Registrované v: SCOPUS
4. [1.2] WEDLICH-SOLDNER, R. Cdc42 and the Mechanisms of Yeast Cell Polarization A Paradigm for Mesoscale Systems Biology. In Encyclopedia of Cell Biology: Volume 1-6, Second Edition, 2022-01-01, 6, pp. 219-224. Dostupné na: https://doi.org/10.1016/B978-0-12-821618-7.40008-8, Registrované v: SCOPUS

BDMA Odborné práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

BDMA01 MARVASI, M.** - PANGALLO, Domenico - CAVALIERI, D. - POYATOS-JIMÉNEZ 3, F. Editorial: Multi-Omics Revolution in Microbial Cultural Heritage Conservation. In Frontiers in Microbiology, 2021, vol. 12, no. 720509. (2020: 5.640 - IF, Q1 - JCR, 1.701 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2021.720509

Citácie:
1. [1.1] SAADOULI, I. - MARASCO, R. - MEJRI, L. - HAMDEN, H. - GUERFALI, M.M. - STATHOPOULOU, P. - DAFFONCHIO, D. - CHERIF, A. - OUZARI, H.I. - TSIAMIS, G. - MOSBAH, A. Diversity and adaptation properties of actinobacteria associated with Tunisian stone ruins. In FRONTIERS IN MICROBIOLOGY. DEC 13 2022, vol. 13., Registrované v: WOS
2. [1.1] VASUDEVA, G. - SINGH, H. - PALIWAL, S. - PINNAKA, A.K. Metagenomics: An Approach for Unraveling the Community Structure and Functional Potential of Activated Sludge of a Common Effluent Treatment Plant. In FRONTIERS IN MICROBIOLOGY. JUL 18 2022, vol. 13., Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Jacob Bauer, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra chémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.

Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladimír Leksa, PhD.
Názov semestr. predmetu: základy molekulárnej imunológie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, katedra biochémie PriFUK

RNDr. Ľubica Urbániková, CSc.
Názov semestr. predmetu: Štruktúrna biológia - Kryštalografia proteínov a nukleových kyselín
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochémie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 11
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Biological chemistry
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Semestrálne cvičenia:

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Laboratórne cvičenia z aplikovanej biológieII
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

Mgr. Dominika Galová
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 40
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Milan Hučko
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 52
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Iveta Jahodová
Názov semestr. predmetu: Biochémia
Počet hodín za semester: 24
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra chémie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 10
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 24
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 12
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Filip Opaterný
Názov semestr. predmetu: Cvičenia z molekulárnej biológie (po anglicky)
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Kristína Pápayová
Názov semestr. predmetu: Molekulárna biológia - cvičenia
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Cvičenie k bakalárskej práci z bioanorganickej chémie
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Semináre:

Jacob Bauer, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Bioinformatická identifikácia a expresia domén z multidoménových proteínov a ich biofyzikálna charakterizácia CD-spektroskopiou a nano-diferenčnou skenovacou fluorimetriou (nanoDSF)
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Fakulta prírodných vied

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra Biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Základy imunológie
Počet hodín za semester: 5
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Applikovaná biológia

Terénne cvičenia:

Individuálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Genetika modelovych organizmov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

RNDr. Imrich Barák, DrSc.

Názov semestr. predmetu: Pokrocile prednasky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochemie

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Ing. Juraj Majtán, DrSc., MBA, FIFST
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Univerzita tretieho veku

RNDr. Marcel Zámocký, DrSc.
Názov semestr. predmetu: Bioanorganická chémia
Počet hodín za semester: 8
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra anorganickej chémie

Príloha A-5

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Belgicko					Juraj Majtán	3
Česko					Eva Kutejová	2
					Gabriela Ondrovičová	1
					Ľubica Urbániková	7
Dánsko					Štefan Janeček	15
Írsko					Ľuboš Kľučár	5
					Juraj Majtán	3
Maďarsko					Domenico Pangallo	3
Nemecko					Imrich Barák	5
					Daniela Krajčíková	5
Rakúsko	Marcela Bučeková	180			Marcel Zámocký	3
Taliansko					Nikola Klištincová	6
					Ľuboš Kľučár	5
					Lucia Kraková	7
					Domenico Pangallo	12
					Domenico Pangallo	7
					Jelena Pavlović	6
USA					Naďa Labajová	150
Počet vyslaní spolu	**1**	**180**			**18**	**245**

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**

Srbsko					Teodora Djakovic	75
Taliansko					Alessio Fontanot	90
					Maria Teresa Rodinó	83
					Pierluca Nuccetelli	225
Počet prijatí spolu					**4**	**473**

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	konzervátorů-restaurátorů 2023	Domenico Pangallo	3
	Struktura 2023	Eva Kutejová	5
Francúzsko	ISMB/ECCB 2023	Gábor Beke	6
		Milan Hučko	6
Chorvátsko	Power of Microbes 2023	Zuzana Farkas	6
		Jelena Pavlović	6
		Magdaléna Rusková	6
	Protein quality control: From molecular mechanisms	Henrieta Havalová	6
		Nina Kunová	6
		Vladimír Pevala	6
Maďarsko (online)	Human Peroxidase Meeting	Marcel Zámocký	4
Nemecko	Bacell Conference	Imrich Barák	4
	FEMS2023	Kristína Pápayová	6
Rakúsko	Microbial Stress 2023	Bohuš Kubala	3
Rakúsko (online)	erc-bpcr 2023	Domenico Pangallo	2
Švédsko	Seminar series	Imrich Barák	3
Taliansko	EWMA 2023	Marcela Bučeková	5
		Juraj Majtán	5
	PROBIOTICS, PREBIOTICS & NEW FOODS 2023	Mária Bučková	5
		Andrea Puškárová	5
USA	Minisymposium	Naďa Labajová	3
Veľká Británia	Spores Conference	Imrich Barák	4
		Katarína Muchová	4
Spolu	**15**	**23**	**109**

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

Bacell Conference - Bacell Conference
erc-bpcr 2023 - Written heritage: new challenges and perspectives Online conference of the European Research Centre for Book and Paper Conservation–Restoration
EWMA 2023 - 33rd conference of European wound management association 2023
FEMS2023 - 10th FEMS Congress of European Microbiologists
Human Peroxidase Meeting - 12th International Human Peroxidase Meeting Budapest
ISMB/ECCB 2023 - The 31st Annual Intelligent Systems For Molecular Biology and the 22nd Annual European Conference on Computational Biology
konzervátorů-restaurátorů 2023 - Konference konzervátorů-restaurátorů 2023 ve Zlíně
Microbial Stress 2023 - 6th meeting on Microbial Responses to Stress
Minisymposium - Minisymposium of Department of Biological Chemistry and Molecular Pharmacology, Harvard University,
Power of Microbes 2023 - Power of Microbes in Industry and Environment 2023
PROBIOTICS, PREBIOTICS & NEW FOODS 2023 - 12TH PROBIOTICS, PREBIOTICS & NEW FOODS NUTRACEUTICALS, BOTANICALS & PHYTOCHEMICALS FOR NUTRITION & HUMAN, ANIMAL AND MICROBIOTA HEALTH
Protein quality control: From molecular mechanisms - EMBO workshop Protein quality control: From molecular mechanisms to therapeutic intervention
Seminar series - Seminar series University of Umea
Spores Conference - 10th European Spores Conference
Struktura 2023 - Struktura 2023

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Imrich Barák, DrSc.		TV	Podcast televízie JOJ	Podcast televízie JOJ	6.10.2023
Mgr. Marcela Bučeková, PhD.		TL	Článok - Liečivé zlato	Quark Magazín o vede a technike	2023
Mgr. Marcela Bučeková, PhD.		RO	Hosť Nory Gubkovej	Rozhlas	26.6.2023
Mgr. Marcela Bučeková, PhD.		PB	Osobná prednáška pre Miestny odbor Živena Bratislava	Osobne v Miestnom odbore Živena Bratislava	10.5.2023
Mgr. Marcela Bučeková, PhD.		PB	Prednáška pre OZ Zelené vzdelávanie	Osobne ZŠ Bystrianska, Ružomberok	15.5.2023
Mgr. Marcela Bučeková, PhD.		PB	Prednáška pre ZO SZV Bratislava	Osobne v Bratislave	5.9.2023
Mgr. Marcela Bučeková, PhD.		TV	Reportáž	Relácia Reflex, TV Markíza	6.2.2023
Mgr. Marcela Bučeková, PhD.		PB	Vivat scientia! Nech žije veda!	Web - Youtube	19.12.2023
RNDr. Gabriela Bukovská, CSc.		IN	Antimicrobial protein against Streptococcus agalactiae - Endolyzin (online prednáška)	Webinar on Innovation Technologies (Taiwan) - KTT SAV	29.5.2023
RNDr. Mária Kajsiková, PhD.	Lucia Bocánová, Gabriela Bukovská	TL	Článok "Prirodzené predátory baktérií"	Magazín o vede a technike: Quark	2.3.2023
Mgr. Vladimír Leksa, PhD.	-	IN	podcast pre CVTI	https://vedanadosah.cvtisr.sk/zdravie/podcast-nie-je-spravne-zit-v-sterilnom-prostredi-ale-hygiena-je-klucova/	16.8.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST		PB	Biologické vlastnosti včelieho peľu a pergy a ich klinické využitie	Záhradkársky veľtrh Trenčín 2023	15.4.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST		PB	Biologické vlastnosti včelieho peľu a pergy a ich klinické využitie - výslekdy vedeckého výskumu	Bratislava (ZO SZV Bratislava)	6.6.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST		PB	Health benefits of honeydew honey	NPPC Výskumný ústav potravinársky	23.10.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST		TL	Majtán: Včely aj ostatné opeľovače sú ohrozené viac ako v minulosti	TASR	24.1.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST		TL	Medové laboratórium ako katalyzátor dôležitých spoluprác	Transfer technológií bulletin 2/2023	1.10.2023
Ing. Juraj Majtán,		TV	Spektrum 24 -	TV JOJ 24	18.6.2023

DrSc., MBA, FIFST			Slovenský med pod drobnohľadom		
Ing. Juraj Majtán, DrSc., MBA, FIFST		IN	The goal is to become a technologically advanced country. The reality is an assembly workshop.	www.spectator.sme.sk	14.8.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	TV	Experiment	RTVS2	6.3.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	TV	Farmárska revue	RTVS	19.3.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	iné	Festival	PVA EXPO Praha (Česká republika)	8.6.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	PB	Predstavenie výskumu medu	SÚKROMNÉ GYMNÁZIUM PRE ŽIAKOV SO VŠEOBECNÝM INTELEKTOVÝM NADANÍM CENADA	22.6.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	RO	Príbeh na týždeň	Radio Slovensko	30.6.2023
Ing. Juraj Majtán, DrSc., MBA, FIFST	Marcela Bučeková	PB	Včely a včelie produkty	Dúhova školka, Bratislava	25.5.2023
Mgr. Vladimír Leksa, PhD.	-	TL	popularizačné články a rozhovory	https://komentare.sme.sk/c/23141326/co-nam-nenapovedal-covid-19-dopovie-vtacia-chripka.html	7

[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2023

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Medzinárodné ocenenia

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenenej osoby.

ČASŤ B

Výročná správa o hospodárení organizácie

za rok 2023

19. Rámcové informácie o hospodárení organizácie

19.1. Výdavky organizácie

Tabuľka 19a Výdavky organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie (v. v. i.)		**Zdroje, z ktorých sa kryli jednotlivé výdavky**			
Výdavky	**Spolu**	**kapitola SAV (111)**	**iné štátne a verejné zdroje**	**ostatné zdroje**	**% krytia z kapitoly SAV**
1. Bežné výdavky	2867269,56	2175942,62	677192	14 134,94	75,88
z toho: mzdy (610)	1403981,5	1 203 279,50	196071	4631	85,70
vedecká výchova štipendiá (640)	165181,64	165181,64			100
poistné a príspevok do poisťovní (620)	480492,11	410243	68619	1630,11	85,37
tovary a služby (630)	596759,83	365617	223269	7873,83	61,27
transfery partnerom projektov (640)	220854,48	31621,48	189233		14,31
2. Kapitálové výdavky	41957	28289		13668	67,42
z toho: obstarávanie kapitálových aktív	41957	28289		13668	67,42
kapitálové transfery					

19.2. Zdroje financovania organizácie

Tabuľka 19b Zdroje financovania organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie (v. v. i.)		**Z toho kategórie**			
Zdroje	**Spolu**	**Kapitálové zdroje**	**zdroje na mzdy (610)**	**zdroje na odvody do poisťovní (620)**	**zdroje na transfery partnerom projektov**
1. kapitola SAV (111)	2192916,63	19516,80	1 203 279,50	410243	
z toho: VEGA	128991				
MVTS výskumné projekty	29996			987,84	
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	6489			459,02	
Vedecká výchova (štipendiá)	165181,64				
OTAS (630)	34774,93	8772			
2. ŠF EÚ vr. fin. zo ŠR	375019		99318	34 936	106 172,74
3. medzinárodné grantové projekty	16815,1	11148			
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	430555		96752,33	33682,4	82321
z toho: APVV	430555		96752,33	33682,4	82321
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	21066,27				
z toho: príjmy z prenájmu	6 356,40				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	14709,87				

Informácie o hospodárení – analýza výkazov účtovnej závierky

Účtovná jednotka **molekulárnej biológie SAV, v. v. i.** od 1.1.2022 zmenila právnu formu z príspevkovej organizácie na verejnú výskumnú inštitúciu. Vzhľadom k tejto skutočnosti účtovná jednotka od 1.1.2022 postupuje pri vedení účtovníctva podľa Opatrenia MF SR č. MF/24342/2007-74 zo dňa 14.11.2007 v znení neskorších predpisov, ktorým sa ustanovujú podrobnosti o postupoch účtovania a účtovej osnove pre účtovné jednotky, ktoré nie sú založené alebo zriadené na účel podnikania. Pri zostavovaní individuálnej účtovnej závierky účtovná jednotka postupuje podľa Opatrenia MF SR z 30. októbra 2013 č. MF/17616/2013-74.

Pri prechode v roku 2022 z príspevkovej organizácie na verejnú výskumnú inštitúciu bolo vytvorené základné imanie vo výške 68 430,96 €, ktoré bolo vytvorené z hodnoty pozemkov a umeleckých diel

SÚVAHA

Súvaha poskytuje ucelený prehľad o aktívach a pasívach účtovnej jednotky za rok 2023. Celková hodnota aktív vykázaná v súvahe sa rovná hodnote pasív a je vo výške **1.621.914.62 €.**

Celková suma aktív k 31.12.2023 v hodnote **1.621.914.62 €** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**720 751.85**
Dlhodobý nehmotný majetok	2 394
Dlhodobý hmotný majetok	718 357.85
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**888 963.09**
Zásoby	491.76
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	544 477.2
Finančné účty	343 994.13
ČASOVÉ ROZLÍŠENIE SPOLU	**12 199.68**
Náklady budúcich období	**12 199.68**
Príjmy budúcich období	0,00
MAJETOK SPOLU	1.621.914.62

Aktíva tvorí **neobežný majetok**, ktorý zahŕňa výlučne **dlhodobý hmotný majetok (DHM)** v celkovej hodnote **720 751,85** € netto. Tvoria ho prevažne stavby (021) v hodnote 329 537,93€ netto, ďalej samostatné hnuteľné veci (022) v hodnote 310 792.6 € netto a v menšej hodnote pozemky 63 632,74a umelecké diela spolu za 14 394.58€.

Ďalšou významnou skupinou aktív je **obežný majetok** v hodnote **888 963,09**€. V rámci obežného majetku sú významné skupiny :

- **krátkodobé pohľadávky** – najvýznamnejšiu časť tvoria pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu (346) v hodnote 544 392 € - ide o predpis nároku na finančné prostriedky vyplývajúce z projektov APVV na nasledujúce roky. Ďalšiu časť krátkodobých pohľadávok tvoria pohľadávky (335) v hodnote 85,20 €, ktoré vyplývajú z nákupu PHM. Všetky pohľadávky sú v lehote splatnosti.
- **finančné účty**, kde najvýznamnejšia hodnota prislúcha stavu bankových účtov v hodnote 343 994.13€.
- v skupine **časové rozlíšenie** sú vykázané hodnoty v rámci **nákladov budúcich období** (381) a to v hodnote 12 199.68 €, kde významná položka vo výške 8283,36 € aktualizácie softvéru prístroja 3 roky po záruke. V rámci nákladov budúcich období ide o časové rozlíšenie nákladov na poistenie majetku, časové rozlíšenie nákladov na licencie, predplatné a iné menej významné položky**.**
- Drobný nehmotný majetok do 2 400 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa účtuje do nákladov na účet 518 – Ostatné služby.
- Drobný hmotný majetok do 1 700 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, účtuje sa do nákladov na účet 501 – Spotreba materiálu. Tento sa vedie v operatívnej evidencii. - drobný hmotný majetok, ktorého obstarávacia cena je vyššia ako 500,- EUR a nižšia ako 1 700 EUR.
- V roku 2023 bol zakúpený dlhodobý majetok – projektová dokumentácia pre zateplenie budovy ÚMB II a modernizácia kotolne, izolácia v rámci kotolne budovy ÚMB I v celkovej sume 7.516,80,- €, hlboko mraziaca mraznička - 80 C s príslušenstvom v celkovej sume 12.000,- €, hlboko mraziaca mraznička - 80 C s príslušenstvom v celkovej sume 11.148,- €. Žiaden dlhodobý majetok v roku 2023 nebol vyradený.

Celková suma pasív k 31.12.2023 v hodnote **1 621 914.62€** ma nasledujúce členenie:

Pasíva	Bežné účtovné obdobie
VLASTNÉ IMANIE	**139 752.66**
Imanie a fondy	68 430,96
Fondy tvorené zo zisku	0,00
Nevysporiadaný výsledok hospodárenia minulých rokov	69613.25
Výsledok hospodárenia za účtovné obdobie	1 708.45
ZÁVÄZKY	**71 673.38**
Rezervy	0,00

Dlhodobé záväzky	22 312,52
Krátkodobé záväzky	49 360,86
ČASOVÉ ROZLÍŠENIE SPOLU	**1 410 488,58**
Výdavky budúcich období (383)	0,00
Výnosy budúcich období krátkodobé (384 AÚ)	550 215.43
Výnosy budúcich období dlhodobé (384 AÚ)	860 273.15
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLÍŠENIA	**1 621 914.62**

V rámci pasív účtovná jednotka vykázala **vlastné imanie** v celkovej hodnote 139 752.66 €. Z toho najvyššiu hodnotu dosahuje nevysporiadaný výsledok hospodárenia minulých rokov (428) v sume 69 613.25 €, ďalej je to výsledok hospodárenia za bežné účtovné obdobie 1 708.45€ a hodnota základného imania (411) 68 430,96 €.

Ďalšou významnou skupinou pasív sú **záväzky** v hodnote **71 673.38** €. Členia sa na dlhodobé v hodnote 22 312,52 € a krátkodobé v hodnote 49 360,86 €.

V rámci **krátkodobých záväzkov** účtovná jednotka eviduje :

- záväzky z obchodného styku v sume 0,- € v lehote splatnosti
- záväzky voči zamestnancom v sume 0,- € v lehote splatnosti
- daňové záväzky - splatná daň z príjmov právnických osôb za rok 2023 v sume 276,86 € vyplývajúca zo zdaňovanej hlavnej činnosti – prenájom a tržieb z predaja služieb v priebehu roku 2023.
- ostatné záväzky - účtovná jednotka eviduje krátkodobé záväzky do jedného roka voči spoluriešiteľom v rámci schválených projektov APVV v hodnote 49.088,00 €.

V rámci **dlhodobých záväzkov** účtovná jednotka k 31.12.2023 vykázala :

- ostatné dlhodobé záväzky v sume 10.866 € – ide o dlhodobé záväzky voči spoluriešiteľom v rámci schválených projektov APVV.
- záväzky zo sociálneho fondu v sume 11 446,52 €

Najvýznamnejšou skupinou pasív je **časové rozlíšenie** v hodnote **1 410 488,58** €. Z toho najvyššiu hodnotu dosahujú Výnosy budúcich období - dlhodobé v sume 860 273.15 € a následne Výnosy budúcich období - krátkodobé v sume 550 215.43€.

V rámci výnosov budúcich období sa sleduje :

zostatková hodnota dlhodobého majetku obstaraného z dotácií (dlhodobé) 613 816,65 €
zostatok nepoužitých dotácií alebo grantov (dlhodobé) 246 456,50 €
- zostatok nepoužitých dotácií alebo grantov (krátkodobé) 550 215.43 €

VÝKAZ ZISKOV A STRÁT

Výkaz ziskov a strát je v plnom rozsahu uvedený v Účtovnej závierke za rok 2023, ktorá je prílohou Výročnej správy. ÚMB SAV, v. v. i. realizoval svoje aktivity v priebehu roka 2023 v rámci hlavnej činnosti nezdaňovanej a zdaňovanej. Celková výška dosiahnutých nákladov a výnosov za rok 2023 je uvedená v tabuľke :

VÝKAZ ZISKOV A STRÁT	
Náklady celkom k 31. 12. 2023	**2 837 248.76**
Výnosy celkom k 31. 12. 2023	**2 839 230.07**
Výsledok hospodárenia pred zdanením ZISK v €	**1 981.31**
Výsledok hospodárenia po zdanení ZISK v €	**1 708.45**

V rámci **hlavnej nezdaňovanej činnosti** bol dosiahnutý hospodársky výsledok pred zdanením strata 162,24 € a v rámci **hlavnej zdaňovanej činnosti** bol dosiahnutý zisk pred zdanením 1 819,07 €. Výsledok zdaňovanej činnosti bol vyčíslený z prenájmu priestorov.

Výnosy z hlavnej nezdaňovanej činnosti

Výnosy v hlavnej nezdaňovanej činnosti v sume 2 832 873.67 € predstavujú podiel na celkových výnosoch ÚMB SAV , v. v. i. 99,77 %.

V rámci hlavnej nezdaňovanej činnosti bola celková výška výnosov zastúpená nasledovne :

• Výnosy z dotácií zo štátneho rozpočtu	2 809 396.2	99,17 %
• Tržby z predaja služieb	13 065.89	0,46 %
• Prijaté príspevky od právnických osôb	8 767.6	0,31 %
• Iné výnosy	1 643.98	0,06 %

***Dotácie* zo štátneho rozpočtu (účet 691)** sú poskytované hlavne od zriaďovateľa, ktorým je Slovenská akadémia vied. Finančné prostriedky sú poskytované na základe zmluvy o poskytnutí inštitucionálnej formy podpory výskumu a vývoja, ktorej súčasťou sú najmä finančné prostriedky na osobné a prevádzkové náklady, na vedeckú výchovu, na projekty (najmä VEGA, MVTS, Mobility, SASPRO, Doktogrant,) a tiež kapitálové prostriedky. Významnú časť príjmov tvoria dotácie na projekty APVV poskytnuté Agentúrou na podporu výskumu a vývoja, Projekt Interreg ,ŠF EU - Lynch V roku 2023 sa začal realizovať projekt Úradu Vlády SR - Projekt – plán obnovy Ukrajina

***Tržby z predaja služieb* (účet 602)** zahŕňajú najmä fakturované služby vyplývajúce z riešenia úloh rozvoja vedy, rôzne analýzy a pod.

***Prijaté príspevky od právnických osôb* (účet 662)** zahŕňajú najmä výnosy z bežných transferov od subjektov mimo verejnej správy – projekty 7RP.

***Iné výnosy* (účty 649, 645)** zahŕňajú najmä vrátené poistné na sociálne a zdravotné poistenie za zamestnávateľa týkajúce sa predchádzajúcich účtovných období.

Náklady z hlavnej nezdaňovanej činnosti

Najvyšší objem v rámci celkových nákladov tvoria **mzdové náklady** a k nim prislúchajúce **zákonné sociálne poistenie , zákonné sociálne náklady** Ďalšími významnými položkami sú **spotreba materiálu** náklady na nakupované **ostatné služby, iné ostatné náklady**, zahŕňajúce hlavne náklady na štipendiá a poistenie majetku, **odpisy** majetku , náklady na **cestovné** a náklady na **opravy a udržiavanie.** Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
501 – spotreba materiálu	242 606,09	233 112,2
502 –spotreba energie	27 160,40	40 028,23
511 – opravy a udržiavanie	44 764,83	13 850,32
512- cestovné	23 332,62	30 049,92
513 – náklady na reprezentáciu	593,30	224,55
518 – ostatné služby	94 164,70	250 881,33
521 – mzdové náklady	1 208 820,93	1 413 043,05
524 – zákonné sociálne poistenie a zdravotné poistenie	410 422,51	480 491,82
527- zákonné sociálne náklady	48 379,02	46 392,69
532 – daň z nehnuteľností	73,27	73,27
538 – ostatné dane a poplatky	2 681,36	5 307,55
541- zmluvné pokuty a penále	1 000,00	0
549 – iné statné náklady	132 385,51	167 298,93
551 – odpisy dlhodobého nehmotného a hmotného majetku	145 234,23	156 494,90

Náklady a výnosy zdaňovanej činnosti

ÚMB SAV, v. v. i. v rámci zdaňovanej činnosti dosahuje výnosy z nájmu majetku a služieb súvisiacich s prenájmom majetku. V rámci zdaňovanej činnosti dosiahli výnosy z nájmu sumu 6 356,4 €. Výnosy zdaňovanej činnosti tvorili v roku 2023 0,23 % celkových výnosov.

Náklady zdaňovanej činnosti boli vykázané v sume 4.537.33€. Podiel nákladov zdaňovanej činnosti na celkových nákladoch predstavuje podiel 0,16 %.

20. Ročná účtovná závierka

Ročná účtovná závierka

a) bola predložená na prerokovanie správnej rade dňa 11.03. 2024 a správna rada sa vyjadrila dňa 11.03. 2024.
b) bola predložená na schválenie dozornej rade dňa 05.04. 2024 a dozorná rada ju schválila dňa 05.04. 2024.

Ročná účtovná závierka bola uložená do registra účtovných závierok dňa 05.04. 2024

Dozorná rada ÚMB SAV, v.v.i.

Zápisnica zo zasadnutia dozornej rady ohľadom schválenia účtovnej závierky ÚMB SAV, v.v.i.

Materiál na prerokovanie:
Žiadosť o schválenie účtovnej uzávierky **ÚMB SAV, v.v.i.** za rok 2023

Dátum: 05.04.2024
Účastníci:
Členovia dozornej rady:

prof. RNDr. Ľubica Lacinová, DrSc.,
doc. RNDr. Anton Horváth, CSc.,
Ing. Veronika Púčiková

Za ÚMB SAV, v.v.i.:
Ing. Eva Kutejová, DrSc.
Mgr. Pavol Pataky

Výsledok hlasovania zo dňa 05.04.2024

Prerokovanie žiadosti o schválenie účtovnej uzávierky bolo uskutočnené online a dozorná rada schvaľuje účtovnú uzávierku za rok 2023 bez pripomienok.

počet členov Dozornej rady: 3

počet hlasov za prijatie návrhu: 3

počet hlasov proti: 0

Všetci členovia Dozornej rady vyjadrili súhlas s predloženým návrhom.

Uznesenie č. 1: Dozorná rada ÚMB SAV, v.v.i. schvaľuje účtovnú uzávierku ÚMB SAV, v.v.i. za rok 2023 (podľa § 19, bod 7, c zákona o v.v.i.).

V Bratislave, 05.04.2024

[redacted]

Predsedníčka dozornej rady

[redacted]

Zapísala Ing. Veronika Púčiková

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 31.12.2023

Daňové identifikačné číslo	Účtovná závierka	Mesiac Rok
IČO 00166634	X riadna mimoriadna priebežná *(vyznačí sa x)*	Za obdobie od 1 2023 do 12 2023
SK NACE 72.19.0		Bezprostredne predchádzajúce obdobie od 1 2022 do 12 2022

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) *(v eurocentoch)*
X Výkaz ziskov a strát (Úč NUJ 2-01) *(v eurocentoch)*
X Poznámky (Úč NUJ 3-01) *(v celých eurách alebo eurocentoch)*

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA
Číslo: 21
PSČ: 84551
Obec: BRATISLAVA
Telefónne číslo: 259307414
E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
23.01.2024	. .20	

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana aktív			č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
				Brutto	Korekcia	Netto	Netto
a			b	1	2	3	4
A. NEOBEŽNÝ MAJETOK SPOLU		**r. 002 + r. 009 + r. 021**	**001**	3817865.74	3097113.89	720751.85	835290.3
A.I.	**Dlhodobý nehmotný majetok**	**r. 003 až r. 008**	**002**	24444	22050	2394	5985
A.I.1.	Nehmotné výsledky z vývojovej a obdobnej činnosti 012 - (072+091AÚ)		003				
2.	Softvér	013 - (073+091AÚ)	004	24444	22050	2394	5985
3.	Oceniteľné práva	014 - (074 + 091AÚ)	005				
4.	Ostatný dlhodobý nehmotný majetok (018+ 019)-(078 + 079 + 091 AÚ)		006				
5.	Obstaranie dlhodobého nehmotného majetku	(041-093)	007				
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051-095AÚ)		008				
A.II.	**Dlhodobý hmotný majetok**	**r. 010 až r. 020**	**009**	3793421.74	3075063.89	718357.85	829305.3
A.II.1.	Pozemky	(031)	010	63632.74		63632.74	63632.74
2.	Umelecké diela a zbierky	(032)	011	14394.58		14394.58	14394.58
3.	Stavby	021 - (081 + 092AÚ)	012	1160872.49	831334.56	329537.93	322936.26
4.	Samostatné hnuteľné veci a súbory hnuteľných vecí 022 - (082 + 092AÚ)		013	2540841.93	2230049.33	310792.6	400501.72
5.	Dopravné prostriedky	023 - (083 + 092AÚ)	014	13680	13680		
6.	Pestovateľské celky trvalých porastov	025 - (085 + 092AÚ)	015				
7.	Základné stádo a ťažné zvieratá	026 - (086 + 092AÚ)	016				
8.	Drobný dlhodobý hmotný majetok	028 - (088 + 092AÚ)	017				
9.	Ostatný dlhodobý hmotný majetok	029 - (089 +092AÚ)	018				
10.	Obstaranie dlhodobého hmotného majetku	(042 - 094)	019				27840
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)		020				
A.III.	**Dlhodobý finančný majetok**	**r. 022 až r. 028**	**021**				
A.III.1.	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe	(061- 096 AÚ)	022				
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom	(062 - 096 AÚ)	023				
3.	Dlhové cenné papiere držané do splatnosti	(065 - 096 AÚ)	024				
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ		025				
5.	Ostatný dlhodobý finančný majetok	(069 - 096 AÚ)	026				
6.	Obstaranie dlhodobého finančného majetku	(043 - 096 AÚ)	027				
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)		028				

MF SR 2021 Strana 2

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r. 030+ r. 037+ r. 042 + r. 051		029	888963.09		888963.09	1015704.09
B.I.	Zásoby r. 031 až r. 036	030	491.76		491.76	1065.18
B.I.1.	Materiál (112 + 119) - 191	031	491.76		491.76	1065.18
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122) - (192 +193)	032				
3.	Výrobky (123 - 194)	033				
4.	Zvieratá (124 - 195)	034				
5.	Tovar (132 + 139) - 196	035				
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)	036				
B.II.	Dlhodobé pohľadávky r. 038 až r. 041	037				
B.II.1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ	038				
2.	Ostatné pohľadávky (315 AÚ - 391AÚ)	039				
3.	Pohľadávky voči účastníkom združení (358AÚ - 391AÚ)	040				
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ	041				
B.III.	Krátkodobé pohľadávky r. 043 až r. 050	042	544477.2		544477.2	800459.83
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ	043				5427.9
2.	Ostatné pohľadávky (315 AÚ - 391 AÚ)	044				
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	045		x		
4.	Daňové pohľadávky (341 až 345)	046		x		
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+ 348)	047	544392	x	544392	794947
6.	Pohľadávky voči účastníkom združení (358 AÚ - 391AÚ)	048				
7.	Spojovací účet pri združení (396 - 391AÚ)	049				
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ	050	85.2		85.2	84.93
B.IV.	Finančné účty r. 052 až r. 056	051	343994.13		343994.13	214179.08
B.IV.1.	Pokladnica (211 + 213)	052		x		
2.	Bankové účty (221 AÚ + 261)	053	343994.13	x	343994.13	214179.08
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)	054		x		
4.	Krátkodobý finančný majetok(251+ 253 + 255AÚ+ 256 + 257) - 291AÚ	055				
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)	056				
C. ČASOVÉ ROZLÍŠENIE SPOLU r. 058 a r. 059		057	12199.68		12199.68	11025.79
C.1.	Náklady budúcich období (381)	058	12199.68		12199.68	11025.79
2.	Príjmy budúcich období (385)	059				
MAJETOK SPOLU r. 001 + r. 029 + r. 057		060	4719028.51	3097113.89	1621914.62	1862020.18

MF SR 2021 Strana 3

Súvaha (Úč NUJ 1-01) IČO 0 0 1 6 6 6 3 4

Strana pasív			č.r.	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
a			b	5	6
A. VLASTNÉ IMANIE		r. 062+ r. 067 + r. 071 + r. 072	061	139752.66	138044.21
A.I.	**Imanie a fondy**	**r. 063 až r. 066**	062	68430.96	68430.96
A.I.1.	Základné imanie	(411)	063	68430.96	68430.96
2.	Fondy tvorené podľa osobitných predpisov	(412)	064		
3.	Fond reprodukcie	(413)	065		
4.	Oceňovacie rozdiely z precenenia kapitálových účastín	(415)	066		
A.II.	**Fondy tvorené zo zisku**	**r. 068 až r. 070**	067		
A.II.1.	Rezervný fond	(421)	068		
2.	Fondy tvorené zo zisku	(423)	069		
3.	Ostatné fondy	(427)	070		
A.III.	**Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)**		071	69613.25	61169.8
A.IV.	**Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)**		072	1708.45	8443.45
B. ZÁVÄZKY		r. 074 + r. 078 + r. 086 + r. 096	073	71673.38	153901.9
B.I.1.	**Rezervy**	**r. 075 až r. 077**	074		
2.	Rezervy zákonné	(451AÚ)	075		
3.	Ostatné rezervy	(459AÚ)	076		
4.	Krátkodobé rezervy	(323 + 451AÚ + 459AÚ)	077		
B.II.	**Dlhodobé záväzky**	**r. 079 až r. 085**	078	22312.52	68733.42
B.II.1.	Záväzky zo sociálneho fondu	(472)	079	11446.52	8779.42
2.	Vydané dlhopisy	(473 - 255 AÚ)	080		
3.	Záväzky z nájmu	(474 AÚ)	081		
4.	Dlhodobé prijaté preddavky	(475)	082		
5.	Dlhodobé nevyfakturované dodávky	(476 AÚ)	083		
6.	Dlhodobé zmenky na úhradu	(478)	084		
7.	Ostatné dlhodobé záväzky	(373 AÚ + 479 AÚ)	085	10866	59954
B.III.	**Krátkodobé záväzky**	**r. 087 až r. 095**	086	49360.86	85168.48
B.III.1.	Záväzky z obchodného styku	(321 až 326) okrem 323	087	49088	84823.59
2.	Záväzky voči zamestnancom	(331+ 333)	088		
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami	(336)	089		
4.	Daňové záväzky	(341 až 345)	090	272.86	344.89
5.	Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy	(346+348)	091		
6.	Záväzky z upísaných nesplatených cenných papierov a vkladov	(367)	092		
7.	Záväzky voči účastníkom združení	(368)	093		
8.	Spojovací účet pri združení	(396)	094		
9.	Ostatné záväzky	(379 + 373 AÚ + 474 AÚ +476AÚ + 479 AÚ)	095		
B.IV.	**Bankové úvery a iné výpomoci a pôžičky**	**r. 097 až r. 099**	096		
B.IV.1.	Dlhodobé bankové úvery	(461AÚ)	097		
2.	Bežné bankové úvery	(231+ 232 + 461AÚ)	098		
3.	Prijaté krátkodobé finančné výpomoci	(241+ 249)	099		
C. ČASOVÉ ROZLÍŠENIE SPOLU		r. 101 až r. 103	100	1410488.58	1570074.07
C.I.1.	Výdavky budúcich období	(383)	101		
2.	Výnosy budúcich období krátkodobé	(384 AÚ)	102	550215.43	485064.65
3.	Výnosy budúcich období dlhodobé	(384 AÚ)	103	860273.15	1085009.42
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLÍŠENIA		r.061+ r.073 + r.100	104	1621914.62	1862020.18

MF SR 2021 Strana 4

Výkaz ziskov a strát (Úč NUJ 2-01) IČO 0 0 1 6 6 6 3 4

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	01	233112.2		233112.2	242606.09
502	Spotreba energie	02	40028.23		40028.23	27160.4
504	Predaný tovar	03				
511	Opravy a udržiavanie	04	13850.32		13850.32	44764.83
512	Cestovné	05	30049.92		30049.92	23332.62
513	Náklady na reprezentáciu	06	224.55		224.55	595.3
518	Ostatné služby	07	246344	4537.33	250881.33	94164.7
521	Mzdové náklady	08	1413043.05		1413043.05	1208820.93
524	Zákonné sociálne poistenie a zdravotné poistenie	09	480491.82		480491.82	410422.51
525	Ostatné sociálne poistenie	10				
527	Zákonné sociálne náklady	11	46392.69		46392.69	48379.02
528	Ostatné sociálne náklady	12				
531	Daň z motorových vozidiel	13				
532	Daň z nehnuteľností	14	73.27		73.27	73.27
538	Ostatné dane a poplatky	15	5307.55		5307.55	2681.36
541	Zmluvné pokuty a penále	16				1000
542	Ostatné pokuty a penále	17				
543	Odpísanie pohľadávky	18				
544	Úroky	19				
545	Kurzové straty	20				
546	Dary	21				
547	Osobitné náklady	22				
548	Manká a škody	23				
549	Iné ostatné náklady	24	167298.93		167298.93	132385.51
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	156494.9		156494.9	145234.23
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26				
553	Predané cenné papiere	27				
554	Predaný materiál	28				
555	Náklady na krátkodobý finančný majetok	29				
556	Tvorba fondov	30				
557	Náklady na precenenie cenných papierov	31				
558	Tvorba a zúčtovanie opravných položiek	32				
561	Poskytnuté príspevky organizačným zložkám	33				
562	Poskytnuté príspevky iným účtovným jednotkám	34				
563	Poskytnuté príspevky fyzickým osobám	35				
565	Poskytnuté príspevky z podielu zaplatenej dane	36				
567	Poskytnuté príspevky z verejnej zbierky	37				
Účtová trieda 5 spolu r. 01 až r. 37		38	2832711.43	4537.33	2837248.76	2381620.77

Výkaz ziskov a strát (Úč NUJ 2-01) IČO 0 0 1 6 6 6 3 4

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
601	Tržby za vlastné výrobky	39				
602	Tržby z predaja služieb	40	13065.89		13065.89	19787.15
604	Tržby za predaný tovar	41				
611	Zmena stavu zásob nedokončenej výroby	42				
612	Zmena stavu zásob polotovarov	43				
613	Zmena stavu zásob výrobkov	44				
614	Zmena stavu zásob zvierat	45				
621	Aktivácia materiálu a tovaru	46				
622	Aktivácia vnútroorganizačných služieb	47				
623	Aktivácia dlhodobého nehmotného majetku	48				
624	Aktivácia dlhodobého hmotného majetku	49				
641	Zmluvné pokuty a penále	50				
642	Ostatné pokuty a penále	51				
643	Platby za odpísané pohľadávky	52				
644	Úroky	53				
645	Kurzové zisky	54				
646	Prijaté dary	55				
647	Osobitné výnosy	56				
648	Zákonné poplatky	57				
649	Iné ostatné výnosy	58	1643.98		1643.98	681.59
651	Tržby z predaja dlhodobého nehmotného majetku a dlhodobého hmotného majetku	59				
652	Výnosy z dlhodobého finančného majetku	60				
653	Tržby z predaja cenných papierov a podielov	61				
654	Tržby z predaja materiálu	62				
655	Výnosy z krátkodobého finančného majetku	63				
656	Výnosy z použitia fondu	64				
657	Výnosy z precenenia cenných papierov	65				
658	Výnosy z nájmu majetku	66		6356.4	6356.4	6356.4
661	Prijaté príspevky od organizačných zložiek	67				
662	Prijaté príspevky od právnických osôb	68	8767.6		8767.6	1200
663	Prijaté príspevky od fyzických osôb	69				
664	Prijaté členské príspevky	70				
665	Príspevky z podielu zaplatenej dane	71				
667	Prijaté príspevky z verejných zbierok	72				
691	Dotácie	73	2809396.2		2809396.2	2362383.97
Účtová trieda 6 spolu r. 39 až r. 73		**74**	2832873.67	6356.4	2839230.07	2390409.11
Výsledok hospodárenia pred zdanením r. 74 - r. 38		**75**	162.24	1819.07	1981.31	8788.34
591	Daň z príjmov	76		272.86	272.86	344.89
595	Dodatočné odvody dane z príjmov	77				
Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77)) (+/-)		**78**	162.24	1546.21	1708.45	8443.45

MF SR 2021 Strana 6

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej v sústave podvojného účtovníctva

zostavená k 31.12.2023

Daňové identifikačné číslo	Účtovná závierka		Mesiac	Rok
IČO	X riadna	Za obdobie od	1	2023
00166634	mimoriadna	do	12	2023
SK NACE	priebežná	Bezprostredne predchádzajúce obdobie od	1	2022
72.19.0	(vyznačí sa x)	do	12	2022

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) *(v eurocentoch)* X Výkaz ziskov a strát (Úč NUJ 2-01) *(v eurocentoch)* X Poznámky (Úč NUJ 3-01) *(v celých eurách alebo eurocentoch)*

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA Číslo: 21

PSČ: 84551 Obec: BRATISLAVA

Telefónne číslo: 259307414

E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
23.01.2024	. .20	[redacted]

21. Výrok štatutárneho audítora k ročnej účtovnej závierke

K ročnej účtovnej závierke za rok 2023 nebola vyhotovená správa audítora.

22. Prehľad príjmov a výdavkov

Podľa § 26 ods. 1 zákona č. 243/2017 Z. z. ÚMB SAV, v. v. i. verejná výskumná inštitúcia vedie oddelené evidenciu.

Oddelená evidencia sa v účtovníctve vedie o:

a) hlavnej činnosti okrem činností podľa písmen b) a c),

b) činnosti podľa § 2 ods. 1 písm. a),

c) činnosti podľa § 2 ods. 1 písm. b),

d) činnosti podľa § 2 ods. 1 písm. c),

e) činnosti podľa § 2 ods. 1 písm. d) a

f) činnosti podľa § 2 ods. 1 písm. e).

V účtovníctve sa zároveň vedie oddelená evidencia o každom projekte v rámci činností podľa § 2 ods. 1. Verejná výskumná inštitúcia vedie svoje príjmy a výdavky v súlade s rozpočtovou klasifikáciou podľa osobitného predpisu. Všetky finančné prostriedky verejnej výskumnej inštitúcie sa vedú v zmysle zákona iba na účtoch v Štátnej pokladnici, pričom ÚMB SAV, v. v. i., nemá v inej banke vedené žiadne účty.

Tabuľka 22a prehľad príjmov a výdavkov za rok 2023 podľa EK

	Ústav molekulárnej biológie SAV, v. v. i. Bilančná skutočnosť za rok 2023 v eurách	S 2023 H.č.	S 2023 P.č.	S 2023
	Príjmy v.v. i. spolu	3 241 772	0	3 241 772
	z toho:			0
200	*Nedaňové príjmy, v tom:*	21 066	0	21 066
210	Príjmy z podnikania a vlastníctva majetku	6 356	0	6 356
220	Administratívne a iné poplatky, v tom:	0	0	0
222	Pokuty, penále a iné sankcie			0
223	Poplatky a platby z nepriem. a náh. pred. a služieb			0
230	Kapitálové príjmy			0
240	Úroky z tuzemských úverov, pôžičiek, NFV, z toho:	0	0	0
243	Z účtov finančného hospodárenia			0
290	Iné nedaňové príjmy	14 710		14 710
300	*Granty a transfery*	3 015 306	0	3 015 306
310	Bežné granty a transfery, v tom:	2 978 974	0	2 978 974
311	Granty			0

312001	zo ŠR, v tom:	2 794 464	0	2 794 464
	EÚ	135 359		135 359
	spolufinancovanie			0
	MŠVVaŠ - projekty			0
	POO	55 150		55 150
312001	SAV - inštitucionálny príspevok	2 173 400		2 173 400
	APVV	430 555		430 555
312007	Z rozpočtu obce			0
312008	Z rozpočtu vyššieho územného celku			0
312011	od ostatných subjektov verejnej správy	184 510		184 510
	v tom: APVV od hlavného riešiteľa	86 804		86 804
314	Transfer subjektom nezaradeným vo verejnej správe			0
315	Transfery od subjektov nezaradených vo verejnej správe			0
320	Kapitálové granty a transfery, v tom:	19 517	0	19 517
321	Granty			0
322001	zo ŠR, v tom:	19 517	0	19 517
	EÚ			0
	spolufinancovanie zo ŠR			0
	POO			0
322001	SAV - inštitucionálny príspevok	19 517		19 517
	MŠVVŠ SR/APVV			0
322008	od ostatných subjektov verejnej správy			0
324	subjektom nezaradeným vo verejnej správe			0
325	Transfery od subjektov nezaradených vo verejnej správe			0
330	Zahraničné granty	16 815		16 815
400	*Príjmy z transakcií s fin. akt. a pas., v tom: (FO)*	205 400	0	205 400
453	Zostatok z predchádzajúcich rokov	205 400	0	205 400
	zdroj 131	34 775		34 775
	ostatné	170 625		170 625
500	*Prijaté úvery, pôžičky a návratné finančné výpomoci*	0	0	0
514	Ostatné úvery, pôžičky a návratné finančné výpomoci			0

	Výdavky v. v. i. spolu	2 909 224	0	2 909 224
	z toho:			0
600	*Bežné výdavky, v tom:*	2 867 268	0	2 867 268
610	Mzdy, v tom:	1 403 981	0	1 403 981
	EÚ	15 775		15 775
	spolufinacovanie zo ŠR	57 787		57 787
	POO	25 756		
	SAV - inštitucionálny príspevok	1 203 280		1 203 280
	MŠVVŠ SR			0
	APVV	96 752		96 752
	zahraničné granty			0
	zdroj 131			0
	ostatné z vlastných zdrojov	4 631		4 631
620	Poistné, v tom:	480 492	0	480 492
	EÚ	5 553		5 553
	spolufinacovanie zo ŠR	20 318		20 318
	POO	9 066		9 066
	MŠVVŠ SR			0
	SAV - inštitucionálny príspevok	410 243		410 243
	APVV	33 682		33 682
	zahraničné granty			0
	zdroj 131			0
	ostatné z vlastných zdrojov	1 630		1 630
630	Tovary a služby, v tom:	596 759	0	596 759
	EÚ	0		0
	spolufinacovanie zo ŠR			0
	POO	6 414		6 414
	MŠVVŠ SR			0
	SAV - inštitucionálny príspevok	339 614		339 614
	APVV	213 920		213 920
	zahraničné granty	2 934		2 934
	zdroj 131	26 003		26 003
	ostatné z vlastných zdrojov	7 874		7 874
640	Bežné transfery, v tom:	386 036	0	386 036

	EÚ	106 173		106 173
	spolufinacovanie zo ŠR			0
	POO	739		739
	MŠVVŠ SR			0
	SAV - inštitucionálny príspevok	196 803		196 803
	APVV	82 321		82 321
	zahraničné granty			0
	zdroj 131			0
	ostatné z vlastných zdrojov			0
650	Splácanie úrokov a ostatné platby			0
700	*Kapitálové výdavky*	41 957	0	41 957
710	Obstarávanie kapitálových aktív, v tom:	41 957	0	41 957
	EÚ			0
	spolufinacovanie zo ŠR			0
	POO			0
	MŠVVŠ SR			0
	SAV - inštitucionálny príspevok	12 720		12 720
	APVV			0
	zahraničné granty	11 148		11 148
	zdroj 131	15 569		15 569
	ostatné z vlastných zdrojov	2 520		2 520
720	Kapitálové transfery, v tom:	0	0	0
	EÚ			0
	spolufinancovanie zo ŠR			0
	SAV - inštitucionálny príspevok			0
	APVV			0
	ostatné z vlastných zdrojov			0

23. Pohyb a konečný stav majetku

Popis	Suma
Počiatočný stav majetku k 1.1.2023 (brutto)	4 802 639,17
Pohyby majetku (zmena stavu)	83 610,66
Konečný stav majetku k 31.12.2023 (brutto)	4 719 028.51
Oprávky – stav k 1.1.2023	2 940 618,99
Pohyby oprávok (zmena stavu)	156 494,90
Oprávky – stav k 31.12.2023	3 097 113.89
Počiatočný stav majetku k 1.1.2023 (netto)	**1 862 020.18**
Konečný stav majetku k 31.12.2023 (netto)	**1 621 914.62**

Účtovná jednotka k 31.12.2023 mala v účtovníctve dlhodobý hmotný a nehmotný majetok.

V roku 2023 účtovná jednotka zaznamenala nasledovné prírastky dlhodobého hmotného majetku :

1/ technické zhodnotenie budovy v hodnote V roku 2023 bol zakúpený dlhodobý majetok – projektová dokumentácia pre zateplenie budovy ÚMB II a modernizácia kotolne, izolácia v rámci kotolne budovy ÚMB I v celkovej sume 7.516,80,- €, s príspevku od zriaďovateľa

2/ v kategórii Samostatné hnuteľné veci bol nadobudnutý dlhodobý hmotný majetok - hlboko mraziaca mraznička - 80 C s príslušenstvom v celkovej sume 12.000,- € z projektu Impulz, hlboko mraziaca mraznička - 80 C s príslušenstvom v celkovej sume 11.148,- € z projektu 7RP. Žiaden dlhodobý majetok v roku 2023 nebol vyradený.

3/ **účet 551 – odpisy dlhodobého nehmotného a hmotného majetku 156 494,90 €**

Celková suma aktív k 31.12.2023 v hodnote **1.621.914,62 €** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**720 751.85**
Dlhodobý nehmotný majetok	2 394
Dlhodobý hmotný majetok	718 357.85
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**888 963.09**
Zásoby	491.76
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	544 477.2
Finančné účty	343 994.13
ČASOVÉ ROZLÍŠENIE SPOLU	**12 199.68**
Náklady budúcich období	**12 199.68**
Príjmy budúcich období	0,00
MAJETOK SPOLU	**1.621.914.62**

Celková suma aktív k 01.01.2023 v hodnote **1.862.020,18€** ma nasledujúce členenie:

Aktíva	Bežné účtovné obdobie
NEOBEŽNÝ MAJETOK SPOLU (netto)	**835 290.3**
Dlhodobý nehmotný majetok	5 985
Dlhodobý hmotný majetok	829 305.3
Dlhodobý finančný majetok	0,00
OBEŽNÝ MAJETOK SPOLU (netto)	**1 015 704.09**
Zásoby	1 065.18
Dlhodobé pohľadávky	0,00
Krátkodobé pohľadávky	800 459.83
Finančné účty	214 179.08
ČASOVÉ ROZLÍŠENIE SPOLU	**11 025.79**
Náklady budúcich období	**11 025.79**
Príjmy budúcich období	0,00
MAJETOK SPOLU	**1 862 020.18**

24. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

Organizácia nemá obsahovú náplň pre uvedenú kapitolu.

25. Ďalšie údaje o hospodárení organizácie

Organizácia nemá obsahovú náplň pre uvedenú kapitolu.

Výročnú správu o hospodárení organizácie zostavil(i):

Mgr. Pavol Pataky

RNDr. Lucia Bocánová, PhD.

Bratislava, 19.062024

Ing. Eva Kutejová, DrSc., v. .

riaditeľka verejnej výskumnej inštitúcie

PRÍLOHA K ČASTI B

B-1 Správa štatutárneho audítora k ročnej účtovnej uzávierke

V danom roku nebola vyhotovená.