Chemický ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022

Bratislava
jún 2023

Obsah

1. Základné údaje o verejnej výskumnej inštitúcii

Názov: Chemický ústav SAV, v. v. i.
Riaditeľ: Mgr. Stanislav Kozmon, PhD.
Zástupca riaditeľa: Ing. Vladimír Mastihuba, PhD.
Adresa: Dúbravská cesta 5807/9, 845 38 Bratislava
Tel.: 02/59410201
E-mail: chemsekr@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk: nie sú

2. Zmeny zakladacej listiny, vnútorných predpisov verejnej výskumnej inštitúcie alebo vnútorných predpisov zakladateľa

V súvislosti so zmenou právnej formy bola vydaná nová **Zakladacia listina** pre Chemický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia, evidovaná pod číslom: 06166/2021 zo dňa 15. 11. 2021 s účinnosťou od 1. 1. 2022; **Dodatok č. 1** z 11. 2. 2022 k Zakladacej listine Chemického ústavu SAV, v. v. i., číslo k 06166/2021 a **Úplné znenie Zakladacej listiny v znení dodatku č. 1 zo dňa 11. 2. 2022, číslo: 00396/2022 pre Chemický ústav SAV, v. v. i.**

Z dôvodu zmeny právnej formy od 1. 1. 2022 boli prijaté nové vnútorné predpisy s dátumom odsúhlasenia nasledovne:

- **Organizačný poriadok pracovníkov** - schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022;
- **Pracovný poriadok pracovníkov** - schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022;
- **Pravidlá tvorby rozpočtu** - schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022;
- **Pravidlá hodnotenia výskumných pracovníkov** - schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022
- **Volebný a nominačný poriadok na funkciu člena vedeckej rady** - schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022;
- **Volebný a nominačný poriadok na funkciu člena správnej rady** – schválený Správnou radou ChÚ SAV, v. v. i. dňa 25. 3. 2022 s účinnosťou od 1. 4. 2022;

3. Zloženie orgánov, zmeny v ich zložení a ich činnosť

Správna rada
Predseda: Mgr. Stanislav Kozmon, PhD.
Podpredseda: Ing. Jaroslav Katrlík, PhD.
Členovia: Mgr. Peter Baráth, PhD.
Ing. Júlia Mičová, PhD.
Oľga Švančarová

Vedecká rada
Predsedníčka: RNDr. Karin Kollárová, PhD.
Podpredseda: Ing. Pavol Farkaš, PhD.
Členovia: Ing. Maroš Bella, PhD.
Ing. Marek Bučko, PhD.
RNDr. Lenka Lorencová, PhD.
Ing. Mária Mastihubová, PhD.
Externí členovia: doc. Ing. Dušan Berkeš, CSc.
Ing. Zuzana Ciesarová, PhD.
prof. Ing. Milan Čertík, PhD.

Dozorná rada
Predseda: MUDr. Mgr. Tomáš Hromádka, PhD.
Členovia: prof. Ing. Viktor Milata, DrSc.
JUDr. Glória Gajdošová

4. Prehľad výsledkov dosiahnutých v r. 2022

Výsledky dosiahnuté v r. 2022 sú uvedené v Správe o činnosti organizácie SAV za rok 2022 (Príloha)

5. Hodnotenie výsledkov výskumnej činnosti verejnej výskumnej inštitúcie a jej spôsobilosti vykonávať výskumnú činnosť vedeckou radou

K výsledkom vedeckej činnosti ústavu Vedecká rada ChÚ SAV, v. v. i. prikladá zo zasadania konaného dňa 20. 6. 2023 nasledujúce stanovisko:
V roku 2022 nastala významná zmena fungovania organizácie, kedy sa k 1. 1. 2022 zmenila právna forma, z príspevkovej organizácie na verejnú výskumnú inštitúciu (v. v. i.), v rámci transformácie celej SAV., čo malo za následok zmenu oficiálneho názvu ústavu na Chemický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia (Chemický ústav SAV, v. v. i.), ďalej v texte iba Chemický ústav alebo ChÚ. Inak nenastali žiadne podstatné zmeny vo vedeckej orientácii Chemického ústavu, ktorá bola naďalej zameraná najmä na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov. ChÚ bol v rámci pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007, 2012 a 2016 zaradený do kategórií A* (rok 2007), A (rok 2012) a B (rok 2016). V roku 2022 sa uskutočnilo nové hodnotenie ústavov SAV za obdobie 2016 – 2021, pričom aj za uvedené obdobie bol ústav zaradený do kategórie B. V roku 2022 ChÚ publikoval 46 vedeckých prác registrovaných v Current Contents Connect a 10 vedeckých prác registrovaných vo Web of Science Core Collection alebo Scopus, z toho 30 v kvartile 1 (podľa SJR). Ohlasov na vedecké práce v období 2021 bolo 3431 (WOS + Scopus) a 545 doplnkov z roku 2020. Vedeckí pracovníci mali 4 vyžiadané prednášky na medzinárodných podujatiach. Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 117 príspevkov (prednášky a postre). V roku 2022 ukončilo doktorandské štúdium, úspešnou obhajobou, 6 študentov a dvaja pracovníci získali vyšší kvalifikačný stupeň IIa. ChÚ sa podieľal na organizovaní 3 medzinárodných podujatí (akcií): Medzinárodné sympózium o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 90 účastníkov, 12. 06. - 16. 06. 2022, 15. Bratislavské sympózium o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 120 účastníkov, 20. 06. - 24. 06. 2022, Chémia smerom k biológii 10 a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 93 účastníkov, 11. 09. - 14. 09. 2022. Vedeckí pracovníci boli hlavnými riešiteľmi projektov: 16 VEGA, 7 APVV, 1 EŠIF/OP ŠF a 4 iné. Chemický ústav bol spoluriešiteľskou organizáciou projektov: 2 VEGA, 14 APVV, 6 EŠIF/OP ŠF. Z vedeckých pracovníkov ChÚ pôsobilo 12 ako vedúci alebo konzultant diplomových a bakalárskych prác, 17 ako školiteľ doktorandov.

Chemický ústav je držiteľom platného osvedčenia o spôsobilosti vykonávať VaV činnosť: Certifikát spôsobilosti vykonávať VaV č.2021/19748:2-D1230 (05. 10. 2021 – 04. 10. 2027) (https://www.skcris.sk/). Vedecká rada ChÚ (ďalej VR) si nie je vedomá poskytnutia nepravdivých alebo neúplných údajov, ani porušenia povinností ustanovených zákonom. VR vyhlasuje, že ChÚ spĺňa podmienky ustanovené zákonom. Skutočnosť zániku právnickej osoby nenastala a z toho dôvodu je osvedčenie/certifikát naďalej platný. VR týmto a aj na základe verejne prístupných údajov z výročnej správy ChÚ vyhlasuje, že ChÚ SAV je naďalej spôsobilý vykonávať výskumnú činnosť, podľa §25 Z. z. 172/2005.

6. Ročná účtovná závierka

Ročná účtovná závierka

a) bola predložená na prerokovanie Správnej rade ChÚ SAV, v. v. i. dňa 29. 3. 2023 a Správna rada ChÚ SAV, v. v. i. sa vyjadrila dňa 29. 3. 2023.
b) bola predložená na schválenie Dozornej rade ChÚ SAV, v. v. i. dňa 16. 5. 2023 a Dozorná rada ChÚ SAV, v. v. i. ju schválila/~~neschválila~~ dňa 18. 5. 2023.

Ročná účtovná závierka bola uložená do registra účtovných závierok dňa 20. 4. 2023.

7. Výrok štatutárneho audítora k ročnej účtovnej závierke, ak sa k ročnej účtovnej závierke za príslušný rok vyhotovuje správa audítora

K ročnej účtovnej závierke za rok 2022 ~~bola~~/nebola vyhotovená správa audítora.

8. Prehľad príjmov a výdavkov

Prehľad príjmov a výdavkov z:	Príjem	Výdavok
1. z hlavnej činnosti okrem druhého a tretieho bodu		
2. činnosti podľa § 2 ods. 1 písm. a)	5 346 122,00	5 017 985,00
3. činnosti podľa § 2 ods. 1 písm. b)		
4. činnosti podľa § 2 ods. 1 písm. c)		
5. činnosti podľa § 2 ods. 1 písm. d)		
6. činnosti podľa § 2 ods. 1 písm. e)		

Celkové sumy príjmov a výdavkov za rok 2022 sú rozpísané v nasledujúcom členení:

Prostriedky na základe IFP SAV:	3 262 441,45
Prijaté transfery MZ SR:	94 488,20
Prijaté transfery APVV:	482 316,07
Prijaté transfery ŠF:	1 156 155,20
Zahraničné granty:	23 327,08
Nedaňové príjmy – konferencie a iné služby súvisiace s hlavnou činnosťou:	327 394,00
Príjmy spolu za rok 2022:	5 346 122,00

Mzdy:	2 387 442,00
Poistné:	852 916,00
Tovary a služby:	1 408 764,00
Štipendiá doktorandov:	207 817,00
Poskytnuté transfery APVV:	89 992,00
Kapitálové výdavky:	71054,00
Výdavky spolu za rok 2022:	5 017 985,00

9. Pohyb a konečný stav majetku

Počiatočný stav majetku k 1. 1. 2022	Pohyb majetku	Konečný stav majetku k 31. 12. 2022
30 774 226,44	+ 404 314,38	31 178 540,82

Poznámka: *Zo Štrukturálnych fondov boli zakúpené laboratórne prístroje.*

10. Opatrenia prijatých na odstránenie nedostatkov v hospodárení a správu o plnení opatrení prijatých na odstránenie nedostatkov

V roku 2022 neboli na Chemickom ústave SAV, v. v. i. vykonané žiadne finančné kontroly alebo audity, na základe ktorých by boli navrhnuté nápravné opatrenia.

11. Ďalšie údaje

Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 spracovali:

Členovia Vedeckej rady ChÚ SAV
Oľga Švančarová
Erika Voleková
Mgr. Stanislav Kozmon, PhD.

Stanovisko správnej rady

Správna rada ChÚ SAV schválila Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 dňa 26. 07. 2023 s formálnymi pripomienkami.

Stanovisko vedeckej rady

Vedecká rada ChÚ SAV schválila Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 dňa 24. 07. 2023 s formálnymi pripomienkami.

Stanovisko dozornej rady

Dozorná rada Chemického ústavu SAV, v. v. i. prerokovala dňa 26. júna 2023 predložené znenie Výročnej správy organizácie za rok 2022 a nemá zásadné pripomienky.

Bratislava 28. 07. 2023

.....
Mgr. Stanislav Kozmon, PhD.
riaditeľ verejnej výskumnej inštitúcie

Chemický ústav SAV, v. v. i.

CHEMICKÝ ÚSTAV SAV

INSTITUTE OF CHEMISTRY SAS

Správa o činnosti organizácie SAV za rok 2022

Bratislava
január 2023

Obsah

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Chemický ústav SAV, v. v. i.
Riaditeľ: Mgr. Stanislav Kozmon, PhD.
Zástupca riaditeľa: Ing. Vladimír Mastihuba, PhD.
Vedecký tajomník: Mgr. Jana Blahutová, PhD.
Predseda vedeckej rady: RNDr. Karin Kollárová, PhD.
Člen Snemu SAV: Mgr. Stanislav Kozmon, PhD.
Adresa: Dúbravská cesta 5807/9, 845 38 Bratislava

http://chem.sk

Tel.: 02/ 59410201
E-mail: chemsekr@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	149	64	85	12	25	143	115.88	70.11	16.5
Vedeckí pracovníci	93	46	47	7	17	87	67.88	63.79	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	16	7	9	4	7	16	8.95	5.07	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	7	2	5	1	0	7	5.8	1.25	0

Odborní pracovníci ÚS	23	4	19	0	1	23	23.7	0	16.5
Ostatní pracovníci	10	5	5	0	0	10	9.55	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 31.12.2022 (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 31.12.2022 (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 31.12.2022)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	8	38	2	2	8	24	14
Ženy	1	46	0	0	1	20	26

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	4	0.7	8	7.2	6	4.8	4	4.0	5	4.4	3	3.0	1	1.0	4	4.0	11	2.9
Ženy	12	8.4	7	6.8	10	9.2	5	5.0	3	3.0	4	4.0	0	0.0	5	5.0	2	1.5

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	51.1	51.5	50.0
Ženy	44.0	41.1	40.9
Spolu	47.0	46.2	45.4

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

V roku 2022 došlo k významnej zmene fungovania organizácie kedy sa k 1.1.2022 zmenila právna forma organizácie z príspevkovej organizácie na verejnú výskumnú organizáciu (v. v. i.) v rámci transformácie celej SAV, čím sa zmenil aj oficiálny názov ústavu na Chemický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia (Chemický ústav SAV, v. v. i.), ďalej v texte iba Chemický ústav alebo CHÚ. Inak nedošlo k žiadnym podstatným zmenám vo vedeckej orientácii Chemického ústavu SAV, v. v. i., ktorá bola naďalej zameraná najmä na riešenie problematiky chémie a biochémie sacharidov a príslušných enzýmových systémov.

Dňa 13. 1. 2022 sa konali voľby Správnej rady CHÚ SAV, v. v. i. Za členov boli zvolení Mgr. Peter Baráth, PhD.; Ing. Jaroslav Katrlík, PhD., Mgr. Júlia Mičová, PhD. a Oľga Švančarová.

Dňa 19. 4. 2022 sa konali voľby Vedeckej rady CHÚ SAV, v. v. i. Za členov boli zvolení RNDr. Karin Kollarová, PhD. - predseda, Ing. Pavol Farkaš, PhD. - podpredseda, Ing. Maroš Bella, PhD., Ing. Marek Bučko, PhD., RNDr. Lenka Lorencová, PhD. a Ing. Mária Mastihubová, PhD.. Za externých členov boli zvolení doc. Ing. Dušan Berkeš, CSc., Ing. Zuzana Ciesarová, PhD. a prof. Ing. Milan Čertík, PhD.

Dozornú radu CHÚ SAV, v. v. i. tvoria MUDr. Mgr. Tomáš Hromádka, PhD. - predseda, prof. Ing. Viktor Milata, DrSc. a JUDr. Glória Gajdošová.

Významná zmena nastala aj vo vedení ústavu. Začiatkom roka bol oficiálne zvolený do funkcie nový riaditeľ Chemického Ústavu SAV, v. v. i. Mgr. Stanislav Kozmon, PhD..

V rámci organizačného členenia organizácie (od 1. 1. 2005) je vytvorených osem vedeckých oddelení - Štruktúra a funkcia sacharidov, Glykobiológia, Glykomateriály, Glykochémia, Glykobiotechnológia, Enzymológia sacharidov, Imunochémia glykokonjugátov a Zbierka kvasiniek (tieto vedecké oddelenia spolu tvoria Centrum glykomiky) a tri spoločné nevedecké oddelenia - Analytické, Realizačné a Ekonomicko-technické oddelenie.

Chemický ústav bol v rámci pravidelných hodnotení vedeckých organizácií SAV (akreditácie) v roku 2007, 2012 a 2016 zaradený do kategórií A* (rok 2007), A (rok 2012) a B (rok 2016). V roku 2022 prebehlo nové hodnotenie ústavov SAV za obdobie 2016-2021, pričom aj v tomto hodnotení dosiahol ústav hodnotenie B, čo svedčí o vysokej a stabilnej kvalite vedecko-výskumnej práce a ostatných zohľadňovaných ukazovateľoch.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
	A	B	Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	16	2	178721	178721	-	-	10152	-
2. Projekty APVV	7	14	-	-	364893	261048	-	124223
3. Projekty EŠIF/OP ŠF	1	6	-	-	366668	366668	-	235262
4. Projekty SASPRO, MoRePro, IMPULZ	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	4	0	2000	2000	46608	46608	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2022

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2022	-	5	
2. Projekty výziev EŠIF podané r. 2022	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2022

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
	A	B	Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	1	-	-	-	-	2500	76344
2. Projekty ERA.NET, ESA, JRP	1	0	25000	25000	-	-	-	-
3. Projekty COST	0	12	-	-	-	-	26875	3876
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	1	-	-	-	-	2500	2158
5. Projekty v rámci medzivládnych dohôd	3	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1500	1500	-	-	-	-
7. Bilaterálne projekty ostatné	1	0	-	-	10000	10000	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	2	0	-	-	7053	7053	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	1	-	-	-	-	3750	5088

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

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2022

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

	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 B.

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

Chemický ústav SAV, ako žiadateľ, resp. ako partner v projektoch sa zapojil v období 2018-2020 do ďalších výziev čerpania ŠF EU v operačných programoch „Výskum a inovácie a Integrovaná infraštruktúra“, s výsledkom schválenia ôsmich projektov na financovanie (predpoklad ukončenia jún 2023). V súčasnosti sú projekty priebežne implementované aj na úrovni refundácii miezd ako aj prípravy a realizácie verejných obstarávaní k nákupu rozpočtovaných chemikálií, spotrebného materiálu a prístrojov.

V roku 2022 bolo čerpanie finančných prostriedkov najmä pri refundácií miezd vo výške cca. 1 175 000 € v ôsmich projektoch. Po úspešnej realizácii už vyhlásených VO na chemikálie, laboratórny spotrebný materiál a chromatografický materiál, bolo čerpanie finančných prostriedkov na úrovni približne 2 450 000 €.

Taktiež prebiehajú prípravy na možné zapojenie sa ústavu v roku 2023 do výzvy z Fondu obnovy ohľadne zníženia energetickej náročnosti budov verejnej správy, kde by sa ústav zúčastnil ako spolužiadateľ spolu s Ústavom anorganickej chémie, Fyzikálnym ústavom, Ústavom vied o zemi a Centra spoločných činností. Prípravy sú v štádiu analýzy finančnej rentability projektovej žiadosti.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022

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

Identifikácia nových štruktúr exopolysacharidov produkovaných cyanobactériou a mikroriasou s imunobiologickými a farmakodynamickými účinkami pre potenciálne biotechnologické aplikácie (Capek, Matulová, Uhliariková, Košťálová)

V rámci štúdia zameraného na hľadanie mikrorias (siníc a rias) s významnou produkciou extracelulárnych biopolymérov (EPS), sme izolovali z kultivačných médií sinice *Nostoc* cf. *linckian* a zelenej mikroriasy *Dictyosphaerium chlorelloides* surové produkty exopolysacharidov, ktoré boli po purifikácii podrobené detailnej charakterizácii štruktúry. Objasnila sa primárna štruktúra doposiaľ neznámeho laktylovaného biopolyméru, ktorého hlavný reťazec pozostával z jednotiek glukózy, galaktózy a xylózy, substituovaný v bočných reťazcoch jednotkami manózy a

laktylovanou kyselinou glukurónovou. Veľmi viskózny EPS produkovaný mikroriasou *D. chlorelloides* predstavoval zmes arabinogalaktánov a ramnogalaktánov, líšiacich sa variabilitou zloženia monosacharidov, typmi ich väzieb, molekulovou hmotnosťou a obsahom proteínov, čo indikuje rôznorodosť štruktúr týchto komplexných makromolekúl. Poznanie hlavných štrukturálnych vlastností týchto EPS je prvým dôležitým krokom, ktorý otvára cestu pre ďalšie štúdium ich vlastností, biologických aktivít ako aj potenciálnych biotechnologických aplikácií.

UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - KOŠŤÁLOVÁ, Zuzana - LUKAVSKÝ, Jaromír - CAPEK, Peter. Lactylated acidic exopolysaccharide produced by the cyanobacterium *Nostoc cf. linckia.* In Carbohydrate Polymers, 2022, vol. 276, art. no. 118801. (2021: 10.723 - IF, Q1 - JCR, 1.612 - SJR, Q1 - SJR). ISSN 0144-8617. Dostupné na: https://doi.org/10.1016/j.carbpol.2021.118801 Typ: ADCA

HALAJ, Michal - MATULOVÁ, Mária - CAPEK, Peter. Structural features of biologically active extracellular polysaccharide produced by green microalgae Dictyosphaerium chlorelloides. In International Journal of Biological Macromolecules, 2022, vol. 214, p. 152-161. (2021: 8.025 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2022.05.197 Typ: ADCA

2.3.2. Výsledky aplikačného typu

Stanovenie rakovinových biomarkerov (Bertók, Košútová, Pinková-Gajdošová, Lorencová, Jáné, Híreš, Hrončeková, Aguedo, Blšáková, Vikartovská, Tkáč)

V našej práci sme sa sústredili na stanovenie rakovinových biomarkerov rozličnými prístupmi. Prvým z nich bolo využitie elektrochemickej detekcie CA15-3 („carbohydrate antigen 15-3“), biomarkera viacerých typov rakoviny vrátane rakoviny prsníka tromi rôznymi prístupmi s využitím redoxnej próby (5). Na stanovenie ďalších rakovinových biomarkerov sme využili optické stanovenie v ELISA formáte. Identifikácia glykánov, ktoré môžu identifikovať rezistenciu bunkových línií voči cis-platine bola uskutočnená špecifickou glykoprofiláciou hCG (ľudský choriogonandropín) s využitím protilátok a lektínov v sendvič konfigurácii (4). Anti-glykánové protilátky ako rakovinové biomarkery boli stanovené s využitím magnetických častíc na obohatenie anti-glykánových protilátok a následne na ich veľmi citlivé stanovenie (3). V práci sme využili aj exozómy (extracelulárne vezikuly) ako možný zdroj rakovinových biomarkerov. Proces izolácie exozómov sme optimalizovali, následne charakterizovali spôsob ich stabilizácie a po izolácii a vyvinuli metódy na ich ďalšiu charakterizáciu (SPR – surface plasmon resonance a fluorescenčná microarray) (2). Na obohatenie glykánov ako biomarkerov rakoviny sme využili nový a veľmi perspektívny 2D nanomateriál MXén schopný prekoncentrovať hlavne glykány asociované so vznikom a rozvojom rakoviny (1).

1. AGUEDO, Juvissan – PAKANOVA, Zuzana – LORENCOVA, Lenka – NEMCOVIC, Marek – KASAK, Peter – BARATH, Peter – FARKAS, Pavol – TKAC, Jan. MXene as a novel cartridge for N-glycan enrichment. In : Analytica Chimica Acta, 1234 (2022) 340512. Dostupné na: https://doi.org/10.1016/j.aca.2022.340512 Typ: ADCA

2. BERTÓKOVÁ, Anikó - ŠVECOVÁ, Natália – KOZICS, Katarína - GÁBELOVÁ, Alena – VIKARTOVSKÁ, Alica – JÁNÉ, Eduard – HÍREŠ, Michal - BERTÓK, Tomáš – TKÁČ, Ján. Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. In:Biomedicine & Pharmacotherapy, 151 (2022) 113093. Dostupné na: https://doi.org/10.1016/j.biopha.2022.113093 Typ: ADCA

3. BLSAKOVA, Anna – KVĚTOŇ, Filip - LORENCOVÁ, Lenka - BLIXT, Ola -

VIKARTOVSKÁ, Alica - KASAK, Peter – TKAC, Jan. Amplified suspension magnetic bead-based assay for sensitive detection of anti-glycan antibodies as potential cancer biomarkers. In: *Analytica Chimica Acta*. 2022, 1195, 339444. Dostupné na:https://doi.org/10.1016/j.aca.2022.339444 Typ: ADCA

4. HÍREŠ, Michal - JANE, Eduard – KALAVSKA, Katarina – CHOVANEC, Michal – MEGO, Michal - KASAK, Peter – BERTOK, Tomas – TKAC, Jan. Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG). In: *Cancer Medicine*. 2022, p. 1-15. Dostupné na:https://doi.org/10.1002/cam4.4515 Typ: ADCA

5. PINKOVA-GAJDOSOVA, Veronika - LORENCOVA, Lenka - KASAK, Peter - JERIGOVA, Monika - VELIC, Dusan – OROVCIK, Lubomir – BARATH, Marek - FARKAS, Pavol – TKAC, Jan. Redox features of hexaammineruthenium(III) on MXene modified interface: Three options for affinity biosensing. In: *Analytica Chimica Acta.* 1227 (2022) 340310. Dostupné na: https://doi.org/10.1016/j.aca2022.340310 Typ : ADCA

2.3.3. Výsledky na báze medzinárodnej spolupráce

Príprava a vlastnosti nanoštruktúr dopovaného ZnO (Mičová)

Metódou hydrotermálneho rastu sa podarilo pripraviť niekoľko sérií dopovaných nanoštruktúr ZnO. Najväčšia pozornosť sa sústredila na dopovanie Mo, Er, resp. Ga. V spolupráci s partnerským pracoviskom, Fyzikální ústav AV ČR, v. v. i., boli pripravené štruktúry charakterizované spektroskopickými metódami (FTIR, Raman, XPS). Kryštalografické štruktúry boli určené pomocou röntgenovej difrakčnej analýzy, morfológia ich povrchov bola detegovaná pomocou elektrónovej skenovacej mikroskopie. Elektrónové stavy boli študované elektrónovou paramagnetickou rezonanciou (EPR) a optickou absorpčnou spektroskopiou. Centrá defektov boli detegované fotoluminiscenčnou spektroskopiou. Ďalej sa uskutočnilo plazmatické ošetrenie (kyslíková príp. vodíková plazma) pripravených nanoštruktúr na báze ZnO. Na základe experimentov fotodegradácie farbív sa dá predpokladať, že vplyv plazmatického ošetrenia je väčší ako vplyv dopingu na fotokatalytické účinky ZnO.

BURYI, Maksym - BABIN, Vladimír - REMEŠ, Zdenek - MIČOVÁ, Júlia. Charge Trapping processes in hydrothermally grow Er-doped ZnO. In Radiation Measurements, 2022, vol. 150, art. no. 106700. (2021: 1.743 - IF, Q2 - JCR, 0.569 - SJR, Q2 - SJR). ISSN 1350-4487. Dostupné na: https://doi.org/10.1016/j.radmeas.2021.106700 Typ: ADCA

BURYI, Maksym - REMEŠ, Zdeněk - BABIN, Vladimír - ARTEMENKO, Anna - CHERTOPALOV, Sergii - MIČOVÁ, Júlia. Cold plasma treatment of ZnO:Er nano- and microrods: The effect on luminescence and defects creation. In Journal of Alloys and Compounds, 2022, vol. 895, art. no. 162671 [17] p. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2021.162671 Typ: ADCA

MIČOVÁ, Júlia - REMES, Zdenek - ARTEMENKO, Anna - BURYI, Maksym - LEBEDA, Miroslav - CHANG, Yu Ying. Plasma Treatment of Ga-Doped ZnO Nanorods. In Physica Status Solidi A : applications and materials science, 2022, vol. 219, no. 10, art. no. 2100663. (2021: 2.170 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 1862-6300. Dostupné na: https://doi.org/10.1002/pssa.202100663 Typ: ADCA

2.4. Publikačná činnosť (zoznam je uvedený v prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2022/ doplnky z r. 2021
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)	**0 / 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)	**46 / 1**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**10 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 1**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**1 / 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)	**17 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**6 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**0**
19. Zostavovateľské práce knižného charakteru (FAI)	**2 / 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)	**1 / 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. 2021 (zdroj JCR) *Počet článkov / doplnky*	26 / 1	10 / 0	9 / 0	3 / 0	48 / 1
Podľa SJR z r. 2021 (zdroj Scimago) *Počet článkov / doplnky*	30 / 1	11 / 0	8 / 0	6 / 0	55 / 1

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2021/ doplnky z r. 2020
Citácie vo WOS (1.1, 2.1)	3084 / 365
Citácie v SCOPUS (1.2, 2.2)	347 / 180
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 1
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	22
Prednášky a vývesky na národných vedeckých podujatiach	95

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

HRICOVÍNI Miloš: NMR and DFT analysis of 3D structure and spin-spin coupling constants in biologically active saccharides, 22nd Central European NMR Meeting, 20.9. – 23.9.2022, Varšava, Poľsko

MASTIHUBA Vladimír: Glycosidases as a syntetic tool in biocatalysis.15th Bratislava Symposium on Saccharides, 20.- 24.6.2022, Smolenice, Slovensko

BERTÓK Tomáš, TKÁČ Ján: Zmeny v glykozylácii ako marker onkologických ochorení. Brněnské onkologické dny. 12. -14.10.2022, Výstavište Brno. Česká republika

PAKANOVÁ Zuzana, NEMČOVIČ Marek, KODRÍKOVÁ Rebeka, KRCHŇÁK Maroš, PANČÍK Filip, KVĚTOŇ Filip, MUCHA Ján, BARÁTH Peter. Mass spectrometry in glycoconjugate analysis. Chemistry towards Biology 10, Instruct, 11 – 14.9.2022 Bratislava, Slovensko

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

BERTÓK Tomáš. Nový typ skríningu karcinómov prostaty: slovenská inovácia s európskou podporou. In: VI. Onkourologické sympózium:karcinóm prostaty II. 25. – 26.11. 2022, Hotel Grand, Demänovská dolina.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

HRONČEKOVÁ Štefánia. Elektrochemické biosenzory ako potenciálna platforma na včasnú diagnostiku nádorových ochorení (seminár pre študentov a odbornú verejnosť: „Elektrochemické

(bio)senzory pre analytické a biomedicínske aplikácie“). 8.11.2022, FCHPT STU Bratislava. (Na spoluorganizácii sa podieľala Odborná skupina analytické chemie České společnosti chemické a Divízia analytickej chémie EuChemS s podporou firmy Metrohm).

VADKERTIOVÁ Renáta, PIPIKOVÁ Jana, HORVATHOVÁ Ágnes. Diverzita a taxonómia kvasiniek – malý náhľad do veľkej témy. In Praktické otázky Sbírek kultur mikroorganizmů 2022. Praha - aula VÚRV, 24.11.2022

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022

2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2022

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2022

b) udelené v roku 2022

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 2022 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
Baráth Marek	VEGA	2
Katrlík Jaroslav	APVV	3

Lux Alexander	KEGA	1
Mastihuba Vladimír	VEGA	1
Šedivá Mária	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
Biely Peter	1	2	9	0	0	0	0
Bučko Marek	0	0	2	0	0	0	0
Capek Peter	0	0	2	0	0	0	0
Farkaš Pavol	0	0	4	0	0	1	0
Fizer Maksym	0	0	50	0	0	0	0
Fizer Oksana	0	0	2	0	0	0	0
Gemeiner Peter	0	0	2	0	0	0	0
Hricovíni Miloš	0	0	2	0	0	0	0
Hrončeková Štefánia	0	0	0	0	0	1	3
Katrlík Jaroslav	0	0	3	0	0	0	0
Kollárová Karin	0	0	7	0	0	0	0
Kozmon Stanislav	0	0	2	0	0	0	0
Lorencová Lenka	0	0	3	0	0	0	0
Lux Alexander	0	0	8	0	0	0	0
Mastihuba Vladimír	0	0	3	0	0	0	0
Mičová Júlia	0	0	1	0	0	0	0
Petruš Ladislav	0	0	1	0	0	0	0
Poláková Monika	0	0	1	0	0	0	0
Schusterová Hana	0	0	5	0	0	0	0
Sládek Vladimír	0	1	0	0	0	0	0
Šimkovic Ivan	0	5	0	0	0	0	0
Šuchová Katarína	0	0	2	0	0	0	0
Tkáč Ján	0	0	14	0	0	0	0
Vadkertiová Renáta	0	0	6	0	0	0	0

Vivodová Zuzana	0	0	10	0	0	0	0
Spolu	**1**	**8**	**139**	**0**	**0**	**2**	**3**

2.11. Iné informácie k vedeckej činnosti.

Z celkového počtu 57 vedeckých prác v časopisoch je 47 publikovaných v periodikách evidovaných v Current Contents Connect (CCC) (kategórie ADCA a ADDA), 10 prác je v časopisoch evidovaných vo Web of Science (WOS) a Scopus (kategórie ADMA, ADNA a ADNB).

Impakt faktor (IF) periodík, v ktorých sú publikácie uverejnené, sa pohybuje od 1.436 do 17.681 (v dvoch prípadoch presahuje IF 10, v šiestich prípadoch presahuje IF 7, v jedenástich prípadoch presahuje IF 6, v troch prípadoch presahuje IF 5, v ôsmich prípadoch presahuje IF 4 a v šiestich prípadoch presahuje hodnotu IF 3, pričom jeho priemerná hodnota 5.055 (oproti vlaňajšej hodnote nárast o 0.362) vo všetkých prípadoch presahuje hodnoty medián impakt faktora (MIF) pre vedné oblasti, v ktorých na ústave dominuje výskumná činnosť a doktorandské štúdium (MIF = 3.414 pre Biotechnology & Applied Microbiology, 2.226 pre Chemistry Organic, 4.228 pre Biochemistry & Molecular Biology, 2.984 pre Polymer Science a 3.841 pre Chemistry Physical), čo indikuje vysokú kvalitu publikovaných prác. Túto skutočnosť potvrdzujú aj údaje o quartiloch pre dané časopisy: podľa SJR sa 55.4 % z týchto časopisov nachádza v Q1 a 19.6 % v Q2 (spolu 75.0 % v Q1 a Q2). Podľa JCR je to 55.1 % v Q1 a 20.4 % v Q2 (spolu 75.5 % v Q1 a Q2).

Celkový počet citácií 3977 (z toho 3975 sú citácie vo WOS a Scopus) predstavuje výrazné zlepšenie citovanosti oproti minulého roku (3419), pričom u citácií z WOS a Scopus sa zaznamenal signifikantný nárast (o 558), čo možno tiež považovať za cenný kvantitatívny ale aj kvalitatívny ukazovateľ.

Na zahraničných a domácich vedeckých podujatiach bolo prezentovaných 117 príspevkov (prednášky a postre).

Prístup do elektronických databáz Clarivate (Web of Science, Current Contents Connect, Journal of Citation Reports) a databázy Scopus ako aj iných veľmi užitočných plnotextových databáz (ScienceDirect, Wiley Online Library, De Gruyter, SpringerLink, Knovel, Sage Premier) značne uľahčuje a zefektívňuje vyhľadávanie a sumarizovanie bibliografických ako aj kvantitatívnych a kvalitatívnych scientometrických údajov. Je poľutovaniahodné, že z financovaných databáz vypadli v roku 2021 databázy SciFinder a Reaxys (veľmi potrebné najmä pre oblasť organickej a analytickej chémie a biochémie). Apelujeme na kompetentných, aby na ďalšie obdobie opätovne zabezpečili prístup aj do týchto databáz. Aj keď o užitočnosti časovo obmedzených prístupov do plnotextových databáz niektorých vydavateľstiev, sprostredkovaných Ústrednou knižnicou SAV niet pochýb, značným prínosom pre pracovníkov CHÚ SAV by bolo získanie prístupu do plných textov vybraných časopisov z databáz ACS Publications (American Chemical Society), RSC Publishing (Royal Chemical Society), Thieme Journals (Thieme Medical Publishers), BenthamDirect (Bentham Science Publishers) a Taylor & Francis Group.

Značný počet vyžiadaných recenzií vedeckých prác v zahraničných časopisoch a grantových projektov zo zahraničia svedčí o vysokej medzinárodnej reputácii ústavu. To sa následne prejavuje pôsobením pracovníkov ústavu ako zahraničných expertov, členstvom resp. funkciami v rôznych medzinárodných organizáciách a vedeckých spoločnostiach, redakčných radách domácich i zahraničných časopisov ako aj organizačných výboroch medzinárodných vedeckých konferencií resp. pozvaniami prednášok na zahraničných univerzitách a iných vedecko-výskumných inštitúciách a vedecko-odborných podujatiach.

O vysokej medzinárodnej úrovni vedeckých prác publikovaných na CHÚ SAV, v. v. i. svedčia aj výsledky z Periodického hodnotenia výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti, ktoré bolo vyhlásené Ministerstvom školstva, vedy, výskumu a športu SR v súlade s Plánom obnovy a odolnosti SR. Realizovalo sa formou kvalitatívneho hodnotenia obsahu výstupov tvorivej činnosti výskumných tímov vysokých škôl a verejných výskumných inštitúcií za obdobie 2014-2019. Pri hodnotení kvality v oblasti Chemické vedy, 16 % výstupov dosiahlo významnú medzinárodnú úroveň a až 64 % bolo na medzinárodnej úrovni (viď obr.1). Výsledky hodnotenia boli zverejnené na stránke MŠVVaŠ https://ver.cvtisr.sk/vysledky/.

Vyzdvihnúť treba značnú aktivitu pri vypracúvaní vedeckých projektov a úspešnosť pri získavaní grantov. Úhrnne sa riešilo 73 vedeckých projektov (vrátane 7 projektov ŠF EÚ) - z toho 50 domácich (VEGA - 18, APVV - 21, iné - 11) a 23 zahraničných (1 projekt H2020, 1 projekt JRP, 12 projektov COST, 3 projekty v rámci medzivládnych dohôd o VTS a 2 bilaterálne projekty), pričom z čerpaných finančných prostriedkov (cca 1 640 000 €), bolo cca 135 000 € zo zahraničných projektov, cca 909 000 € z domácich projektov a cca 39 000 € bola podpora medzinárodnej spolupráce z národných zdrojov (MVTS a APVV) na projekty COST, čo je vzhľadom na nedostatočnú výšku inštitucionálnej dotácie ústavu zo ŠR významný finančný prínos, pomáhajúci zabezpečiť štandardnú prevádzku pracoviska.

Dobudovaním technickej infraštruktúry pre glykomiku a biomedicínsky výskum v roku 2015 (získané finančné prostriedky z dvoch projektov OP ŠF vo výške 17,68 mil. € sa využili najmä na nákup prístrojov a príslušenstva) sa CHÚ SAV zaradil medzi moderné pracoviská v tejto oblasti.

Ústav trvale venuje pozornosť uplatneniu dosiahnutých výsledkov v priemyselnej praxi (priame kontakty s výrobnými podnikmi a súkromnými spoločnosťami, dohody o spolupráci, spoločné vedecko-výskumné projekty zamerané na realizáciu, účasť na výstavách), a to tak doma ako aj v zahraničí.

3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2022

Forma	Počet k 31.12.2022				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2022					
							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	7	9	0	2	4	11	1	5	0	0	0	1
Denná z iných zdrojov	1	1	0	0	1	1	0	0	0	0	0	0
Externá	0	3	0	2	0	0	0	0	0	1	0	0
Spolu	8	13	0	4	5	12	1	5	0	1	0	1
Z toho zahraničných	2	2	0	1	1	1	0	0	0	0	0	0
Súhrn	21		4		17		6		1		1	

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 2022 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.

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b 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	2	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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
Ing. Anna Blšáková	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	4.1.22 biochémia	Ing. Ján Tkáč DrSc., Chemický ústav SAV, v. v. i.	Fakulta chemickej a potravinárskej technológie STU
Ing. Štefánia Hrončeková	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	5.2.25 biotechnológie	Ing. Tomáš Bertók PhD., Chemický ústav SAV, v. v. i.	Fakulta chemickej a potravinárskej technológie STU
Ing. Martin Kalník	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	4.1.16 organická chémia	Ing. Maroš Bella PhD., Chemický ústav SAV, v. v. i.	Fakulta chemickej a potravinárskej technológie STU
Ing. Lucia Pažitná	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	5.2.25 biotechnológie	Ing. Jaroslav Katrlík PhD., Chemický ústav SAV, v. v. i.	Fakulta chemickej a potravinárskej technológie STU
RNDr. Veronika Pinková Gajdošová	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	5.2.25 biotechnológie	Ing. Ján Tkáč DrSc., Chemický ústav SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Barbora Stratilová	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	4.1.18 fyzikálna chémia	Mgr. Stanislav Kozmon PhD., Chemický ústav SAV, v. v. i.	Prírodovedecká fakulta UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)	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
6	5	1	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/2, EGY/1, PER/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.

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

Tabuľka 3g 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)	Kód ŠO	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
Chémia	1420	Univerzita Komenského, Prírodovedecká fakulta
Chémia	1420	STU, Fakulta chemickej a potravinárskej technológie
Biológia	1536	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	2908	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	2908	STU, Fakulta chemickej a potravinárskej technológie
Názov študijného programu (ŠP)	**Kód ŠP**	**Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)**
Organická chémia	12408	Univerzita Komenského, Prírodovedecká fakulta
Organická chémia	4621	STU, Fakulta chemickej a potravinárskej technológie
Fyzikálna chémia	100620	Univerzita Komenského, Prírodovedecká fakulta
Fyzikálna chémia	4625	STU, Fakulta chemickej a potravinárskej technológie
Biochémia	12461	Univerzita Komenského, Prírodovedecká fakulta
Biochémia	4627	STU, Fakulta chemickej a potravinárskej technológie
Fyziológia rastlín	12438	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	12460	Univerzita Komenského, Prírodovedecká fakulta
Biotechnológie	4626	STU, Fakulta chemickej a potravinárskej technológie
Makromolekulová chémia	4620	STU, Fakulta chemickej a potravinárskej technológie
Mikrobiológia	100750	Univerzita Komenského, Prírodovedecká fakulta
Analytická chémia	12469	Univerzita Komenského, Prírodovedecká fakulta

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 3h 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**
Ing. Maroš Bella, PhD. (chémia)		Ing. Michal Hricovíni, PhD. (IIa)
RNDr. Peter Biely, DrSc. (biochémia)		RNDr. Iveta Uhliariková, PhD. (IIa)
Ing. Peter Gemeiner, DrSc. (biotechnológie)		Ing. Anna Blšáková, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Ján Hirsch, DrSc. (organická chémia)		Ing. Štefánia Hrončeková, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Miloš Hricovíni, PhD. (chemická fyzika)		Ing. Lucia Pažitná, PhD. (PhD., Fakulta chemickej a potravinárskej technológie STU)
Ing. Jaroslav Katrlík, PhD. (chémia)		RNDr. Veronika Pinková Gajdošová, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Karin Kollárová, PhD. (fyziológia rastlín)		Mgr. Barbora Stratilová, PhD. (PhD., Univerzita Komenského v Bratislave)
Mgr. Stanislav Kozmon, PhD. (fyzikálna chémia)		Mgr. Kristína Šípošová, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Lenka Lorencová, PhD. (fyzikálna chémia)		
prof. RNDr. Alexander Lux, CSc. (fyziológia rastlín)		
prof. RNDr. Alexander Lux, CSc. (odbor v zahraničí)		
Ing. Vladimír Mastihuba, PhD. (chémia a technológia požívatín)		
Ing. Vladimír Mastihuba, PhD. (biotechnológie)		
doc. Ing. Ladislav Petruš, DrSc. (organická chémia)		
Mgr. Vladimír Puchart, PhD. (biochémia)		
Mgr. Vladimír Puchart, PhD. (biotechnológie)		
Ing. Vladimír Sládek, PhD. (fyzikálna chémia)		
Ing. Ján Tkáč, DrSc. (analytická chémia)		
Ing. Ján Tkáč, DrSc. (biochémia)		
Ing. Ján Tkáč, DrSc.		

(biotechnológie)		
Ing. Igor Tvaroška, DrSc. (fyzikálna chémia)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	7	0	11	0
Celkový počet hodín v r. 2022	18	0	818	0

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	**Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác**	12
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	13
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	17
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	32
5.	**Počet oponovaných dizertačných a habilitačných prác**	12
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	6
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	3
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	9
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	2

3.9. Iné dôležité informácie k pedagogickej činnosti

Chemický ústav SAV mal v roku 2021 akreditované 2 študijné odbory doktorandského štúdia na Fakulte chemickej a potravinárskej technológie STU (1420 Chémia a 2908 Biotechnológie) a 3 študijné odbory doktorandského štúdia na Prírodovedeckej fakulte UK v Bratislave (1420 Chémia, 2908 Biotechnológie a 1536 Biológia). Na základe podpísaných dohôd s týmito fakultami má ústav právo školiť (ako EVI) v doktorandských študijných programoch 4621 organická chémia, 4625 fyzikálna chémia, 4627 biochémia, 4626 biotechnológie a 4620 makromolekulová chémia na FCHPT STU a v študijných programoch 12408 organická chémia, 100620 fyzikálna chémia, 12461 biochémia, 12468 analytická chémia, 12460 biotechnológie, 12438 fyziológia rastlín a 100750 mikrobiológia na PriF UK v Bratislave. V priebehu roka 2022 sa na CHÚ SAV školilo celkom 21 doktorandov (z toho 4 novoprijatí - 2 v dennej forme štúdia a 2 v externej forme štúdia), z ktorých 6 úspešne obhájili doktorandskú dizertačnú prácu. Zvýšil sa počet záujemcov o doktorandské štúdium na ústave, pričom najväčší záujem zo strany študentov je najmä o študijné odbory biotechnológie a biochémia. Dlhodobo menší záujem zo strany študentov je o ostatné odbory (fyzikálna chémia, makromolekulová chémia a organická chémia), napriek tomu, že ústav aj v týchto odboroch disponuje dostatočným počtom kvalitných školiteľov. Tento trend spôsobuje zrejme skutočnosť, že v týchto odboroch končí na VŠ menší počet študentov, a týchto si

prioritne prijmú na doktorandské štúdium jednotlivé fakulty. Dá sa predpokladať, že v roku 2023 by malo doktorandskú dizertačnú prácu obhajovať 7 doktorandov. Svoje požiadavky, návrhy, resp. pripomienky majú možnosť doktorandi predniesť, okrem iného, aj na Ústavnej rade prostredníctvom svojho voleného zástupcu. Doktorandi a mladí vedeckí pracovníci sa aktívne zapájajú do vedeckého a spoločenského života na ústave. Oceniť treba najmä ich vedecko-popularizačné aktivity. Viacerí sa aktívne zapájajú aj do pedagogickej činnosti. Okrem vedenia semestrálnych cvičení sú to napr. aktivity na stredných školách a aktivity v rámci Týždňa vedy a techniky na Slovensku a Noci výskumníkov.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 16.05.-20.05.2022
V dôsledku pandémie COVID-19 bolo toto podujatie zrušené a presunuté do roku 2023.

8. Medzinárodné sympózium o štruktúre a funkcii koreňov, Grand Hotel Bellevue, Horný Smokovec, Slovensko, 90 účastníkov, 12.06.-16.06.2022

15. Bratislavské sympózium o sacharidoch, Kongresové centrum SAV, Smolenice, Slovensko, 120 účastníkov, 20.06.-24.06.2022

Chémia smerom k biológii 10 a INSTRUCT-ULTRA míting o štruktúre biomolekúl, Bratislava, Slovensko, 93 účastníkov, 11.09.-14.09.2022

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

47th Annual Conference on Yeasts/47. Výročná konferencia o kvasinkách, Kongresové centrum SAV, Smolenice, Slovensko, 16.05.-19.05.2023, (Renáta Vadkertiová, 02/ 59410216, 02/ 59410262, chemvad@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Baráth Marek	0	0	1
Blahutová Jana	0	1	0
Bučko Marek	0	1	0
Guthová Jana	0	2	0
Hricovíni Miloš	0	0	1
Katrlík Jaroslav	0	0	1
Kollárová Karin	0	2	0
Kóňa Juraj	0	1	0
Kučerová Danica	0	1	0
Lorencová Lenka	0	1	0
Lux Alexander	0	0	1
Schusterová Hana	0	1	0
Šípošová Kristína	0	1	0
Uhliariková Iveta	0	1	0
Vadkertiová Renáta	0	0	1
Vivodová Zuzana	0	1	0
Spolu	0	13	5

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Peter Biely, DrSc.

International Academy of Wood Science (funkcia: volený člen (Fellow of IAWS))

Mgr. Peter Capek, PhD.

Management Committee COST Action CA18238 (funkcia: národný zástupca)

Ing. Pavol Farkaš, PhD.

Management Committee CA COST Action CA16231 (funkcia: národný zástupca)
Management Committee CA COST Action CA21145 (funkcia: národný zástupca)

Ing. Peter Gemeiner, DrSc.

Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Ing. Michal Híreš, PhD.

Československá spoločnosť mikrobiologická (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

European Carbohydrate Organization (funkcia: národný reprezentant)
INSTRUCT-ERIC (European Research Infrastructure Consortium) (funkcia: zástupca SR)
International Carbohydrate Organization (funkcia: národný reprezentant)
Management Committee COST Action CA18103 (funkcia: národný zástupca)

Mgr. Elena Karnišová Potocká, PhD.

Management Committee COST Action CA20127 (funkcia: národný zástupca)

Ing. Jaroslav Katrlík, PhD.

International Glycoconjugate Organisation (funkcia: národný reprezentant)
Management Committee COST Action CA18132 (funkcia: národný zástupca)
Management Committee COST Action CA20117 (funkcia: národný zástupca)

RNDr. Jaroslav Klaudiny, PhD.

European Peptide Society (funkcia: člen)

Ing. Zuzana Košťálová, PhD.

Management Committee COST Action CA18101 (funkcia: národný zástupca)
Management Committee COST Action CA18224 (funkcia: národný zástupca)

Mgr. Eva Labancová, PhD.

Management Committee COST Action CA21134 (funkcia: národný zástupca)

prof. RNDr. Alexander Lux, CSc.

COST action CA19116 Trace Metal Metabolism on Plants (funkcia: zástupca v MC)
Federation of European Societies of Plant Biology (FESPB) (funkcia: člen)
International Society for Silicon in Agriculture (ISSAG) (funkcia: člen)
Japaneese Society for Plant Roots (funkcia: člen)

Ing. Vladimír Mastihuba, PhD.

Management Committee COST Action CA18103 (funkcia: národný zástupca)
Management Committee FPS COST Action CA17128 (funkcia: národný zástupca)

Ing. Mária Mastihubová, PhD.

American Chemical Society (funkcia: člen)
Management Committee COST Action CA18132 (funkcia: MC Substitute)
Management Committee COST Action CA18224 (funkcia: národný zástupca)

RNDr. Ján Mucha, CSc.

Steering Committee of the ESF RNP in LEE „The EuroGlycosciences Forum" (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

American Society for Mass Spectrometry (funkcia: člen)
Arbeitsgruppe für Molekül-Spektroskopie der Österreichischen Gesellschaft für Analytische Chemie (funkcia: člen)
International Society for Mass Spectrometry (funkcia: reprezentant Slovenska)

doc. Ing. Ladislav Petruš, DrSc.

Česká společnost chemická (funkcia: čestný člen)

Ing. Hana Schusterová, PhD.

Československá spoločnosť mikrobiologická (funkcia: tajomníčka výboru Komisie pre kvasinky)

Ing. Katarína Šuchová, PhD.

Management Committee CA COST Action CA18229 (funkcia: národný zástupca)

Ing. Ján Tkáč, DrSc.

American Chemical Society (funkcia: člen)
Bioelectrochemical Society (funkcia: člen)
Bioencapsulation Research Group (Europe-Canada) (funkcia: člen)

Management Committee COST Action CA18132 (funkcia: národný zástupca)

Ing. Igor Tvaroška, DrSc.

International Steering Committee of the International Consortium on Anti-Virals (ISC ICAV) (funkcia: člen)

Ing. Renáta Vadkertiová, PhD.

Československá spoločnosť mikrobiologická (funkcia: podpredsedníčka výboru Komisie pre kvasinky)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Biely Peter	Independent Research Fund Denmark/Natural Sciences, Nest-CAZymes, N. 2067-00019A	1
Hricovíni Miloš	Hungarian Academy of Sciences	1
Katrlík Jaroslav	HORIZON-MSCA-2022-PF	8

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

V roku 2022 bola od 14. marca do 14. apríla na návšteve Chemického ústavu SAV na Oddelení Imunochémie Glykokonjugátov Anna Bzducha Wróbel z Warsaw University of Life Sciences WULS-SGGW, Institute of Food Sciences, Department of Food Biotechnology and Microbiology. Pobyt bol hradený z projektu SAIA. Výsledkom práce je memorandum o ďalšej spolupráci, jedna publikácia bola už publikovaná (píše sa druhá) a spolupráca sa formalizovala aj asistenciou pri školení doktoranda v Poľsku a podaním tri-laterálneho projektu v Poľsku (Poľsko, Slovensko, Česko).

V dňoch 4. mája až 8. júna 2022 absolvoval v Laboratóriu biokatalýzy a organickej syntézy Chemického ústavu SAV odbornú stáž MSc. Christiano Conceição, doktorand Bioorganic Chemistry Laboratory - ITQB NOVA, Oeiras v Portugalsku. Pobyt bol hradený z projektu SAIA. Študent si osvojil techniky selektívnej enzýmovej protekcie a deprotekcie pentofuranóz.

Od septembra 2021 na pôde Bioorganic Chemistry Laboratory - ITQB NOVA, Oeiras v Portugalsku pôsobí Ing. Peter Kis, PhD. z Laboratória biokatalýzy a organickej syntézy Chemického ústavu SAV, ktorý získal Widening Participation and Spreading Excellence grant (agreement No. 101090282) v rámci EU Horizon Europe research and innovation programe. V laboratóriách portugalského partnera sa zaoberá syntézou bakteriálnej signálnej molekuly pre quorum sensing.

V období 11.9.-19.10.2022 absolvovala na pôde i3S, University of Porto stáž Ing. Kristína Kianičková. Stáž absolvovala v rámci projektu COST Action CA18103 INNOGLY. V pracovnej skupine prof. Reisa sa venovala extrakcii proteínov z tkanivových vzoriek a ich následnej analýze pomocou lektínového blotu a absolvovala kurz Workshop on cancer research.

V období marec až august 2022 pôsobil v Laboratóriu biokatalýzy a organickej syntézy

Chemického ústavu SAV Dr. Juan Carlos Contreras Esquivel z School of Chemistry, Universidad Autonoma de Coahuila v Mexiku (štát Coahuila) ako visiting scientist. Počas svojho pobytu sa zaoberal izoláciou a charakterizáciou enzýmov vhodných pre glykozylácie tyrozolu a hydroxytyrozolu. V príprave je jedna vedecká publikácia sumarizujúca výsledky jeho výskumu na pôde Chemického ústavu.

V decembri 2022 ústav podpísal Memorandum o Spolupráci s významnou univerzitou v Indii, *Maharshi Dayanand University Rohtak* pričom delegácia z univerzity prejavila značný záujem o spoluprácu hlavne v oblasti glykochémie, glykobiochémie, glykobiotechnológie a využitia hmotnostnej spektrometrie.

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

5. Koncepcia dlhodobého rozvoja organizácie

5.1. Odporúčania z posledného pravidelného hodnotenia organizácií SAV (akreditácie)

Comments and recommendations for further improvement and development of the institute

The present Institute has been formed through multiple mergers and reorganizations, and quite probably has reached some optimal structure, has experienced staff, and is equipped with necessary apparatus. Therefore, there seems to be no immediate need to proceed with some new structural reforms. However, creating of solid strategy for development of research objectives is crucial. This is simplified by the fact that the main focus of the Institute is still on carbohydrate research.

The main topics and objectives of the research must be harmonized with contemporary research trends in the World, and especially in USA. There are many scientific, methodical and applications breakthroughs already visible in the Glycoscience Roadmaps of NIH and in perspective plans of the European Glycosience Community. These are based on advancements in analytical methods, but also include different aspects of biotechnology and handling of big data. The role of the Yeast Collection may be emphasized in these developments, as this is the biggest existing collection of yeast strains in Europe.

Until now the publication of scientific papers is considered as the main scientific output of the Institute, and a very complicated system for classification of these publications has been constructed. Due to movement of the scientific publishing policy towards the Open Access publication model, it would be wise to reorganize the evaluation system of publishing efficacy and implement the elements of Plan S. At the same time, it is important to develop the options for patenting of reseach results and do this in cooperation with companies and health institutions, It is understandable that this recommendation cannot implemented by the Institute alone, as the system is in use in SAS. But already realizing the necessity of this change may be an important step towards this change.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

A. Zvyšovanie kvantity a kvality výstupov výskumu

- modifikovať existujúci stimulačný model odmeňovania publikačných výstupov jednotlivcov, ktorý bude okrem kategórií karentovaných publikácií ADC a ADD zohľadňovať aj publikácie v impaktovaných nekarentovaných časopisoch podľa WOS a SCOPUS (t.j. kategórie ADM a ADN) ako aj kvartil časopisu;
- na základe pravidelného ročného vyhodnocovania publikačnej činnosti jednotlivcov (priemer za predošlé 4 roky) upravovať osobné hodnotenie a zaraďovanie do platových tried;
- vyhodnocovanie publikačnej činnosti zohľadňovať aj pri možnosti vypisovania tém doktorandských prác resp. pri žiadostiach o pridelenie doktoranda alebo postdoktoranda.

Všetky uvedené opatrenia sa v roku 2022 priebežne realizovali a ďalej sa v nich pokračuje. Medziročne vzrástol počet publikácií v kvalitných vedeckých časopisoch (kvartily prevažne Q1 a Q2 ako aj nárast priemernej hodnoty Impakt Faktoru).

B. Zvyšovanie kvality doktorandského štúdia

- vypracovať interné kritériá CHÚ SAV, v. v. i. pre výber školiteľov; podmienkou je aktívna a kvalitná publikačná činnosť a existencia projektu, v rámci ktorého sa PhD. štúdium realizuje;

- venovať vyššiu pozornosť témam doktorandských prác z hľadiska obsahu, aktuálnosti a experimentálneho zabezpečenia;
- výsledky doktorandov a stav doktorandského štúdia naďalej pravidelne vyhodnocovať;
- zvyšovať podiel zahraničných doktorandov;
- umožniť stáže našich doktorandov v prestížnych laboratóriách a recipročne umožniť stáže zahraničných doktorandov na CHÚ SAV v nadväznosti na uzavreté dohody o spolupráci SAV s kvalitnými univerzitami.

Všetky uvedené opatrenia sa v roku 2022 priebežne realizovali a ďalej sa v nich pokračuje.

C. Kariérny rast postdoktorandov a výskumníkov

- vypracovať podmienky kariérneho rastu postdoktorandov;
- vypracovať podmienky získania stálej pozície.

Tieto podmienky zatiaľ vypracované neboli, ale pre potreby ústavu kariérny rast a získanie stálej pozície zabezpečuje vedenie ústavu v súčinnosti s vedeckou radou.

D. Zvyšovanie úspešnosti v projektovej činnosti

- iniciovať a stimulovať podávanie projektov ERC, ERA, Horizon 2020 a pod., osobitne v kategórii starting a consolidator grant, identifikovať potenciálnych podávateľov a pracovať s nimi;
- pravidelne ročne analyzovať aktivitu organizácie v podávaní projektov;
- pridelenie PhD. študentov podmieňovať získaním grantov u potenciálnych školiteľov.

Všetky uvedené opatrenia sa v roku 2022 realizovali a ďalej sa v nich pokračuje.

E. Manažment ústavu

- vytvoriť nezávislý medzinárodný poradný výbor (advisory board);
- rozvíjať multidisciplinárny výskum v spolupráci s inými vedeckými organizáciami SAV a mimo SAV;
- prehodnocovať činnosť jednotlivých oddelení a optimalizovať zloženie výskumných kolektívov.

Medzinárodný poradný výbor bol vytvorený začiatkom roka 2021. Ostatné opatrenia sa v roku 2022 realizovali priebežne a ďalej sa v nich pokračuje.

F. Nakladanie s duševným vlastníctvom

- pripraviť vlastné pravidlá pre nakladanie s duševným vlastníctvom (patenty a pod.) resp. aplikovať takéto pravidlá spoločné pre celú SAV a stimulovať patentové aktivity vedeckých pracovníkov.

Vlastné pravidlá zatiaľ vypracované neboli a aplikujú sa centrálne usmernenia zo SAV. Stimulácia sa rieši formou odmien. Ústav v roku 2022 podal štyri návrhy na udelenie ochrannej známky a pripravuje jednu novú patentovú prihlášku.

G. Financovanie a riadenie výskumných infraštruktúr

- realizovať pravidelný audit využitia výskumnej infraštruktúry získanej za ostatných 10 rokov a odstrániť zistené nedostatky;
- pravidelne aktualizovať informácie o možnom použití významnejších zariadení pre vonkajších záujemcov tak zo SAV, ako aj mimo SAV;
- participovať na vypracovaní stratégie zapojenia sa svojou infraštruktúrou do tzv. core facility v rámci areálu SAV, prípadne v rámci ESFRI.

Prvé dve opatrenia sa v roku 2022 priebežne realizovali a ďalej sa v nich pokračuje. V súvislosti so zapojením sa do tzv. core facility očakávame, že sa situácia bude riešiť na celoakademickej úrovni a ústav je pripravený sa do týchto aktivít zapojiť.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

V roku 2022 nedošlo k výraznejšej aktualizácii Akčného plánu a priebežne sa plnili alebo modifikovali opatrenia prijaté v minulom období. V decembri 2022 sme obdržali odporúčania z medzinárodného hodnotiaceho panelu, ktorý sa zúčastnil medzinárodnej akreditácie ústavov SAV. Tieto odporúčania teraz analyzujeme a pripravujeme stratégiu ako ich začlenenia do Akčného plánu organizácie na nasledujúce obdobia. Hlavný smer základného výskumu glykobiológia, t.j. sacharidy a ich úloha v organizmoch aj naďalej tvoria vedeckú náplň domácich i zahraničných projektov riešených na pracovisku. Pozornosť sa venuje aj cielenému výskumu realizovanému prostredníctvom hospodárskych zmlúv, kontraktov a plnením dohodnutých záväzkov v rámci zmluvnej spolupráce. Značná časť riešiteľskej kapacity ústavu sa venuje vypracovávaniu projektov a grantových žiadostí, a to nielen v rámci domácich agentúr VEGA a APVV a spolupráce s priemyselnou sférou, ale aj v rámci MVTS, a to najmä vo vedeckých programoch EÚ, bilaterálnych MAD, medziústavnej spolupráce. Ústav sa zapojil do výziev (Výskumnovývojové kapacity, RIS3, SPVVC a DSV) vyhlásených v rokoch 2018 a 2019 (v 3 projektoch ako žiadateľ a v 4 projektoch ako partner). Z týchto projektov bolo 5 schválených na financovanie. V roku 2020 sa ústav zapojil (ako partner) do dvoch výziev (COVID-19). Oba podané projekty boli úspešné a schválené na financovanie so začiatkom riešenia v roku 2021. Organizačné členenie pracoviska na osem vedeckých oddelení, ktoré spolu tvoria Centrum glykomiky, a tri spoločné-nevedecké oddelenia reflektuje hlavné smery výskumu a požiadavky na jeho zabezpečenie. Vývoj v zameraní výskumu v ostatných rokoch (orientácia na biomedicínsky výskum) však naznačuje, že postupne bude žiadúca určitá reorganizácia jednotlivých oddelení. V rámci organizačnej štruktúry sa uplatňuje dvojstupňové riadenie: vedenie ústavu – vedúci vedeckých a spoločných-nevedeckých oddelení.

V súvislosti s viacerými zmenami v zákonoch NR SR, nariadeniach vlády SR, vyhláškach a pokynoch MZ SR týkajúcich sa ochrany zdravia pri práci s nebezpečnými faktormi boli v roku 2008, 2009, 2014 a 2021 novelizované relevantné predpisy pre práce s nebezpečnými chemickými faktormi, biologickým materiálom, GMO a pre zaobchádzanie so zdrojmi ionizujúceho žiarenia, aplikované na pracovné podmienky v CHÚ SAV, v. v. i a získali príslušné oprávnenia od kompetentných orgánov. V roku 2018 boli aktualizované dokumenty súvisiace s civilnou ochranou obyvateľstva a vypracovávali sa dokumenty súvisiace s ochranou osobných údajov (GDPR).

Ústav venuje veľkú pozornosť mladej generácii a omladzovaniu kádrov. V rámci vedeckej výchovy sa na ústave v priebehu roka školí 20–25 doktorandov, pričom každoročne sa vypisujú prijímacie pohovory na cca 5 nových miest interného doktorandského štúdia. Po úspešnej obhajobe doktorandských dizertačných prác sa mladí vedeckí pracovníci spravidla vysielajú na 1–3 ročnú postdoktorandskú stáž do zahraničia, niektorí sa uchádzajú o štipendium z podporného fondu Štefana Schwarza a kompenzačný príspevok. Podľa možností sa ústav snaží takto vyškolených postdoktorandov potom zamestnať, aby uplatnili svoje vedomosti a získané skúsenosti pri riešení projektov CHÚ SAV, v. v. i. V roku 2022 ústav zamestnal 5 mladých postdoktorandov (do jedného roka od ukončenia PhD štúdia) a v rámci novej schémy podpory prijímania mladých postdoktorandov v SAV získal jeden novoprijatý postdoktorand štipendium Štefana Schwarza (Dr. Blšáková) a ďalší štyria získali finančnú podporu z Kompenzačného fondu SAV od roku 2022. V 4. výzve programu Granty pre doktorandov SAV (DoktoGrant) boli úspešní 3 doktorandi a získali granty vo výške 2 000 € na podporu svojho vedeckého projektu. V snahe získať mladých adeptov vedy sa pracovníci ústavu aktívne zapájajú aj do pedagogickej činnosti na univerzitách (prednášky, cvičenia, vedenie diplomových prác, preddiplomová prax) a propagujú výsledky vedeckej činnosti (médiá, konferencie, semináre, letné školy, dni otvorených dverí, a pod.). Z prostriedkov ŠF EÚ (projekt "Kapacity") je ambíciou prijať niekoľko doktorandov nad limit stanovený pre ústav z centrálnych zdrojov a taktiež zamestnať úspešných a kvalitných postdoktorandov.

6. Spolupráca s univerzitami/vysokými školami a inými subjektmi v oblasti vedy a techniky, okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta biotechnológie a potravinárstva SPU
Oblasť spolupráce: Spoločné pracovisko metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu
Sídlo spoločného pracoviska (ak je vytvorené): Fakulta biotechnológie a potravinárstva SPU v Nitre
Začiatok spolupráce: 2009
Zhodnotenie: Dňa 2. septembra 2009 Chemický ústav SAV a Fakulta biotechnológie a potravinárstva SPU v Nitre podpísali dokument „Dohoda o vytvorení spoločného pracoviska metabolomiky rastlín, rastlinných surovín a potravín rastlinného pôvodu“. Cieľom spoločného pracoviska, ktoré je umiestnené v priestoroch CHÚ SAV v Bratislave a Katedry biochémie a biotechnológie FBP SPU v Nitre, je príprava a realizácia vedecko-výskumných projektov základného a aplikovaného výskumu v oblasti posudzovania kvality a bezpečnosti surovín a potravín na úrovni metabolizmu nutrične významných rastlín s využitím moderných analytických metód a unikátnej prístrojovej techniky a výchova odborných, vedeckých a pedagogických pracovníkov. V rokoch 2011 a 2013 pracovisko implementovalo projekty ŠF EÚ „Centrum excelentnosti pre bielo-zelenú biotechnológiu“ a "Dobudovanie technickej infraštruktúry pre výskum v oblasti nových biotechnológií“ (výzva OPVaV-2013/1.1/02-SORO, 2.88 mil. €), v rámci ktorých sa obstarala špičková prístrojová technika.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Dňa 11. mája 2007 bol podpísaný dokument „Zmluva a štatút o združení právnických osôb s názvom Národné centrum nukleárnej magnetickej rezonancie na Slovensku“ (NC NMR). Zmluvu podpísali: FCHPT, STU v Bratislave, FEI TU a UPJŠ v Košiciach, PriF UK, Chemický ústav SAV a Ústav merania SAV v Bratislave. NC NMR bolo vytvorené za účelom zabezpečovania potrieb NMR služieb v oblasti základného a aplikovaného výskumu, spolupráce s výrobnými organizáciami, zvyšovania vedomostného potenciálu v oblasti NMR. Sieť NC NMR tvoria Centrá NMR. Na CHÚ SAV je lokalizované Centrum pre štúdium dynamiky a interakcií biomolekúl, ktoré bolo v roku 2009 vybavené NMR prístrojmi Varian (600 MHz a 400 MHz). V roku 2015 bolo pracovisko vybavené (z prostriedkov projektu ŠF EÚ Dobudovanie infraštruktúry pre biomedicínsky výskum, ITMS 26230120008, ktorého nositeľom bol CHÚ SAV) špičkovými NMR prístrojmi Bruker: NMR Spectrometer Avance III HD 600MHz (2.344 mil. €) a Avance III HD 400MHz (1.021 mil. €).

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Združené laboratórium Fourier Transform Infrared (FTIR) Spectroscopy, založené v roku 1995, je spoločným pracoviskom Chemického ústavu SAV, Ústavu anorganickej chémie SAV, Fakulty chemickej a potravinárskej technológie STU a Prírodovedeckej fakulty UK v Bratislave. Vybavené je spektrometrom NICOLET 6700, zakúpeným v roku 2008 z prostriedkov projektu

MACHINA a slúži pre potreby výskumu, na pedagogické účely ako aj základné servisné merania. V r. 2010 bol spektrometer doplnený o ďalšie príslušenstvo. Neskôr bol doplnený (z prostriedkov projektu MACHINA) o detektor a rozdeľovač lúča pre ďalekú IČ oblasť. Z prostriedkov ŠF EÚ získalo pracovisko v r. 2012 disperzný DXR Raman mikroskop a v r. 2015 bolo pracovisko vybavené špičkovými prístrojmi: FTIR Mikroskop Nicolet iN10 a FTIR Spectrometer Nicolet iS50 doplnený o GC-IR modul a FTIR Raman (Thermo Fisher Scientific) z prostriedkov ŠF EÚ.

Názov univerzity/vysokej školy a fakulty: Fakulta elektrotechniky a informatiky TUKE
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Riešenie spoločných projektov VEGA a APVV - Katedra fyziológie rastlín
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2007
Zhodnotenie: Výsledkom spolupráce je účasť na nových výzvach v rámci APVV.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Spoločné pracovisko pre realizáciu výskumných a odborných aktivít v súvislosti so spoločným projektom VEGA
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV, v. v. i.
Začiatok spolupráce: 2022
Zhodnotenie: Spoločné pracovisko v rámci projektu VEGA "Integrácia nových miniaturizovaných analytických systémov do úpravy, analýzy a preparácie komplexných biologických, environmentálnych a farmaceutických vzoriek" a ďalších spoločných aktivít pri príprave a implementácii spoločných výskumných aj nevýskumných projektov, projektov vývoja nových produktov, služieb, materiálov a transferu poznatkov a technológií.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Viď informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UPJŠ
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

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

Názov organizácie: Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Oblasť spolupráce: Riešenie spoločných projektov VEGA a APVV - Katedra fyziológie rastlín
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2007
Zhodnotenie: Výsledkom spolupráce je účasť na nových výzvach v rámci APVV.

Názov organizácie: Chemický ústav SAV, v. v. i.
Oblasť spolupráce: Spoločné pracovisko pre realizáciu výskumných a odborných aktivít v súvislosti so spoločným projektom VEGA
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV, v. v. i.
Začiatok spolupráce: 2022
Zhodnotenie: Spoločné pracovisko v rámci projektu VEGA "Integrácia nových miniaturizovaných analytických systémov do úpravy, analýzy a preparácie komplexných biologických, environmentálnych a farmaceutických vzoriek" a ďalších spoločných aktivít pri príprave a implementácii spoločných výskumných aj nevýskumných projektov, projektov vývoja nových produktov, služieb, materiálov a transferu poznatkov a technológií.

Názov organizácie: Ústav anorganickej chémie SAV, v. v. i.
Oblasť spolupráce: Združené laboratórium Fourier Transform Infrared Spectroscopy
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 1995
Zhodnotenie: Viď informáciu uvedenú pre Spoločné pracovisko s FCHPT STU.

Názov organizácie: Ústav merania SAV, v. v. i.
Oblasť spolupráce: Národné centrum nukleárnej magnetickej rezonancie na Slovensku (NC NMR)
Sídlo spoločného pracoviska (ak je vytvorené): Chemický ústav SAV
Začiatok spolupráce: 2007
Zhodnotenie: Viď informácie uvedené pre spoluprácu s FCHPT STU v rámci Národného centra NMR.

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: Axxence s.r.o.
Oblasť spolupráce: Axxence Park-Hala 1: Aplikovaný výskum v oblasti priemyselnej biokatalýzy
Sídlo spoločného pracoviska (ak je vytvorené): Axxence s.r.o., Bratislava, Axxence Park - Hala 1
Začiatok spolupráce: 2013
Zhodnotenie: Dňa 4. marca 2013 Chemický ústav SAV a súkromná spoločnosť Axxence s.r.o. v Bratislave podpísali dokument „Zmluva o spoločnom pracovisku“ vyplývajúci z realizácie projektu Aplikovaný výskum v oblasti priemyselnej biokatalýzy. Cieľom spoločného pracoviska, ktoré sa nachádza v priestoroch „Axxence Park“ označených ako Hala 1, je poskytovanie komplexnej infraštruktúry pre efektívnejší aplikovaný výskum procesu izolácie prírodných aróm a ich finálnej purifikácie. Súčasťou spoločného pracoviska je zariadenie na vákuovú rektifikáciu poskytujúce vysokoúčinnú separáciu skúmaných látok. V minulosti sa riešili spoločné vedecké projekty.

Názov inštitúcie: Saneca Pharmaceuticals a.s., Hlohovec
Oblasť spolupráce: Saneca-Infraštruktúra-HL: Aplikovaný výskum v oblasti biomedicíny
Sídlo spoločného pracoviska (ak je vytvorené): Saneca Pharmaceuticals a.s., Hlohovec

Začiatok spolupráce: 2015
Zhodnotenie: Dňa 17. augusta 2015 Chemický ústav SAV a súkromná spoločnosť Saneca Pharmaceuticals a.s., Hlohovec podpísali dokument „Zmluva o spolupráci“ vyplývajúci z realizácie projektu ŠF EÚ "Technická infraštruktúra výskumného pracoviska" s cieľom vytvorenia a vybavenia pracoviska, ktoré bude napomáhať prenosu výsledkov základného výskumu do praxe a poskytovať primeranú infraštruktúru pre efektívnejší aplikovaný výskum v oblasti identifikácie a izolácie dôležitých prírodných látok, resp. ich prekurzorov. V rámci projektu OP ŠF Výskum a vývoj (mimobratislavský región) bolo pracovisko v r. 2015 vybavené modernou prístrojovou technikou v hodnote 9.86 mil. €. Túto v súčasnosti využívajú všetky subjekty Združenia právnických osôb Omics4Health (O4H), ktoré vzniklo v r. 2015 (CHÚ SAV, Ústav experimentálnej farmakológie a toxikológie SAV a súkromné spoločnosti Saneca Pharmaceuticals a.s., Biosynth, s.r.o. a SITNO PHARMA s.r.o.). Podaný bol spoločný projekt do výzvy OP ŠF (COVID-19).

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

Názov projektu: Posilnenie potenciálu proteínov z rias na farbenie a obohacovanie potravín pomocou vysokotlakovej technológie
Agentúra: ANSO
číslo projektu: ANSO-CR-PP-2021-01
Spolupracujúce inštitúcie: Faculty of Chemistry, Belgrade, Serbia; Shanghai Jiao Tong University, Shanghai, China; LLB, UMR12 CEA-CNRS, France; University of Donja Gorica, Donja Gorica, Montenegro; National Hellenic Research Foundation, Greece; Institute for Application of Nuclear
Koordinátor projektu: Dr Simeon Minić
Začiatok spolupráce: 2022
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Imobilizácia a koimobilizácia viabilných celobunkových biokatalyzátorov s enzýmovými kaskádami pre produkciu chemických špecialít, vývoj metód ich charakterizácie a bioreaktorové inžinierstvo
Agentúra: APVV
číslo projektu: APVV-20-0272
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie
Koordinátor projektu: Ing. Marek Bučko, PhD.
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov
Agentúra: APVV
číslo projektu: APVV-18-0188
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Vladimír Mastihuba, PhD.
Začiatok spolupráce: 2019
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácií nových

imobilizovaných biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít
Agentúra: VEGA
číslo projektu: 2/0130/20
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Marek Bučko, PhD.
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Viaclieková rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin
Agentúra: APVV
číslo projektu: APVV-19-0093
Spolupracujúce inštitúcie: Fakulta chemickej a potravinárskej technológie STU
Koordinátor projektu: Ing. Zdenka Sulová, DrSc.
Začiatok spolupráce: 2020
Koniec spolupráce: 2024
Zhodnotenie:

Názov projektu: Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok
Agentúra: APVV
číslo projektu: APVV-17-0239
Spolupracujúce inštitúcie: Farmaceutická fakulta UK; ICARST, n.o.
Koordinátor projektu: doc. Ing. Vladimír Frecer, DrSc.
Začiatok spolupráce: 2018
Koniec spolupráce: 2022
Zhodnotenie:

Názov projektu: Antivirálne liečivá proti COVID-19: Dizajn, syntéza a testovanie aktivity špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2
Agentúra: APVV
číslo projektu: APVV-21-0108
Spolupracujúce inštitúcie: Farmaceutická fakulta UK; Prírodovedecká fakulta UK; Fakulta prírodných vied UCM; Biomedicínske centrum SAV, v. v. i.
Koordinátor projektu: doc. Ing. Vladimír Frecer, DrSc.
Začiatok spolupráce: 2022
Koniec spolupráce: 2026
Zhodnotenie:

Názov projektu: Syntéza nanočastíc oxidov prechodných kovov, ich plazmové spracovanie a štúdium fotoelektrických a fotokatalytických vlastností
Agentúra: Mobility/SAV – AV ČR
číslo projektu: SAV – AV ČR-21-09
Spolupracujúce inštitúcie: Fyzikální ústav Akademie věd ČR
Koordinátor projektu: Ing. Júlia Mičová, PhD.
Začiatok spolupráce: 2021
Koniec spolupráce: 2022
Zhodnotenie:

Názov projektu: Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Agentúra: Výskumná agentúra
číslo projektu: 313011V578
Spolupracujúce inštitúcie: GENETON s.r.o.; Medirex Group Academy, n.o.; POWERTEC s. r. o.; Slovgen s.r.o.; Univerzitná nemocnica s poliklinikou Milosrdní bratia
Koordinátor projektu: Univerzita Komenského v Bratislave (RNDr. Tomáš Szemes, PhD.)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Nové lektíny pre analýzu glykánov s využitím v diagnostike, biomedicíne a biotechnológii
Agentúra: APVV
číslo projektu: SK-SRB-21-0046
Spolupracujúce inštitúcie: Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Serbia
Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.
Začiatok spolupráce: 2022
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky
Agentúra: APVV
číslo projektu: APVV DS-FR-19-0034
Spolupracujúce inštitúcie: Institute for Applied Nuclear Energy, University of Belgrade, Belgrade, Srbsko; Vienna Metabolomics Center, University of Vienna, Rakúsko
Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov
Agentúra: SAS-MOST-JRP Program
číslo projektu: SAS-MOST/JRP/2019/882/GM-INHIB
Spolupracujúce inštitúcie: Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
Koordinátor projektu: SAS, Academia Sinica (Ing. Maroš Bella, PhD., Prof. Doo Soo Chung)
Začiatok spolupráce: 2020
Koniec spolupráce: 2022
Zhodnotenie:

Názov projektu: Biočipové systémy na cielenú glykánovú analýzu biomarkerov pre biomedicínske a biotechnologické aplikácie
Agentúra: APVV
číslo projektu: APVV-20-0243
Spolupracujúce inštitúcie: Lekárska fakulta UK
Koordinátor projektu: Ing. Jaroslav Katrlík, PhD.
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa

Agentúra: Výskumná agentúra
číslo projektu: 313010W428
Spolupracujúce inštitúcie: Medirex Group Academy, n.o., Bratislava
Koordinátor projektu: Medirex Group Academy, n.o., (MUDr. Pavol Janega, PhD.)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby
Agentúra: Výskumná agentúra
číslo projektu: 313011V358
Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; MEDICAL VISION; PANARA, s.r.o.; DB Biotech, a.s.; Biomedical Engineering, s.r.o.; REGENMED, spol. s r. o.
Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu
Agentúra: Výskumná agentúra
číslo projektu: 313011W410
Spolupracujúce inštitúcie: NÚRCH Piešťany; Technická univerzita v Košiciach; REGENMED, spol. s r. o.
Koordinátor projektu: Národný ústav reumatických chorôb (MUDr. Stanislav Žiaran, PhD., MPH, FEBU)
Začiatok spolupráce: 2020
Koniec spolupráce: 2023
Zhodnotenie:

Názov projektu: Dizajn nových antituberkulóznych látok pomocou výpočtových metód a ich experimentálna evaluácia
Agentúra: APVV
číslo projektu: APVV-20-0230
Spolupracujúce inštitúcie: Prírodovedecká fakulta UK
Koordinátor projektu: Mgr. Stanislav Kozmon, PhD.
Začiatok spolupráce: 2021
Koniec spolupráce: 2025
Zhodnotenie:

Názov projektu: Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách
Agentúra: APVV
číslo projektu: APVV-17-0164
Spolupracujúce inštitúcie: Prirodovedecká fakulta UK
Koordinátor projektu: RNDr. Marek Vaculík, PhD.
Začiatok spolupráce: 2018
Koniec spolupráce: 2022
Zhodnotenie:

Názov projektu: Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: liečenie aj napriek trikom
Agentúra: APVV
číslo projektu: APVV-190376
Spolupracujúce inštitúcie: Virologický ústav SAV
Koordinátor projektu: Virologický ústav SAV (Mgr. Ivana Nemčovičová, PhD)
Začiatok spolupráce: 2020
Koniec spolupráce: 2024
Zhodnotenie:

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Názov inštitúcie: Aristotle University of Thessaloniki, Department of Food Science and Technology, Thessaloniki, Greece - neformálna spolupráca. Zameranie: Analýza polysacharidov z potravinárskych odpadov. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Názov inštitúcie: Botanický ústav Akademie věd ČR, Třeboň, Česko - neformálna spolupráca. Zameranie: Extracelulárne biopolyméry produkované mikroskopickými riasami, štruktúra a vlastnosti. Zhodnotenie: Výsledkom spolupráce je jedna spoločná karentovaná práca.

Názov inštitúcie: Faculdade de Ciencias e Tecnologia, Universidade Nova de Lisboa (FCT NOVA), Division of Chemistry, Lisboa, Portugal – neformálna spolupráca. Zameranie: syntéza biologicky účinných látok na báze sacharidov. Výsledkom je postdoktorálny pobyt jedného zamestnanca CHU SAV na FCT NOVA a krátky výskumný pobyt jedného doktoranda FCT NOVA na CHÚ SAV (1 mesiac).

Názov inštitúcie: Fakulta elektrotechnická ČVUT v Prahe- neformálna spolupráca. Zameranie: Charakterizácia a aplikácia nanočastíc na báze ZnO. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Názov inštitúcie: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. Zameranie: enzýmová modifikácia sacharidov.

Názov inštitúcie: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. Zameranie: hydrofóbne iónové párovanie. Zhodnotenie: Výsledkom spolupráce je vedenie 1 semestrálneho projektu.

Názov inštitúcie: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie a mikrobiológie - neformálna spolupráca. Zameranie: selektívna enzýmová protekcia a deprotekcia sacharidov. Zhodnotenie: Výsledkom spolupráce je vedenie 1 semestrálneho projektu.

Názov inštitúcie: Fakulta chemickej a potravinárskej technológie STU, Ústav biotechnológie - neformálna spolupráca. Zameranie: Štúdium enzýmových aktivít v procesoch polosuchých fermentácií. Zhodnotenie: Výsledkom spolupráce je 1 konzultovaná bakalárska práca.

Názov inštitúcie: Fakulta prírodných vied UCM, Katedra biotechnológií - neformálna spolupráca. Zameranie: a) Štúdium lektínových biočipov a biosenzorov;.b) Štúdium inhibítorov vírusových neuraminidáz. Zhodnotenie: Výsledkom spolupráce je 1 spoločná publikácia.

Názov inštitúcie: Fakulta Universidad Autónoma de Coahuila, School of Chemistry, Food Research Department – neformálna spolupráca. Zameranie: enzýmové glykozylácie tyrozolu a hydroxytyrozolu. Zhodnotenie: Výsledkom je pobyt jedného výskumného pracovníka z Univerzity Coahuila na CHU SAV (5 mesiacov) a jedna pripravovaná publikácia.

Názov inštitúcie: Fakultná nemocnica Trenčín, Onkologické oddelenie, Bratislava - neformálna spolupráca. Zameranie: Identifikácia onkologických ochorení. Zhodnotenie: Meranie vzoriek sér pacientov s onkologickým ochorením (rakovina hrubého čreva, prsníka a prostaty). Výsledkom spolupráce je príprava publikácie.

Názov inštitúcie: Farmaceutická fakulta UK - Katedra bunkovej a molekulárnej biológie liečiv - Neformálna spolupráca. Zameranie: Kultivácia a analýzy vybraných liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je vedenie 1 diplomovej práce.

Názov inštitúcie: Fyzikální ústav AV ČR, v. v. i. - neformálna spolupráca. Zameranie: Príprava, charakterizácia a využitie nanoštruktúr na báze ZnO. Zhodnotenie: Výsledkom spolupráce je pripravovaná spoločná publikácia.

Názov inštitúcie: II. onkologická klinika LF UK a NÓU. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: 1 spoločná publikácia.

Názov inštitúcie: Institute of Fermentation Technology and Microbiology, Lodz University of Technology, Poland. Neformálna spolupráca. Zameranie: Produkcia pulcherimínu kvasinkami skupiny Metschnikowia pulcherrima a jeho využitie.Zhodnotenie: Spolupráca pri experimentoch zameraných na: a) skríning kultúr skupiny M. pulcherrima s cieľom nájsť čo najlepších producentov pulcherimínu; b) využitie pulcherimínu ako antifungálneho agensu; c) využitie pulcherimínu ako ochrannej látky pri úschove kvasiniek v kvapalnom dusíku. Výsledkom spolupráce je 1 spoločná publikácia.

Názov inštitúcie: Institute of Physics, Polish Academy of Sciences, Al. Lotników 32/46, 02-668 Warsaw, Poland - neformálna spolupráca. Zameranie: Aplikácia teoretických metód na výpočet Ab initio potenciálnej energie so zahrnutím relativistických príspevkov. Zhodnotenie: Výsledkom spolupráce je publikácia.

Názov inštitúcie: Jesséniova lekárska fakulta, Ústav farmakológie, Martin - neformálna spolupráca. Zameranie: Štúdium farmakodynamických vlastností biopolymérov izolovaných z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je jedna spoločná karentovaná práca.

Názov inštitúcie: Klinika detskej psychiatrie, Národný ústav detských chorôb. Zameranie: Glykoprofilovanie vzoriek sér detských pacientov s neurovývojovými ochoreniami. Zhodnotenie: Príprava spoločnej publikácie.

Názov inštitúcie: Korea University of Science and Technology, Daejeon, Južná Kórea - neformálna spolupráca. Zameranie: Výskum štruktúry a biologických aktivít bakteriálnych biopolymérov. Zhodnotenie: Ukončenie experimentálnych prác a sumarizácia výsledkov.

Názov inštitúcie: Nemocnica Staré mesto - UNB, Gastroenterologická ambulancia. Zameranie: Diagnostika kolorektálneho karcinómu a odber vzoriek. Zhodnotenie: Príprava spoločnej publikácie.

Názov inštitúcie: Nemocnica Staré mesto - UNB, urologická ambulancia. Zameranie: Diagnostika testikulárneho karcinómu a odber vzoriek. Zhodnotenie: Príprava spoločnej publikácie.

Názov inštitúcie: Qatar University, Doha, Qatar - neformálna spolupráca. Zameranie: a) Štúdium glykánových a lektínových biosenzorov; b) štúdium polysacharidových kompozitných vrstiev. Zhodnotenie: Výsledkom spolupráce je 5 spoločných publikácií.

Názov inštitúcie: Research Center for Computational Design of Advanced Functional Materials (CD-FMat) National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba 305-8568, Ibaraki, Japan– Laboratory of Theoretical Medicinal Chemistry & Drug Design -neformálna spolupráca Zameranie: Vývoj teoretických metód na rýchly výpočet interakčných energií medzi arbitrárne definovanými segmentami so zahrnutím polarizácie a charge transfer efektu. Zhodnotenie: Výsledkom spolupráce je publikácia.

Názov inštitúcie: The Catholic University of Korea, Department of Biotechnology, Bucheon, Republic of Korea - neformálna spolupráca. Zameranie: Výskum štruktúry a biologických aktivít biopolymérov z rias. Zhodnotenie: Výsledkom spolupráce je jedna spoločná karentovaná práca.

Názov inštitúcie: Trnavská univerzita, Pedagogická fakulta – neformálna spolupráca. Príprava učebných pomôcok pre žiakov ZŠ, predmet chémia.

Názov inštitúcie: Ústav přístrojové techniky AV ČR, Oddělení elektronové mikroskopie, Brno, ČR - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná publikácia.

Názov inštitúcie: Vienna University of Technology, Institute of Applied Synthetic Chemistry, Vienna, Austria - neformálna spolupráca. Zameranie: Výskum imobilizovaných celobunkových biokatalyzátorov. Zhodnotenie: Výsledkom spolupráce je 1 pripravovaná spoločná publikácia.

Názov inštitúcie: Vysoká škola chemicko-technologická v Praze, Fakulta potravinářské a biochemické technologie, Ústav sacharidů a cereálií, Praha, Česko - neformálna spolupráca. Zameranie: Výskum štruktúry a biologických aktivít rastlinných biopolymérov. Zhodnotenie: Výsledkom spolupráce je jedna spoločná práca.

Názov inštitúcie: Wroclaw University of Science and Technology, Faculty of Chemistry, Department of Organic and Pharmaceutical Technology, Wroclaw, Poland - neformálna spolupráca. Zameranie: Vlastnosti a biologická aktivita polyfenolických glykokonjugátov z liečivých rastlín. Zhodnotenie: Výsledkom spolupráce je jedna spoločná karentovaná práca.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Izolácia neprístupných štruktúr acetylxylánu a enzýmy ich hydrolýzy (Isolation of recalcitrant acetylxylan structures and enzymes of their hydrolysis)
(Zodpovedný riešiteľ: RNDr. Peter Biely, DrSc.)
Zadávateľ výskumného kontraktu: Novozymes A/S, Bagsvaerd, Denmark
Začiatok spolupráce: 2021
Ukončenie spolupráce: 2023
Finančný prínos pre organizáciu (€): 10000

7.3. Iné formy aplikácie výsledkov výskumu v spoločenskej a hospodárskej praxi

Názov/účel výskumu: Monitorovanie účinnosti enzymatickej substitučnej liečby u pacientov s dedičným metabolickým ochorením Pompe.
Konkrétny výsledok výskumu: Vypracovanie metodiky na monitorovanie účinnosti enzymatickej substitučnej liečby u pacientov s dedičným metabolickým ochorením Pompe na stanovenie koncentrácie špecifického biomarkera v moči pomocou NMR spektroskopie.
Kto a odkedy ho využíva: Centrum dedičných metabolických chorôb, Odd. laboratórnej medicíny, Národný ústav detských chorôb (NÚDCh), Limbová 1, 833 40 Bratislava. Vzorky prichádzajú priebežne počas celého roka podľa potrieb lekárov.
Projekt a rok, v ktorom bol výsledok vytvorený: Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení. Operačný program pre výskum a inovácie (RIS3 BSK) ITMS: 313021Y920, 2020-2023.
Autori výsledku: RNDr. Mária Matulová, DrSc. a RNDr. Iveta Uhliariková, PhD.

Názov/účel výskumu: MS analýza vzoriek.
Odberateľ: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie, Bratislava
Finančný prínos: 5 200 €

Názov/účel výskumu: MS analýza vzoriek.
Odberateľ: MIKROCHEM, s.r.o, Pezinok
Finančný prínos: 100 €

Názov/účel výskumu: LC-MS a NMR analýza vzoriek.
Odberateľ: Prírodovedecká fakulta UK, Bratislava
Finančný prínos: 3 400 €

Názov/účel výskumu: MS analýza vzoriek.
Odberateľ: Auchem, s.r.o., Čadca
Finančný prínos: 200 €

Názov/účel výskumu: LC analýza vzoriek.
Odberateľ: Slovak MAK, s.r.o., Leopoldov
Finančný prínos: 210 €

Názov/účel výskumu: Stanovenie elementárneho zloženia (CHNS) vzoriek.

Odberateľ: Výskumný ústav papiera a celulózy a.s., Bratislava
Finančný prínos: 345 €

Názov/účel výskumu: Stanovenie elementárneho zloženia (CHNS), NMR, MS analýza vzoriek.
Odberateľ: Ústav polymérov SAV, Bratislava
Finančný prínos: 5 995 €

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

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
Ing. Slavomír Bystrický, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Peter Gemeiner, DrSc.	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
Ing. Miloš Hricovíni, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen
	Komisia pre rozhodovanie v konaní o námietkach pri Úrade pre verejné obstarávanie SR	externý člen
RNDr. Jaroslav Klaudiny, PhD.	Komisia pre biologickú bezpečnosť a jej zbor expertov pri Ministerstve životného prostredia SR	člen zboru expertov
Ing. Vladimír Mastihuba, PhD.	Sektorová rada pre potravinárstvo v programe MŠVVaŠ SR a MPSVR SR "Národná sústava povolaní"	člen
	Atestačná komisia Slovenskej technickej univerzity v Bratislave	člen
RNDr. Mária Matulová, DrSc.	Sektorová rada pre chémiu a farmáciu v Národnom projekte "Sektorovo riadenými inováciami (SRI) k efektívnemu trhu práce v Slovenskej republike" pre MPSVR SR	člen
Ing. Ema Paulovičová, CSc.	Pracovná skupina expertov pre alternatívne metódy (hodnotenie toxicity, účinkov a bezpečnosti látok vo vede, výskume, priemysle a edukácii) pri Ministerstve pôdohospodárstva a rozvoja vidieka SR	člen
doc. Ing. Ladislav Petruš, DrSc.	Porota pre udeľovanie Cien Literárneho fondu za vedeckú a odbornú literatúru v kategórii prírodné a technické vedy	člen
Ing. Renáta Vadkertiová, PhD.	Komisia pre koordináciu aktivít SR vo výskumných infraštruktúrach ESFRI v oblasti zdravia, potravín a životného prostredia pri Ministerstve školstva, vedy, výskumu a športu SR	člen

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
Ing. Miloš Hricovíni, PhD.	Rada Národného centra NMR	člen
Ing. Igor Tvaroška, DrSc.	Rada Národného centra NMR	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. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	6	tlač	4	TV	1
rozhlas	0	internet	9	exkurzie	3
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	5				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
3. konferencia Centra excelentnosti. Aplikácia OMICS nástrojov v štúdiu vzniku chorôb a ich prevencie.	domáca	Chemický ústav SAV, v.v.i. Bratislava	30.11.-30.11.2022	45
8. Medzinárodné sympózium o štruktúre a funkcii koreňov	medzinárodná	Grand Hotel Bellevue, Horný Smokovec, Slovensko	12.06.-16.06.2022	90
15. Bratislavské sympózium o sacharidoch	medzinárodná	Kongresové centrum SAV, Smolenice, Slovensko	20.06.-24.06.2022	120
Chémia smerom k biológii 10 a INSTRUCT-ULTRA míting o štruktúre biomolekúl	medzinárodná	Bratislava, Slovensko	11.09.-14.09.2022	93

9.3. Účasť na výstavách

Názov výstavy: Veľtrh vedy v Prahe 2022-– najväčšia vedecká udalosť v Česku
Miesto konania: PVA EXPO Letňany- Praha
Dátum: 2.6.2022
Zhodnotenie účasti: Prezentovanie Chemického ústavu a Slovenskej akadémie vied - Alena Holazová, Lenka Lorencová, Filip Květoň. Návštevníci sa mohli dozvedieť o významných funkciách sacharidov v našom živote a rôznych multifunkčných (nano)materiáloch využitých pri príprave biosenzorov na diagnostiku ochorení. Účastníci mohli ďalej vidieť ukážky rýchlej diagnostiky v klinickej praxi, viaceré druhy kvasiniek zo Zbierky kvasiniek sídliacej na CHÚ SAV a rovnako i ukážky rastlín z nášho ústavu. Pre detských návštevníkov boli pripravené popularizačné pokusy z "Chemickej kuchyne". Okrem nových poznatkov a skúseností si návštevníci z nášho stánku odnášali i malé pozornosti – rôzne propagačné materiály a darčeky.

Názov výstavy: 15. ročník Európskej noci výskumníkov na Slovensku

Miesto konania: Stará tržnica, Bratislava
Dátum: 30.9.2022
Zhodnotenie účasti: Prezentujúci: Anna Blšáková, Natália Košútová, Veronika Vráblová, Štefánia Hrončeková, Alena Holazová, Maroš Krchňák, Rebeka Kodríková, Lucia Pažitná, Filip Pančík, Filip Květoň, Lenka Lorencová, dva stánky nazvané: Sladká diagnostika a Sladkosť života.Sladká diagnostika:1. Ukážka rôznych druhov sacharidov 2. Vzorky rôznych (nano)materiálov používaných na úpravu povrchov, ktoré následne slúžia na tvorbu biosenzorov na diagnostiku ochorení.3. Ukážka rýchlej diagnostiky v klinickej praxi - "ELISA - Enzyme-Linked ImmunoSorbent Assay" platničky a jednorazové "LFA – Lateral Flow Assay" testy.4. Prístroj na enkapsuláciu.Sladkosť života:1. "Kvasinky sú všade okolo nás" – ukážky zo Zbierky kvasiniek sídliacej na Chemickom ústave, v. v. i. SAV.2. Ukážky rastlín z Chemického ústavu, v. v. i. SAV – "ochranný účinok cukrov pri raste rastlín v kontaminovanom prostredí".3. Popularizačné pokusy pre detských návštevníkov – "Chemická kuchyňa"

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Bellová Jana	0	1	0
Farkaš Pavol	0	1	0
Kopáčová Mária	0	1	0
Šedivá Mária	0	1	0
Spolu	0	4	0

9.5. Členstvo v redakčných radách časopisov

Mgr. Peter Baráth, PhD.

Newslab (funkcia: člen)

Mgr. Peter Capek, PhD.

Trends in Carbohydrate Research (funkcia: člen Advisory Board)

doc. Mgr. Maksym Fizer, PhD.

SCIENTIAE RADICES (funkcia: Editorial Board Member)

Ing. Peter Gemeiner, DrSc.

Artificial Cells, Blood Substitutes, and Biotechnology (funkcia: člen Editorial Board)
Biotechnology and Applied Biochemistry (funkcia: člen Editorial Board)
Biotechnology Letters (funkcia: člen Editorial Board)
Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Ján Hirsch, DrSc.

Chemical Papers (funkcia: Editorial Manager)

Mgr. Maroš Laho, PhD.

včelársky časopis Dymák (funkcia: člen redakčnej rady)

Ing. Júlia Mičová, PhD.

Applied Functional Materials (funkcia: Editorial Advisory Board)

Ing. Jozef Nahálka, PhD.

Journal of Glycomics & Lipidomics (funkcia: člen Editorial Board)

doc. Ing. Ladislav Petruš, DrSc.

ARKIVOC (funkcia: člen Editorial Board of Referees)
Chemical Papers (funkcia: člen Editorial Advisory Board)

MSC. Santosh Ram Jadhav, PhD.

Frontiers in Aging Neuroscience (funkcia: Editorial Board)
Journal Life (funkcia: Reviewer editor)
Journal Life (funkcia: Topic editor: Roles of Tau Protein in Health and Disease)
Journal of Integrative Neuroscience (funkcia: Guest editor a committee for)

Ing. Ján Tkáč, DrSc.

Acta Chimica Slovaca (funkcia: člen Editorial Advisory Board)
Chemical Papers (funkcia: člen Editorial Advisory Board)

Ing. Igor Tvaroška, DrSc.

Frontiers in Plant Science: Plant Biophysics and Modeling (funkcia: Review Editor)

9.6. Činnosť v domácich vedeckých spoločnostiach

MSc. Marko Bajus

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Maroš Bella, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Jana Blahutová, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Pavol Farkaš, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Gemeiner, DrSc.

Slovenská biotechnologická spoločnosť (funkcia: podpredseda)

Mgr. Diana Hačkuličová

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Michal Híreš, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Ján Hirsch, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: predseda odbornej skupiny)

Ing. Michal Hricovíni, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Miloš Hricovíni, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Zuzana Hricovíniová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Andrej Chyba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Elena Karnišová Potocká, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Jaroslav Katrlík, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Peter Kis, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Karin Kollárová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: podpredseda a tajomník Fyziologickej sekcie)

Mgr. Juraj Kóňa, PhD.

Medical Vision (funkcia: člen)

Ing. Natália Košútová

Slovenská chemická spoločnosť (funkcia: Člen)

RNDr. Ján Kozák, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Stanislav Kozmon, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Danica Kučerová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Mgr. Eva Labancová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

RNDr. Lenka Lorencová, PhD.

Slovenská elektrochemická spoločnosť (funkcia: člen)
Slovenská chemická spoločnosť (funkcia: člen revíznej komisie)

prof. RNDr. Alexander Lux, CSc.

Slovenská botanická spoločnosť pri SAV (funkcia: čestný člen)

Ing. Vladimír Mastihuba, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Mária Mastihubová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: podpredseda Odbornej skupiny Organická chémia)

RNDr. Mária Matulová, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Ema Paulovičová, CSc.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)
Slovenská spoločnosť alergológie a klinickej imunológie pri SLS (funkcia: člen)

Ing. Lucia Paulovičová, PhD.

Slovenská imunologická spoločnosť pri SAV (funkcia: člen)

Ing. Lucia Pažitná, PhD.

Slovenská chemická spoločnosť (funkcia: člen)

Ing. Vladimír Pätoprstý, PhD.

Slovenská spoločnosť hmotnostnej spektrometrie (funkcia: predseda)

doc. Ing. Ladislav Petruš, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: čestný člen)
Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Veronika Pinková Gajdošová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

MSC. Santosh Ram Jadhav, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Kristína Šípošová, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: člen)

Ing. Ján Tkáč, DrSc.

Slovenská elektrochemická spoločnosť (funkcia: člen)

Ing. Jozef Turjan

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Ing. Igor Tvaroška, DrSc.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

RNDr. Iveta Uhliariková, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

Mgr. Zuzana Vivodová, PhD.

Slovenská chemická spoločnosť pri SAV (funkcia: člen)

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

SAV s podporou Ministerstva školstva, vedy, výskumu a športu Slovenskej republiky naštartoval v roku 2021 a pokračoval aj v roku 2022 "Systémový program pre komplexné poznanie a kritické myslenie formou zážitkového vzdelávania". Cieľom programu je v priamej spolupráci s učiteľmi základných škôl zatraktívniť obsah vyučovania prírodovedných predmetov pomocou zážitkového vyučovania a zároveň tým rozvinúť kritické myslenie a tvorivosť žiakov. Program vychádza z myšlienky, že práve prostredníctvom zamerania na vedecké myslenie, praktické

experimentovanie a porozumenie toho, ako poznanie vzniká, budú žiaci vedieť lepšie aplikovať vedecké postupy na riešenie každodenných problémov.

Systémový program chce vychádzať v ústrety nielen žiakom, ale aj učiteľom. Vďaka programu budú základné školy vybavené pomôckami na pokusy doplnené o metodickú príručku, učiteľom bude navyše k dispozícii webová platforma ako zdroj vzdelávacích materiálov a interaktívna aplikácia použiteľná v triede i doma pre učiteľov aj žiakov.

Systémový program pre komplexné poznanie a kritické myslenie formou zážitkového vzdelávania napĺňa konkrétne požiadavky zvyšovania záujmu a povedomia mladých ľudí o vede v súlade s intervenčnou logikou Národného programu rozvoja výchovy a vzdelávania 2018 – 2027, ktorý vydalo MŠVVaŠ a v ktorom definuje strategické ciele a prierezové témy v oblasti výchovy a vzdelávania. Do realizácie programu sa zapojilo päť ústavov SAV, Ústav materiálov a mechaniky strojov SAV, Ústav polymérov SAV, Chemický Ústav SAV, Ústav pre výskum srdca CEM SAV, Ústav experimentálnej psychológie CSPV SAV.

Chemický ústav privítal študentov 2. a 3. ročníka bakalárskeho stupňa štúdia Prírodovedeckej fakulty UK, zameranie chémia (28 študentov + 2 sprevádzajúce osoby). V rámci exkurzie im boli sprístupnené laboratóriá na Chemickom ústave SAV.

Chemický ústav pravidelne zabezpečuje vedecký stánok na Festivale vedy - Európskej noci výskumníkov na Slovensku. Pracovníci Chemického ústavu sa zúčastnili Veľtrhu vedy v Prahe 2022 – najväčšej vedeckej udalosti v Česku, kde sa návštevníci mohli dozvedieť o významných funkciách sacharidov v našom živote, rôznych multifunkčných (nano)materiálov využitých pri príprave biosenzorov na diagnostiku ochorení.

V roku 2022 sa konal on-line TOD organizovaný Úradom SAV zameraný hlavne na budúcich záujemcov o doktorandské štúdium, kde boli prezentované vypísané témy doktorandského štúdia na CHÚ. Rovnako tento rok Chemický ústav SAV usporiadal aj Deň otvorených dverí CHÚ SAV v rámci Týždňa vedy a techniky na Slovensku 2022, ktorého sa zúčastnilo približne 80 účastníkov z troch stredných škôl.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		25 424
z toho	knihy a zviazané periodiká	25 424
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		4
z toho zahraničné periodiká		3
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“.*

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		18
v tom z r. 1	prezenčné výpožičky	12
	absenčné výpožičky	7
v tom z r. 1	odborná literatúra pre dospelých	10
	výpožičky periodík	16
MVS iným knižniciam		5
MVS z iných knižníc		1
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		0

Počet vypracovaných rešerší	0

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	0
Návštevníci knižnice spolu (bez návštevníkov podujatí)	neeviduje sa

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

Pracovníčka knižnice (v súčasnosti len 1) zabezpečovala okrem iného rozmnožovacie práce na kopírovacom prístroji, zväzovanie dokumentov krúžkovou väzbou, laminovanie dokumentov, rešerše z literatúry, objednávky kníh a vkladala všetky publikačné výstupy a citačné ohlasy pracoviska do systému ARL.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

Ing. Ján Hirsch, DrSc.

- Edičná rada SAV (člen)

Ing. Ján Tkáč, DrSc.

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

11.4. Členstvo v orgánoch VEGA

Ing. Marek Bučko, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Mgr. Stanislav Kozmon, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

Ing. Mária Mastihubová, PhD.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 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	4 946 931	3 246 429	1 197 562	502 940	
z toho: mzdy (610)	2 387 442	1 868 848	357 643	160 951	
vedecká výchova štipendiá (640)	207 817	207 817			
poistné a príspevok do poisťovní (620)	852 916	645 226	130 164	77 526	
tovary a služby (630)	1 388 038	524 538	599 037	264 463	
transfery partnerom projektov (640)	110 718		110 718		
2. Kapitálové výdavky	71 054	9 000		62 054	
z toho: obstarávanie kapitálových aktív	71 054	9 000		62 054	
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 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)	3 255 429	9 000	1 868 848	645 226	
z toho: VEGA	188 873				
MVTS výskumné projekty	25 000				
MVTS podpora	39 166				
SASPRO/MOREPRO					
Vydávanie časopisov	27 619				
Vedecká výchova (štipendiá)	207 817				
OTAS (630)	243 888				

2. ŠF EÚ vr. fin. zo ŠR	695 424		245 057	96 004	20 726
3. medzinárodné grantové projekty	132 463	2 208	49 212	25 740	
z toho: H2020	76 344		38 502	13 552	
4. iné štátne a verejné zdroje (spolu)	566 281		147 371	55 064	
z toho: APVV	471 769		117 994	42 347	89 992
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje					
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	368 417	59 846	76 953	30 340	

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

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

Na Chemickom ústave SAV uplatňujeme princípy rodovej rovnosti v plnej miere. Obsadzovanie pracovných a aj vedúcich pozícii je uskutočňované čisto na základe pracovných a odborných skúseností vhodných pre danú pozíciu.

Ústav taktiež prijal Plán rodovej rovnosti SAV pre obdobie 2021 - 2024, pričom sa riadi jeho odporúčaniami a snaží sa ich v čo najväčšej miere implementovať.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a 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	16	11	5	2	2	0
2. Projekty APVV	7	7	0	14	12	2
3. Projekty EŠIF/OP ŠF	1	1	0	6	6	0
4. Projekty SASPRO, MoRePro, IMPULZ	0	0	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	4	3	1	0	0	0

Tabuľka 14b 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	1	1	0
2. Projekty ERA.NET, ESA, JRP	1	1	0	0	0	0
3. Projekty COST	0	0	0	12	7	5
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	1	1	0
5. Projekty v rámci medzivládnych dohôd	3	3	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	1	0	1	0	0	0
7. Bilaterálne projekty ostatné	1	1	0	0	0	0
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	2	2	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

14.3. Výskum zameraný 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 C.

Na Chemickom ústave SAV aktuálne neprebieha žiadny výskum zameraný na rodovú problematiku.

15. Iné významné činnosti organizácie SAV

Organickou súčasťou ústavu je Zbierka kultúr kvasiniek (Culture Collection of Yeasts), ktorá je členom Organizácie európskych zbierok (ECCO), Svetovej federácie zbierok mikroorganizmov (WFCC), je registrovaná vo Svetovom katalógu kultúr (CCY 333) a má štatút medzinárodného ukladacieho centra patentovo chránených kmeňov (je v nej uložených približne 4000 kmeňov kvasiniek a kvasinkovitých mikroorganizmov, z toho 360 typových kultúr a kmeňov chránených patentami). Počet vydaných kultúr v roku 2021: 56 (4 pre CHÚ, 18 pre organizácie v SR, 34 pre zahraničie). Získané kultúry v roku 2022: 14 (14 izolovaných zbierkou). Príjem za honorované služby (predané kultúry) predstavoval 747 € a úspora predstavovala 540 € (120 € za kmene pre CHÚ, 420 € za kmene izolované zbierkou).

Chemický ústav SAV je vydavateľom časopisu Chemical Papers - jediného odborného periodika vydávaného na Slovensku, ktoré publikuje pôvodné vedecké práce z oblasti chémie v anglickom jazyku. Časopis je abstrahovaný/indexovaný v Analytical Abstracts, Biological Abstracts, Chemical Abstracts Service, Chemistry Citation Index, Current Contents/Physical, Chemical and Earth Sciences, Index to Scientific Reviews, Mass Spectrometry Bulletin, Mathematical Science Citation Index, Reaction Citation Index, Referativnyi Zhurnal a v databázach Thompson Reuters (Science Citation Index Expanded, WOS). Impakt faktor časopisu sa od roku 2013 pohyboval nad hodnotou 1 (IF2013 = 1.193; IF2014 = 1.468; IF2015 = 1.326; IF2016 = 1.258). V roku 2017 mierne poklesol (IF2017 = 0.973) v dôsledku predchádzajúcej zmeny vydavateľa. V roku 2018 však opätovne vzrástol (IF2018 = 1.246). Rastúci trend pokračoval aj v rokoch 2019 a 2020 (IF2019 = 1.680; IF2020 = 2.097; IF2021 = 2.146) a je predpoklad, že hodnota IF bude rásť. Činnosť redakcie časopisu zabezpečuje personálne aj materiálne Chemický ústav SAV. V období 2007-2014 bolo publikovanie tlačenej aj elektronickej verzie časopisu v kompetencii vydavateľstva Springer-Verlag GmbH (Publisher: Versita, co-published with Springer-Verlag GmbH). V období rokov 2015-2016 bol vydavateľom a distribútorom De Gruyter Open Ltd. Od roku 2017 je vydavateľom a distribútorom Springer-Verlag GmbH, pričom Copyright a Ownership patrí Chemickému ústavu SAV. Od roku 2012 vychádza 12 čísiel ročne (predtým 6 čísiel) publikuje sa v ňom cca 750 vedeckých recenzovaných publikácii ročne.

V Realizačnom oddelení ústavu sa na základe priebežne dosahovaných výsledkov základného výskumu vyrába široký sortiment vzácnych sacharidov. Tieto dodáva na zahraničný trh, niektoré ako jediný producent na svete. Ústav je v priamom styku s viacerými poprednými svetovými firmami a prostredníctvom obchodných partnerov má kontakty s najvýznamnejšími dodávateľmi čistých chemikálií. Tržby z komerčnej činnosti Realizačného oddelenia dosiahli v roku 2022 sumu približne 130 000 €.

Analytické oddelenie poskytuje analytické, chromatografické, elektroforetické a spektroskopické stanovenia a merania ako aj kompletné analytické a štruktúrne charakterizácie produktov a študovaných látok iným pracoviskám. Príjmy zo služieb ústavom SAV, katedrám a ústavom vysokých škôl, rezortným a súkromným výskumným a výrobným organizáciám predstavovali približne 15 500 €.

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Hačkuličová Diana
Certifikát pri príležitosti podávania prihlášok grantov pre doktorandov SAV v.r. 2021
Oceňovateľ: Hodnotiaca komisia Programu grantov pre doktorandov SAV
Opis: Podaný projekt s názvom "Potenciál oligosacharidov pri stimulácii tvorby bunkovej steny a pri zvyšovaní viability protoplastov kultivovaných v prítomnosti kadmia" bol ocenený známkou vysokej kvality.

Tkáč Ján
Čestná plaketu SAV Dionýza Štúra za zásluhy v prírodných vedách
Oceňovateľ: Predsedníctvo SAV

16.1.2. Iné domáce ocenenia

Blšáková Anna
Cena rektora STU
Oceňovateľ: Rektor Slovenskej technickej univerzity v Bratislave
Opis: Cena rektora STU za vynikajúce plnenie študijných povinností počas celého štúdia doktorandského študijného programu biochémia.

Hrončeková Štefánia
Cena rektora STU
Oceňovateľ: Rektor Slovenskej technickej univerzity v Bratislave
Opis: Ocenenie sa udeľuje za vynikajúce plnenie študijných povinností počas celého štúdia doktorandského študijného programu biotechnológia.

Pakanová Zuzana
Osobnosť vedy a techniky
Oceňovateľ: Ministerstvo školstva, vedy, výskumu a športu
Opis: Kategória do 35 rokov: cena za vedecko-výskumnú činnosť v oblasti štruktúrnej analýzy glykobiomarkerov s priamou aplikáciou do medicínskej a diagnostickej praxe.

Tkáč Ján
Cena za vedu a techniku
Oceňovateľ: Ministerstvo školstva, vedy, výskumu a športu SR
Opis: Cena za vedu a techniku za rok 2022 v kategórii "Osobnosť vedy a techniky" za využitie nanotechnológií vo viacerých aplikáciách vrátane biomedicíny.

16.2. Medzinárodné ocenenia

17. Poskytovanie informácií v súlade so zákonom č. 211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií)

Informácie o pracovisku sú voľne dostupné na internete (www.chem.sk) ako aj z knižných brožúr vydaných za roky 1953-1993, 1993-1997 a 1998-2002. Začiatkom roka 2015 bola vydaná brožúra k 60. výročiu založenia ústavu, ktorá obsahuje niektoré údaje o pracovisku až do roku 2013. Pri príležitosti 70-teho výročia ústavu sa pripravuje aktualizovaná brožúra, ktorá bude obsahovať údaje za ďalšie 10-ročné obdobie.

18. Problémy a podnety pre činnosť SAV

a) Zabezpečovanie a prideľovanie finančných prostriedkov zo ŠR

Podľa dostupných informácií sa na ďalšom financovaní prístupu do vedeckých databáz majú okrem CVTI SR podieľať aj univerzity, vysoké školy a SAV. Apelujeme na Predsedníctvo SAV, aby situáciu ohľadne zabezpečenia financovania prístupu do databáz považovalo za jednu z priorít a nedopustilo, aby v budúcnosti došlo k prerušeniu prístupu do nich. Nedávne zrušenie prístupu do databáz SciFinder a Reaxys výrazne obmedzuje včasné získavanie relevantných informácií najmä početnej skupine organických chemikov, ale aj biochemikov a biotechnológov.

Apelujeme na Predsedníctvo SAV a kompetentné orgány, aby neznižovali príspevok na vydávanie kvalitných vedeckých časopisov (periodík).

Apelujeme na Predsedníctvo SAV, aby v súčinnosti s univerzitami a výskumnými inštitúciami požadovali od Výskumnej agentúry a relevantných ministerstiev plnenie prísľubov na radikálne zlepšenie situácie vo vypisovaní výziev a následnom spravovaní agendy týkajúcej sa ŠF EÚ (najmä urýchlenie celého procesu od vypísania výzvy, cez hodnotenie, podpísanie zmluvy až po realizáciu ŽOP-iek, odbyrokratizovanie, ...).

b) Iné problémy pracoviska

Ústav dlhodobo zabezpečuje fungovanie Zbierky kultúr kvasiniek (CCY), ktorá má štatút medzinárodného ukladacieho miesta podľa Budapeštianskej zmluvy o medzinárodnom uznávaní uloženia mikroorganizmov na účely patentového konania od roku 1992 (www.wipo.int). Na základe tejto zmluvy Slovenská republika prevzala záruky za trvalú existenciu Zbierky kultúr kvasiniek a aktivity, ktoré vyplývajú z tohoto záväzku (Vyhláška ministra zahraničných vecí č. 212/1989 Zb. a zmena Vykonávacieho predpisu k Budapeštianskej zmluve uverejnená pod č. 85/2003 Z.z). Avšak ústav nedostáva žiadne finančné príspevky na chod zbierky a už minimálne 20 rokov ju financuje z vlastných zdrojov. Ku základným vybaveniam zbierok mikroorganizmov patria zariadenia, ktoré slúžia na dlhodobú úschovu mikroorganizmov. Dlhodobá úschova mikroorganizmov je jednou z hlavných povinností zbierok mikroorganizmov a vyplýva z Dohody o biologickej diverzite (The Convention on Biological Diversity, CBD, Rio de Janeiro, 2012), ktorej podpisom sa členské štáty zaviazali k ochrane biologickej diverzity, a z príručky OECD (Best Practice Guidelines for Biological Resource Centres, 2007), ktorá určuje, že zbierky mikroorganizmov musia zabezpečiť prístup k biologickému materiálu s najvyššou kvalitou, ktorý je autentický, správne identifikovaný a charakterizovaný a vhodne a dlhodobo uchovávaný. Úschova v kvapalnom dusíku je najspoľahlivejšou metódou pre dlhodobú úschovu mikroorganizmov a preto je priorizovaná Svetovou federáciou zbierok mikroorganizmov (WFCC), Európskou organizáciou zbierok mikroorganizmov (ECCO) a organizáciou OECD. Zbierka kultúr kvasiniek má dlhodobé skúsenosti s úschovou kvasinkových kultúr v kvapalnom dusíku. Na úschovu však používa kryonádoby zastaraného typu, ktoré majú malú kapacitu na ukladanie kryoskúmaviek, kvasinkové kultúry sú zle prístupné a hrozí ich uvoľnenie z kanistrov do priestoru kryonádob a ich nenávratná strata. Ani dokupovanie ďalších kryonádob tohto typu nezabezpečí úschovu všetkých kvasinkových kultúr uložených v zbierke (približne 4000 kvasinkových kultúr) a neodstráni riziko uvoľnenia kvasinkových kultúr do kryonádob a straty kultúr. Tento problém je možné vyriešiť len zakúpením veľkokapacitnej kryonádoby s vhodným ukladacím systémom na kryoskúmavky s kvasinkovými kultúrami. Vysokú prioritu má aj zakúpenie hlbokomraziaceho boxu (–150 °C), ktorý by sa využíval, ako ďalšia spoľahlivá a odporúčaná alternatíva, na dlhodobú úschovu kvasiniek.

Zbierka kultúr kvasiniek však nevyhnutne potrebuje obnoviť a dokúpiť aj ďalšie prístrojové vybavenie, zrekonštruovať a zmodernizovať priestory a nábytkové vybavenie (väčšina pochádza z roku 1963) a uzatvoriť priestory, v ktorých sa nachádza, aby mohla splniť štandardy, ktoré od zbierok mikroorganizmov vyžadujú OECD, Svetová federácia zbierok mikroorganizmov (WFCC) a Európska organizácia zbierok mikroorganizmov (ECCO).

Hoci Zbierka kultúr kvasiniek patrí ku najväčším európskym zbierkam z hľadiska množstva uchovávaných mikrobiálnych kultúr, je podľa dostupných informácií jednou z najhoršie vybavených zbierok mikroorganizmov v Európe.

Správu o činnosti organizácie SAV spracoval(i):

Mgr. Jana Blahutová, PhD., 02/ 59410298, 02/ 59410661
Ing. Zuzana Košťálová, PhD., 02/ 59410284
Mgr. Stanislav Kozmon, PhD., 02/ 59410322
Oľga Švančarová, 02/ 59410202
Erika Voleková, 02/ 59410201

Schválila vedecká rada organizácie SAV dňa 31.1.2023

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
Mgr. Stanislav Kozmon, PhD.	RNDr. Karin Kollárová, PhD.

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2022

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Peter Biely, DrSc.	5	0.05
2.	Ing. Slavomír Bystrický, DrSc.	5	0.05
3.	Ing. Peter Gemeiner, DrSc.	5	0.05
4.	Ing. Ján Hirsch, DrSc.	5	0.05
5.	RNDr. Mária Matulová, DrSc.	100	1.00
6.	doc. Ing. Ladislav Petruš, DrSc.	5	0.05
7.	Ing. Ivan Šimkovic, DrSc.	5	0.05
8.	Ing. Ján Tkáč, DrSc.	60	0.60
9.	Ing. Igor Tvaroška, DrSc.	5	0.05
Samostatní vedeckí pracovníci			
1.	RNDr. Marek Baráth, PhD.	100	1.00
2.	Mgr. Peter Baráth, PhD.	80	0.80
3.	Ing. Maroš Bella, PhD.	100	1.00
4.	Ing. Tomáš Bertók, PhD.	50	0.50
5.	Mgr. Jana Blahutová, PhD.	100	1.00
6.	Ing. Marek Bučko, PhD.	100	1.00
7.	Mgr. Peter Capek, PhD.	50	0.50
8.	Ing. Alžbeta Čížová, PhD.	100	1.00
9.	Mgr. Maksym Danchenko, PhD.	50	0.50
10.	Ing. Pavol Farkaš, PhD.	100	1.00
11.	RNDr. Alena Holazová, PhD.	80	0.80
12.	Ing. Eva Hrabárová, PhD.	50	0.50
13.	Ing. Miloš Hricovíni, PhD.	100	1.00
14.	RNDr. Zuzana Hricovíniová, PhD.	100	1.00
15.	Ing. Jaroslav Katrlík, PhD.	100	1.00
16.	RNDr. Jaroslav Klaudiny, PhD.	100	1.00
17.	RNDr. Karin Kollárová, PhD.	100	1.00
18.	Mgr. Juraj Kóňa, PhD.	100	1.00

19.	Ing. Zuzana Košťálová, PhD.	100	1.00
20.	Mgr. Stanislav Kozmon, PhD.	100	1.00
21.	Ing. Ľubomír Kremnický, PhD.	100	1.00
22.	Mgr. Danica Kučerová, PhD.	100	0.08
23.	RNDr. Lenka Lorencová, PhD.	100	1.00
24.	prof. RNDr. Alexander Lux, CSc.	5	0.05
25.	Ing. Vladimír Mastihuba, PhD.	100	1.00
26.	Ing. Mária Mastihubová, PhD.	100	1.00
27.	Ing. Júlia Mičová, PhD.	100	1.00
28.	RNDr. Ján Mucha, CSc.	100	1.00
29.	Ing. Jozef Nahálka, PhD.	100	1.00
30.	Ing. Marek Nemčovič, PhD.	100	1.00
31.	Ing. Ema Paulovičová, CSc.	100	1.00
32.	Ing. Lucia Paulovičová, PhD.	100	0.00
33.	Ing. Vladimír Pätoprstý, PhD.	100	1.00
34.	Ing. Monika Poláková, PhD.	100	1.00
35.	Mgr. Vladimír Puchart, PhD.	100	1.00
36.	Ing. Hana Schusterová, PhD.	100	0.00
37.	Ing. Vladimír Sládek, PhD.	100	1.00
38.	Ing. Eva Stratilová, PhD.	100	1.00
39.	Ing. Sergej Šesták, PhD.	100	1.00
40.	Ing. Michal Šoral, PhD.	100	1.00
41.	Ing. Katarína Šuchová, PhD.	100	1.00
42.	Ing. Renáta Vadkertiová, PhD.	100	1.00
43.	Ing. Alica Vikartovská, PhD.	100	1.00
44.	Mgr. Zuzana Vivodová, PhD.	100	0.58
Vedeckí pracovníci			
1.	Mgr. Gábor Beke, PhD.	50	0.50
2.	RNDr. Jana Bellová, PhD.	100	0.00
3.	RNDr. Sandra Bieliková, PhD.	100	1.00
4.	Ing. Anna Blšáková, PhD.	100	1.00
5.	Mgr. Viera Dujnič, PhD.	100	1.00
6.	doc. Mgr. Maksym Fizer, PhD.	100	0.33
7.	Mgr. Oksana Fizer, PhD.	100	0.33
8.	Ing. Michal Híreš, PhD.	100	1.00

9.	Mgr. Ágnes Horváthová, PhD.	100	1.00
10.	Ing. Michal Hricovíni, PhD.	100	1.00
11.	Ing. Štefánia Hrončeková, PhD.	100	1.00
12.	Ing. Andrej Chyba, PhD.	100	1.00
13.	RNDr. Eduard Jáné, PhD.	75	0.75
14.	RNDr. Anna Kaliňáková, PhD.	25	0.12
15.	Mgr. Elena Karnišová Potocká, PhD.	100	1.00
16.	Ing. Peter Kis, PhD.	100	0.00
17.	Mgr. Tomáš Klunda, PhD.	100	1.00
18.	Mgr. Lenka Kohútová, PhD.	100	1.00
19.	Ing. Romana Köszagová, PhD.	100	1.00
20.	RNDr. Ján Kozák, PhD.	100	1.00
21.	Ing. Filip Květoň, PhD.	100	1.00
22.	Mgr. Eva Labancová, PhD.	100	1.00
23.	Mgr. Maroš Laho, PhD.	100	1.00
24.	Mgr. Jana Mečárová, PhD.	100	1.00
25.	Ing. Zuzana Pakanová, PhD.	100	1.00
26.	RNDr. Klaudia Palenčárová, PhD.	100	0.00
27.	Ing. Lucia Pažitná, PhD.	100	1.00
28.	RNDr. Veronika Pinková Gajdošová, PhD.	20	0.06
29.	MVDr. Jana Pipiková, PhD.	100	1.00
30.	prof. Ing. Milan Polakovič, PhD.	40	0.30
31.	Ing. Božena Pribulová, PhD.	100	1.00
32.	Ing. Miroslav Rajninec, PhD.	25	0.12
33.	MSC. Santosh Ram Jadhav, PhD.	100	0.50
34.	Mgr. Barbora Stratilová, PhD.	100	1.00
35.	Mgr. Mária Šedivá, PhD.	100	1.00
36.	Mgr. Kristína Šípošová, PhD.	100	0.47
37.	RNDr. Iveta Uhliariková, PhD.	100	1.00
38.	Ing. Kristína Vadinová, PhD.	100	0.00
39.	Mgr. Romana Vrzoňová, PhD.	100	1.00
40.	RNDr. Jana Ziburová, PhD.	100	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Matej Cvečko	5	0.05
2.	Ing. Lucia Černáková	5	0.05

3.	Ing. Erika Farkašová	100	1.00
4.	Mgr. Andrea Gažiová	40	0.00
5.	Ing. Peter Haluz	5	0.05
6.	Ing. Tatiana Janegová	100	0.08
7.	Ing. Kristína Kianičková	5	0.05
8.	Mgr. Rebeka Kodríková	10	0.10
9.	Ing. Mária Kopáčová	100	1.00
10.	Ing. Hana Kováčová	100	1.00
11.	Mgr. Maroš Krchňák	10	0.10
12.	Ing. Peter Magdolen	100	1.00
13.	Ing. Filip Pančík	50	0.50
14.	Mgr. Jaroslav Polák	5	0.05
15.	Mgr. Barbara Siváková	100	1.00
16.	Ing. Jozef Turjan	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc. Barbora Alföldyová	100	1.00
2.	Bc. Katarína Koňušiaková	100	1.00
3.	Ing. Bc. Mária Lindorová	20	0.20
4.	Mgr. Ondrej Penzeš	60	0.60
5.	Ing. Ema Podobová	100	1.00
6.	Bc. Jaroslav Valášik	100	1.00
7.	Mgr. Jana Žabková	100	1.00
Odborní pracovníci ÚSV			
1.	Jana Bartková	100	1.00
2.	Veronika Bencová	100	1.00
3.	Alena Bordáčová	100	1.00
4.	Rebeca Dávid	50	0.50
5.	Eva Filipková	100	1.00
6.	Ľudmila Gažíková	100	1.00
7.	Jana Guthová	100	1.00
8.	Beáta Chválová	100	1.00
9.	Beáta Kalivodová	100	1.00
10.	Eva Morháčová	100	1.00
11.	Milan Novosad	100	1.00
12.	Margita Plšková	150	1.50

13.	Milan Rudolf	100	1.00
14.	Kvetoslava Sabová	100	1.00
15.	Zdena Smolková	100	1.00
16.	Radoslava Šályová	100	1.00
17.	Alena Šoltésová	100	1.00
18.	Oľga Švančarová	100	1.00
19.	Vojtech Tóth	100	1.00
20.	Matej Vaš	100	1.00
21.	Mariana Vlčeková	100	1.00
22.	Erika Voleková	100	1.00
23.	Scarlett Weinzettlová	100	1.00
Ostatní pracovníci			
1.	Ladislav Baláži	100	1.00
2.	Anna Fehérová	100	1.00
3.	Tibor Holub	100	0.08
4.	Marcela Kozmonová	100	1.00
5.	Elena Masarovičová	100	1.00
6.	Miroslav Pír	100	1.00
7.	Peter Simandl	100	1.00
8.	Albína Ščepánová	100	1.00
9.	František Špetko	80	0.80
10.	Veronika Voleková	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Vedeckí pracovníci			
1.	Ing. Tomáš Krajčovič, PhD.	31.8.2022	0.14
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Juvissan Medalith Aguedo Ariza	31.8.2022	0.67
2.	Mgr. Ľuboš Hudák	31.7.2022	0.58
3.	MSc. Paras Harendra Kundalia	31.8.2022	0.67
Odborní pracovníci ÚSV			
1.	Eva Filipková	31.12.2022	1.00
2.	Dominik Gúth	15.9.2022	0.70
Ostatní pracovníci			

1.	Juraj Kozmon	5.9.2022	0.67

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	MSc. Marko Bajus	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Martina Belková	Prírodovedecká fakulta UK	4.1.22 biochémia
3.	Ing. Matej Cvečko	Fakulta chemickej a potravinárskej technológie STU	4.1.16 organická chémia
4.	Ing. Lucia Černáková	Slovenská technická univerzita v Bratislave	1420 chémia
5.	MSc. Peter Gabko	Fakulta chemickej a potravinárskej technológie STU	1420 chémia
6.	Mgr. Diana Hačkuličová	Prírodovedecká fakulta UK	1536 biológia
7.	RNDr. Marietta Hakarová	Prírodovedecká fakulta UK	5.2.25 biotechnológie
8.	Ing. Peter Haluz	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
9.	Ing. Kristína Kianičková	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
10.	Mgr. Rebeka Kodríková	Prírodovedecká fakulta UK	1420 chémia
11.	Ing. Natália Košútová	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
12.	Mgr. Maroš Krchňák	Prírodovedecká fakulta UK	1420 chémia
13.	MSc. Walid Fathallah Saad Mohammed Moussa	Fakulta chemickej a potravinárskej technológie STU	2908 biotechnológie
14.	Ing. Filip Pančík	Prírodovedecká fakulta UK	4.1.18 fyzikálna chémia
15.	Mgr. Apoorva Soni	Slovenská technická univerzita v Bratislave	1420 chémia
16.	Ing. Veronika Vráblová	Fakulta chemickej a potravinárskej technológie STU	2908 biotechnológie
Interní doktorandi hradení z iných zdrojov			
1.	MSc. Juvissan Medalith Aguedo Ariza	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
2.	MSc. Paras Harendra Kundalia	Fakulta chemickej a potravinárskej technológie STU	5.2.25 biotechnológie
Externí doktorandi			
1.	Mgr. Veronika Lukáčová	Prírodovedecká fakulta UK	1420 chémia
2.	Ing. Andrea Pinkeová	Slovenská technická univerzita v Bratislave	1420 chémia
3.	MSc. Adela Tomíková	Slovenská technická univerzita v Bratislave	1420 chémia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Mgr. Barbora Stratilová, PhD.	22.8.2022	23.8.2022	100
2.	RNDr. Veronika Pinková Gajdošová, PhD.	23.8.2022	1.9.2022	20
3.	Ing. Lucia Pažitná, PhD.	24.8.2022	25.8.2022	100
4.	Ing. Štefánia Hrončeková, PhD.	24.8.2022	25.8.2022	100
5.	Ing. Anna Blšáková, PhD.	18.8.2022	1.9.2022	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
1.	doc. Ing. Vladimír Farkaš, DrSc.

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medzivládna dohoda

1.) Hodnotenie vplyvu rastových podmienok na štrukturálnu charakteristiku glykánov bunkovej steny Cyberlindnera jadinii ATCC 9950 *(Evaluation of the influence of growth conditions on Cyberlindnera jadinii ATCC 9950 cell wall glycans structural characteristic)*

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	14.3.2022 / 14.4.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Výsledkom spolupráce je publikácia: Anna, BW., Pavol, F., Paulina, C. et al. Antimicrobial and prebiotic activity of mannoproteins isolated from conventional and nonconventional yeast species—the study on selected microorganisms. World J Microbiol Biotechnol 38, 256 (2022). https://doi.org/10.1007/s11274-022-03448-5 a na ďalšej publikácii sa pracuje.
Výsledkom práce je aj memorandum o ďalšej spolupráci, formalizovala sa asistencia pri školení doktorandky v Poľsku a podáva sa projekt (appl. no.: OPUS-24 (LAP) registration no. 576105) v Poľsku (konzorcium Poľsko, Slovensko, Česko).

2.) Analýza nukleových kyselín, proteínov a metabolitov ako potenciálnych cirkulujúcich biomarkerov tehotenskej cukrovky *(Analysis of nucleic acids, proteins and metabolites as potential circulating biomarkers of pregnancy diabetes)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.3.2020 / 31.12.2022
Evidenčné číslo projektu:	DS-FR-19-0034
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Srbsko: 1
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 4703 €

Dosiahnuté výsledky:
V rámci projektu trilaterálnej spolupráce sa previedol rad analýz s cieľom zistiť, či v sérových glykoproteínoch nachádzajúcich sa v klinických vzorkách získaných od pacientiek s tehotenskou cukrovkou dochádza k zmenám ich glykánového zloženia v súvislosti s týmto ochorením. Získané výsledky boli prezentované v roku 2022 na 4 konferenciách a zverejnené v zborníkoch, a boli spracované do 2 vedeckých publikácií, ktoré sú v recenznom konaní.

Publikované výstupy projektu v roku 2022:
PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIČ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MIKOVIĆ, Željko - KATRLÍK, Jaroslav. Analysis of glycan changes in gestational diabetes mallitus. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 77. ISBN 978-80-971156-8-5. ISSN 1339-7036.

PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - ROBAJAC, Dragana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ŠUNDERIĆ, Miloš - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MIKOVIĆ, Željko - NEDIĆ, Olgica - KATRLÍK, Jaroslav. Lectin-based glycoprotein microarray – a tool for glycan analysis of gestational diabetes mellitus samples. In The Biomania Student Scientific Meeting, Brno, Czechia, 2022. Masaryk University Press, p. 100. ISBN 978-80-280-0040-0.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Lectin-based glycoprotein microarray: high-throughput glycomics tool. In Debrecen Colloquium on Carbohydrates 2020 in 2022, Program and Abstracts, Debrecen, Hungary, 2022. University of Debrecen, p. 87. ISBN 978-963-490-460-1.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Glycoprofiling by lectin-based glycoprotein microarrays. In 4th Australasian Glycoscience Symposium & 9th Warren Workshop, Abstracts, Gold Coast, Australia, 2022. Australian Glycoscience Society, p. 21.

3.) Nové lektíny pre analýzu glykánov s využitím v diagnostike, biomedicíne a biotechnológii
(New lectins for glycan analysis with diagnostic, biomedicine and biotechnological applications)

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.3.2022 / 31.12.2023
Evidenčné číslo projektu:	SK-SRB-21-0046
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Srbsko: 1
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 2350 €

Dosiahnuté výsledky:
V rámci projektu bilaterálnej spolupráce zameraného na nové lektíny pre analýzu glykánov s využitím v diagnostike, biomedicíne a biotechnológii boli testované a využité lektíny pre analýzy rôznych biologických vzoriek v glykoproteínovom microarray formáte. Získané výsledky boli prezentované v roku 2022 na 3 konferenciách a zverejnené v zborníkoch, a boli spracované do jednej vedeckej publikácie, ktorá je v recenznom konaní.

Publikované výstupy projektu v roku 2022:
KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - BARÁTH, Peter - KATRLÍKOVÁ, Eva - ŠUBA, Ján - TREBATICKÁ, Jana - KATRLÍK, Jaroslav. Lectin-based microarray and maldi-tof-ms approaches in study of glycan changes in ADHD. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 91. ISBN 978-80-971156-8-5. ISSN 1339-7036.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Lectin-based glycoprotein microarray: high-throughput glycomics tool. In Debrecen Colloquium on Carbohydrates 2020 in 2022, Program and Abstracts, Debrecen, Hungary, 2022. University of Debrecen, p. 87. ISBN 978-963-490-460-1.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Glycoprofiling by lectin-based glycoprotein microarrays. In 4th Australasian Glycoscience Symposium & 9th Warren Workshop, Abstracts, Gold Coast, Australia, 2022. Australian Glycoscience Society, p. 21.

Programy: COST

4.) Európska multidisciplinárna platforma pre morskú biotechnológiu *(European transdisciplinary networking platform for marine biotechnology (Ocean4Biotech))*

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	29.10.2019 / 28.10.2023
Evidenčné číslo projektu:	COST Action CA18238
Organizácia je koordinátorom projektu:	nie
Koordinátor:	National Institute of Biology
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
V rámci nášho štúdia zameraného na hľadanie nových druhov mikrorias s významnou produkciou biopolymérov (EPS), sme objasnili primárnu štruktúru pomerne komplexného heteropolysacharidu a overili jeho antioxidačnú aktivitu.

UHLIARIKOVÁ, Iveta - MATULOVÁ, Mária - KOŠŤÁLOVÁ, Zuzana - Lukavský, Jaromír - CAPEK, Peter. Lactylated acidic exopolysaccharide produced by the cyanobacterium Nostoc cf. linckia. Carbohydrate Polymers 276 (2022) 118801.

5.) Európska sieť adjuvanjs pre vakcíny *(European Network of Vaccine Adjuvants)*

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	13.11.2017 / 12.5.2022
Evidenčné číslo projektu:	CA16231
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Vaccine Formulation Institute Switzerland
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 1250 €

Dosiahnuté výsledky:
Bola pripravená publikácia: Ema Paulovičová, Lucia Paulovičová, Alžbeta Čížová, Jana Mečárová,

Pavol Farkaš, Slavomír Bystrický. Amphoteric mannan as immune response modifier. New model immunobiologically active Candida albicans mannan-based formula. Aktualne v recenzii.

6.) Európska sieť pre diagnostiku a liečbu bakteriálnych infekcií rezistentných voči antibiotikám *(European Network for diagnosis and treatment of antibiotic-resistant bacterial infections)*

Zodpovedný riešiteľ:	Pavol Farkaš
Trvanie projektu:	6.10.2022 / 5.10.2026
Evidenčné číslo projektu:	CA21145
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Siena
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Boli kreované pracovné skupiny, definované priority projektu, schválený rozpočet a určený termín prvej projektovej konferencie.

7.) Inovácie s glykánmi: nové horizonty od syntézy po nové biologické ciele *(Innovation with Glycans: new frontiers from synthesis to new biological targets)*

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	8.4.2019 / 7.4.2023
Evidenčné číslo projektu:	COST Action CA18103
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Milan
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels (COST): 996 € Podpora medzinárodnej spolupráce z národných zdrojov: 5000 €

Dosiahnuté výsledky:
Skupina Dr. Hricovíniho:
HRICOVÍNI, Michal - HRICOVÍNI, Miloš. Molecular structure in Sulphated Saccharides: Theory and Experiment – In INNOGLY - Innovation with Glycans: Annual Meeting 2022, Lugano, 4.-6. May, Switzerland, p. 42. Typ: GII

PEREZ, Serge - MAKSHAKOVA, Olga - ANGULO Jesus - BEDINI, Emiliano - BISIO, Antonella - DE PAZ CARRERA, Jose Luis - FADDA, Elisa - GUERRINI, Marco - HRICOVÍNI, Michal - HRICOVÍNI, Miloš - LISACEK, Frederique - NIETO, Pedro - PAGEL, Kevin - PAIRARDI, Gulia - RICHTER, Ralf - SAMSONOV, Sergey - VIVES, Romain - NIKITOVIC, Dragana - BLUM, Sylvie Richard: Glycosaminoglycans: What remains to be deciphered? J. Am. Chem. Soc., in press

Skupina Dr. Mastihubu:
Boli vyvinuté metódy stanovenia aktivity diglykozidáz pomocou pripravených chromogénnych prób. Bola nadviazaná spolupráca s Dr. Ritou Ventura (Universita NOVA, Lisabon) v oblasti selektívnej enzýmovej protekcie a deprotekcie mono- a oligosacharidov, ktorá vyústila do pobytu

portugalského doktoranda v Laboratóriu biokatalýza a organickej syntézy. Naopak, jeden z pracovníkov laboratória je na dlhodobom výskumnom pobyte v skupine Dr. Ventura.

CVEČKO, Matej - KIS, Peter - HALUZ, Peter - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Synthesis of chromogenic probes for screening of diglycosidases. In Innogly-annual meeting 2022. - Lugano, 2022, p. 37. (INNOGLY - Innovation with Glycans : Annual Meeting 2022) Typ: GII

MASTIHUBA, Vladimír - BELÁK, Miroslav - MASTIHUBOVÁ, Mária - KARNIŠOVÁ POTOCKÁ, Elena. New type of activated donor for enzymatic transglycosylations. In Innogly-annual meeting 2022 : Book of Abstracts. - Lugano, 2022, p. 46. (INNOGLY - Innovation with Glycans : Annual Meeting 2022) Typ: GII

8.) Odpadové biorafinérne technológie na urýchlenie udržateľných energetických procesov *(Waste biorefinery technologies for accelerating sustainable energy processes)*

Zodpovedný riešiteľ:	Elena Karnišová Potocká
Trvanie projektu:	27.10.2021 / 26.10.2025
Evidenčné číslo projektu:	CA20127
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Instituto Politecnico de Portalegre
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:
Enzymatická príprava alkyl rutinozidov s využitím kvetných púčikov sofory japonskej (okrasná rastlina bežne pestovaná aj na Slovensku) ako zdroja enzýmu aj substrátu.

HALUZ, Peter - KARNIŠOVÁ POTOCKÁ, Elena - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. PREPARATION OF ALKYL RUTINOSIDES USING SOPHORA JAPONICA: : BIOCATALYST AND SUBSTRATE AT ONCE. In 21. setkání biochemikú a molekulárních biologú : sborník příspěvkú. 1. vyd. - Brno : Masarikova univerzita, 2022, p. 62. ISBN 978-80-280-0136-0. (XXI. Setkání biochemiku a molekulárních biologú) Typ: AFG

9.) Funkčné glykonanomateriály pre vývoj sond pre diagnostiku a cielenú terapiu *(Functional glyconanomaterials for the development of diagnostics and targeted therapeutic probes (GLYCONanoPROBES))*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	14.3.2019 / 13.3.2023
Evidenčné číslo projektu:	COST Action CA18132
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Bristol
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels (COST): 950 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
Získali sa výsledky v oblasti vývoja metód analýzy biologicky významných glykánov a glykobiomarkerov najmä v súvislosti s ochorením COVID-19 vo vzorkách pľúcneho tkaniva a vo vzorkách pacientskych sér s rakovinou. Tieto výsledky boli prezentované v roku 2022 na 4 konferenciách a zverejnené v zborníkoch

Publikované výstupy projektu v roku 2022:
KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - BARÁTH, Peter - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - KVĚTOŇ, Filip - PANČÍK, Filip - JANEGA, Pavol - KATRLÍK, Jaroslav. Glycoprofiling of fixed lung tissue. In Czech Chemical Society Symposium Series. - Praha, ČR : Czech Chemical Society, 2022, roč. 20, č. 1, p. 21. ISSN 2336-7202.

KIANIČKOVÁ, Kristína - PAŽITNÁ, Lucia - KUNDALIA, Paras - PAKANOVÁ, Zuzana - NEMČOVIČ, Marek - PANČÍK, Filip - JANEGA, Pavol - BARÁTH, Peter - KATRLÍK, Jaroslav. Covid-19: new perspectives through tissue glycoprofiling. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 75. ISBN 978-80-971156-8-5. ISSN 1339-7036.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Lectin-based glycoprotein microarray: high-throughput glycomics tool. In Debrecen Colloquium on Carbohydrates 2020 in 2022, Program and Abstracts, Debrecen, Hungary, 2022. University of Debrecen, p. 87. ISBN 978-963-490-460-1.

KATRLÍK, Jaroslav - PAŽITNÁ, Lucia - KUNDALIA, Paras - KIANIČKOVÁ, Kristína. Glycoprofiling by lectin-based glycoprotein microarrays. In 4th Australasian Glycoscience Symposium & 9th Warren Workshop, Abstracts, Gold Coast, Australia, 2022. Australian Glycoscience Society, p. 21.

10.) Konverzia molekulárnych profilov myeloidných buniek na biomarkery zápalu a rakoviny (Mye-InfoBank) *(Converting molecular profiles of myeloid cells into biomarkers for inflammation and cancer (Mye-InfoBank))*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	6.10.2021 / 5.10.2025
Evidenčné číslo projektu:	COST Action CA20117
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University Hospital Essen
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 3125 €

Dosiahnuté výsledky:
Získali sa výsledky v oblasti analýzy glykobiomarkerov v súvislosti s tehotenskou cukrovkou. Tieto výsledky boli prezentované v roku 2022 na 2 konferenciách a zverejnené v zborníkoch.

Publikované výstupy projektu v roku 2022:
PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIĆ, Zorana - ROBAJAC, Dragana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Ana - ŠUNDERIĆ, Miloš - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MIKOVIĆ, Željko - NEDIĆ,

Olgica - KATRLÍK, Jaroslav. Lectin-based glycoprotein microarray – a tool for glycan analysis of gestational diabetes mellitus samples. In The Biomania Student Scientific Meeting, Brno, Czechia, 2022. Masaryk University Press, p. 100. ISBN 978-80-280-0040-0.

PAŽITNÁ, Lucia - KIANIČKOVÁ, Kristína - KUNDALIA, Paras - DOBRIJEVIČ, Zorana - GLIGORIJEVIĆ, Nikola - MILJUŠ, Goran - PENEZIĆ, Dragana - ŠUNDERIĆ, Miloš - NEDIĆ, Olgica - MANDIĆ MARKOVIĆ, Vesna - RADOJIČIĆ, Ognjen - MIKOVIĆ, Željko - KATRLÍK, Jaroslav. Analysis of glycan changes in gestational diabetes mallitus. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 77. ISBN 978-80-971156-8-5. ISSN 1339-7036.

11.) Sieť kváskovej biotechnológie zameraná na nové, zdravšie a trvalo udržateľné potraviny a bioprocesy *(SOURDOugh biotechnology network towards novel, healthier and sustainable food and bIoproCesseS)*

Zodpovedný riešiteľ:	Zuzana Košťálová
Trvanie projektu:	10.4.2019 / 9.10.2023
Evidenčné číslo projektu:	COST Action CA18101
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Porto
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels (COST): 699 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
Pokračovalo sa vo výskume polysacharidov, ktoré sa používajú ako aditíva pri kváskovej technológii. Pektíny sú kyslé polysacharidy, ktoré sa používajú pri pečení, aby pomohli absorbovať vodu, zväčšiť objem chleba a poskytnúť jemnú, chutnú textúru. Ich reologické vlastnosti sú ovplyvnené ich detailnou štruktúrou. Pri pektínoch z tekvicovej biomasy, šupiek lieskových orechov, listov z netýkavky a plodov trniek bola pomocou GC-MS, HPAEC-PAD, FT-IR a NMR techník identifikovaná štruktúra. Zistené boli rozdiely v obsahu neutrálnych cukrov a molekulovej hmotnosti, a tiež degradácia na základnom polygalakturónovom reťazci. Dané výsledky boli prezentované na medzinárodnej konferencii.

KOŠŤÁLOVÁ, Zuzana - CAPEK, Peter. Structural Diversity of pectic polysaccharides from different plant sources. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. Ed.: Jaroslav Katrlík, Marek Baráth, Karin Kollárová. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 97. ISBN 978-80-971156-8-5. ISSN 1339-7036. (15th Bratislava Symposium on Saccharides) Typ: AFD

12.) Čelom k nulovému používaniu pesticídov v poľnohospodárstve: Európska sieť pre udržateľnosť *(Towards zer0 Pesticide AGRIculture : European Network for sustainability (T0P-AGRI-Network))*

Zodpovedný riešiteľ:	Eva Labancová
Trvanie projektu:	19.9.2022 / 18.9.2026
Evidenčné číslo projektu:	CA21134
Organizácia je koordinátorom projektu:	nie
Koordinátor:	INRAE France

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
V septembri 2022 sa uskutočnilo stretnutie s názvom "CA21134 1st Management Committee meeting". Stretnutie sa konalo online cez platformu zoom. Na stretnutí predstavitelia COSTu informovali o úlohách členov COSTu a umožnili online priebeh hlasovania do pozícií hlavného koordinátora projektu, zástupcu a jednotlivých vedúcich WG. Z pracovnej skupiny na CHÚ SAV v.v.i. sme sa pomocou online formulára prihlásili do WG3 "Breakthroughs in biological research offering new prospects in zero pesticide agriculture" a WG5 "Community building, dissemination and communication".

13.) Vybudovanie celoeurópskej siete pre udržateľné zhodnotenie lignínu *(Establishment of a Pan-European network on the sustainable valorisation of lignin (LignoCOST))*

Zodpovedný riešiteľ:	Vladimír Mastihuba
Trvanie projektu:	4.10.2018 / 3.4.2023
Evidenčné číslo projektu:	COST Action CA17128
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Stichting Wageningen Research
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
Boli uskutočnené enzýmové beta-manozylácie tyrozolu a hydroxytyrozolu ako jednoduchá a lacná alternatíva k náročnej chemickej syntéze.

MASTIHUBA, Vladimír. Glycosidases as a syntetic tool in biocatalysis. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. Ed.: Jaroslav Katrlík, Marek Baráth, Karin Kollárová. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 42. ISBN 978-80-971156-8-5. ISSN 1339-7036. (15th Bratislava Symposium on Saccharides) Typ: AFF

14.) Sieť zeleného chemického inžinierstva smerom k zvyšovaniu udržateľnosti procesov *(Green Chemical Engineering Network towards upscaling sustainable processes (GREENERING))*

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	14.10.2019 / 13.4.2024
Evidenčné číslo projektu:	COST Action CA18224
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Faculdade de Ci?ncias e Tecnologia, Universidade Nova de Lisboa (FCT NOVA)
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0 Podpora medzinárodnej spolupráce z národných zdrojov: 5000 €

Dosiahnuté výsledky:
Skupina Dr. Mastihubovej:
Optimalizovala sa enzýmová príprava hamamelitannínu a pripravuje sa publikácia. Tiež sa pracovalo na nájdení zelených a lacných zdrojov diglykozidáz.

HALUZ, Peter - KIS, Peter - MASTIHUBOVÁ, Mária - MASTIHUBA, Vladimír. Aromase TM H2 as a source of rare diglycosidase activities. In Proceedings of the 15th Bratislava Symposium on Saccharides : BSS. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 112. ISBN 978-80-971156-8-5. ISSN 1339-7036. (15th Bratislava Symposium on Saccharides)

Skupina Dr. Košťálovej:
Výskum sa zaoberal identifikáciou a štrukturálnou charakterizáciou polysacharidov z rôznych odpadoch. Bola nadviazaná spolupráca s Aristotle University of Thessaloniki, v ktorej boli identifikované a charakterizované galaktomanánové a arabinogalaktánové polysacharidové frakcie z kávových odpadov. Výsledkom spolupráce bola návšteva pracoviska Dept. of Food Science & Technology, Aristotle University of Thessaloniki a výsledky sa sumarizujú do spoločnej publikácie.

15.) Nekonvenčné kvasinky na výrobu bioproduktov *(Non-conventional yeasts for the production of bioproducts (YEAST4BIO))*

Zodpovedný riešiteľ:	Katarína Šuchová
Trvanie projektu:	7.11.2019 / 6.5.2024
Evidenčné číslo projektu:	COST Action CA18229
Organizácia je koordinátorom projektu:	nie
Koordinátor:	IMDEA Energy Institute
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EC Brussels (COST): 1231 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
V predchádzajúcom období sme vrámci COST projektu CA18229 „Non-conventional yeasts for the production of bioproducts“ v spolupráci s Doc. Ing. Martinom Rebrošom, PhD. z Ústavu biotechnológie, Fakulta chemickej a potravinárskej technológie STU v Bratislave, naklonovali a exprimovali gén kódujúci bifunkčnú glukuronoxylanázu/xylobiohydrolázu SlXyn30A z kvasinky Sugiyamaella lignohabitans a tento enzým sme charakterizovali. Začiatkom roka 2022 vyšla publikácia Šuchová K., Chyba A., Hegyi Z., Rebroš M., Puchart V. Yeast GH30 xylanase from Sugiyamaella lignohabitans is a glucuronoxylanase with auxiliary xylobiohydrolase activity. Molecules 2022, vol. 27, art. 751. https://doi.org/10.3390/molecules27030751 (IF 2021 – 4.927). Práca na tomto enzýme stále pokračuje a v ďalšom kroku sa chceme sústrediť na kryštalizáciu a štruktúrnu analýzu tohto enzýmu.
V rámci spolupráce s účastníkmi COST akcie CA18229 zo Švédska a Maďarska sme napísali rozsiahly prehľadný článok o celulolytických a xylanolytických kvasinkách, o ich enzýmoch a biotechnologickom využití. Tieto kvasinky majú potenciál pri konverzii rastlinnej biomasy na priemyselne zaujímavé produkty, ako je etanol alebo xylitol. Šuchová K., Fehér C., Ravn J.L., Bedő S., Biely P., Geijer C. Cellulose- and xylan-degrading yeasts: Enzymes, applications and biotechnological potential. Biotechnology Advances 2022, vol. 59, art. 107981. https://doi.org/10.1016/j.biotechadv.2022.107981 (IF 2021 – 17.681).

Programy: Bilaterálne - iné

16.) Spôsob účinku nových typov xylánolytických enzýmov a ich úloha pri hydrolýze neprístupných štruktúr rastlinných xylánov. *(Mode of action of novel types of xylanolytic enzymes and their role in hydrolysis of recalcitrant structures in plant xylans.)*

Zodpovedný riešiteľ:	Peter Biely
Trvanie projektu:	1.5.2021 / 30.4.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Novozymes: 10000 €

Dosiahnuté výsledky:

Programy: Iné

17.) Odozva O-špecifických polysacharidov a cholera. *(O-Specific polysaccharide responses and cholera.)*

Zodpovedný riešiteľ:	Slavomír Bystrický
Trvanie projektu:	1.4.2021 / 31.3.2023
Evidenčné číslo projektu:	5R37AI106878-07
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Massachusetts General Hospital
Počet spoluriešiteľských inštitúcií:	1 - USA: 1
Čerpané financie:	NIH, USA: 5088 € Podpora medzinárodnej spolupráce z národných zdrojov: 3750 €

Dosiahnuté výsledky:
KOVÁČ, Pavol - KAMRUZZAMAN, Mohammad - KELLY, Meagan - CHARLES, Richelle C. - CALDERWOOD, Sthepen B. - AKTER, Aklima - BISWAS, Rajib - KAISAR, M. Hasanul - BHUIYAN, Taufiqur R. - IVERS, Louise C. - TERNIER, Ralph - JEROME, Jean - Gregory - LU, Xiaowei - SOLIMAN, Sameh E. - RUTTENS, Bart - SAKSENA, Rina - O´CONNOR, Robert D. - MEČÁROVÁ, Jana - ČÍŽOVÁ, Alžbeta - QADRI, Firdausi - BYSTRICKÝ, Slavomír - XU, Peng - RYAN, Edwart T. Defining candidates for antigenic components of a conjugate vaccine against the disease vaused by vibrio cholerae O139. In Proceedings of the 15th Bratislava Symposium on Saccharides. 1. vyd. - Bratislava : Chemický ústav SAV, 2022, p. 111. ISBN 978-80-971156-8-5. ISSN 1339-7036. (15th Bratislava Symposium on Saccharides)

PANČÍK, Filip - PAKANOVÁ, Zuzana - MEČÁROVÁ, Jana - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Slavomír - KOZMON, Stanislav - BARÁTH, Peter. Fragmentation analysis of O-specific polysaccharide from bacteria Vibrio cholerae O139 by MALDI-TOF and LC/ESI-MS/MS. In European Journal of Mass Spectrometry, 2022, vol. 28, no. 1-2, p. 47-55. (2021: 1.436 - IF, Q3 - JCR, 0.265 - SJR, Q3 - SJR). ISSN 1469-0667. Dostupné na: https://doi.org/10.1177/14690667221099119

Programy: Horizont 2020

18.) Syntetická biológia sacharid-viažucich proteínov: inžinierstvo proteín-sacharidových interakcií na diagnostiku a cielenú bunkovú interakciu *(Synthetic biology of carbohydrate-binding proteins: engeneering protein-carbohydrate interactions for diagnostics and cell targeting)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.10.2018 / 31.3.2023
Evidenčné číslo projektu:	MSCA-ITN-ITN grant agreement ID: 814029
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Leeds
Počet spoluriešiteľských inštitúcií:	7 - Rakúsko: 2, Nemecko: 1, Dánsko: 1, Francúzsko: 2, Veľká Británia: 1
Čerpané financie:	EC Brussels: 76344 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:

Programy: JRP

19.) Dizajn, syntéza a charakterizácia účinných inhibítorov manozidáz na báze iminosacharidov a glykokonjugátov *(Design, synthesis and characterization of efficient mannosidase inhibitors related to iminosugars and glycoconjugates)*

Zodpovedný riešiteľ:	Maroš Bella
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	SAS-MOST/JRP/2019/882/GM-INHIB
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 0, Taiwan: 1
Čerpané financie:	MVTS SAV: 25000 €

Dosiahnuté výsledky:
V priebehu riešenia projektu bol vyvinutý syntetický prístup na prípravu 5-(4-halogén)benzylswainsonínov, ktoré boli navrhnuté na základe predchádzajúcich výsledkov a počítačového dizajnu ako účinné a selektívne inhibítory manozidáz z rodiny GH38. Do biologického testovania bola zaradená manozidáza AMAN-2, ktorá má aktívne miesto takmer identické s ľudskou Golgiho manozidázou, čím podáva lepší obraz o biologickej aktivite testovaných zlúčenín. 5-(4-Halogén)benzylswainsoníny sa ukázali ako selektívne nanomolárne inhibítory manozidázy AMAN-2 (IC50 29-78 nM) so selektivitnými pomermi (SI 295-1960) v porovnaní s Jack bean manozidázou (JBMan), ktorá predstavuje lyzozomálny typ manozidázy. Plánovaná návšteva partnerského pracoviska na Taiwane sa neuskutočnila z dôvodu taiwanských protipandemických opatrení COVID-19.

SLÁDEK, Vladimír - FEDOROV, Dimitri G.. The Importance of Charge Transfer and Solvent Screening in the Interactions of Backbones and Functional Groups in Amino Acid Residues and Nucleotides. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 13514. (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/ijms232113514 Typ: ADCA

SHIRKOV, Leonid - SLÁDEK, Vladimír. Ab Initio Relativistic Potential Energy Surface with Analytical Long-range Part of Benzene-Rn Complex and Its Application to Intermolecular Vibrations. In Chemical Physics, 2022, vol. 565, art. no. 111756. (2021: 2.552 - IF, Q3 - JCR, 0.460 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 0301-0104. Dostupné na: https://doi.org/10.1016/j.chemphys.2022.111756 Typ: ADCA

GABKO, Peter - BELLA, Maroš. Stereoselective synthesis of dihydroxylated 5-benzylpyrrolizidines and 5-bezylindolizidines as potential anticancer agents. In 19th Blue Danube Symposia on Heterocyclic Chemistry : Book of abstacts. 1. vyd. - Bratislava : Slovenská technická univerzita v Bratislave, 2022, p. 45. ISBN 978-80-8208-084-4. Typ: AFL

Programy: Mobility

20.) Syntéza nanočastíc oxidov prechodných kovov, ich plazmové spracovanie a štúdium fotoelektrických a fotokatalytických vlastností *(Synthesis of transition metal oxide nanoparticles, their plasma treatment and study of photoelectrical and photocatalytic properties)*

Zodpovedný riešiteľ:	Júlia Mičová
Trvanie projektu:	1.1.2021 / 31.12.2022
Evidenčné číslo projektu:	SAV-AV ČR-21-09
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Česko: 1
Čerpané financie:	SAV: 1500 €

Dosiahnuté výsledky:
Metódou hydrotermálneho rastu sa podarilo pripraviť niekoľko sérií dopovaných nanoštruktúr ZnO. Najväčšia pozornosť sa sústredila na dopovanie Mo, Er, resp. Ga. V spolupráci s partnerským pracoviskom, Fyzikální ústav AV ČR, v. v. i., boli pripravené štruktúry charakterizované spektroskopickými metódami (FTIR, Raman, XPS). Kryštalografické štruktúry boli určené pomocou röntgenovej difrakčnej analýzy, morfológia ich povrchov bola detegovaná pomocou elektrónovej skenovacej mikroskopie. Elektrónové stavy boli študované elektrónovou paramagnetickou rezonanciou (EPR) a optickou absorpčnou spektroskopiou. Centrá defektov boli detegované fotoluminiscenčnou spektroskopiou. Ďalej sa uskutočnilo plazmatické ošetrenie (kyslíková, príp. vodíková plazma) pripravených nanoštruktúr na báze ZnO. Na základe experimentov fotodegradácie farbív sa dá predpokladať, že vplyv plazmatického ošetrenia je väčší ako vplyv dopingu na fotokatalytické účinky ZnO.

BURYI, Maksym - BABIN, Vladimir - REMEŠ, Zdeněk - MIČOVÁ, Júlia. Charge Trapping processes in hydrothermally grow Er-doped ZnO. In Radiation Measurements, 2022, vol. 150, art. no. 106700. (2021: 1.743 - IF, Q2 - JCR, 0.569 - SJR, Q2 - SJR). ISSN 1350-4487. Dostupné na: https://doi.org/10.1016/j.radmeas.2021.106700 Typ: ADCA

BURYI, Maksym - REMEŠ, Zdeněk - BABIN, Vladimír - ARTEMENKO, Anna - CHERTOPALOV, Sergii - MIČOVÁ, Júlia. Cold plasma treatment of ZnO:Er nano- and microrods: The effect on luminescence and defects creation. In Journal of Alloys and Compounds, 2022, vol. 895, art. no. 162671 [17] p. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR,

karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2021.162671 Typ: ADCA

BURYI, Maksym - BABIN, Vladimir - ARTEMENKO, Anna - REMEŠ, Zdenek - DĚCKÁ, Kateřina - MIČOVÁ, Júlia. Hydrothermally grow ZnO: Mo nanorods exposed to X-ray : Luminescence and charge trapping phenomena. In Applied Surface Science, 2022, vol. 585, art. no. 152682. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2022.152682 Typ: ADCA

BURYI, Maksym - REMEŠ, Zdenek - BABIN, Vladimír - CHERTOPALOV, Sergii - DĚCKÁ, Kateřina - DOMINEC, Filip - MIČOVÁ, Júlia - NEYKOVA, Neda**. Free-Standing ZnO:Mo Nanorods Exposed to Hydrogen or Oxygen Plasma: Influence on the Intrinsic and Extrinsic Defect States. In Materials, 2022, vol. 15, art. no. 2261, p. 1-18. (2021: 3.748 - IF, Q1 - JCR, 0.604 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15062261 Typ: ADCA

MIČOVÁ, Júlia - REMES, Zdeněk - ARTEMENKO, Anna - BURYI, Maksym - LEBEDA, Miroslav - CHANG, Yu Ying. Plasma Treatment of Ga-Doped ZnO Nanorods. In Physica Status Solidi A : applications and materials science, 2022, vol. 219, no. 10, art. no. 2100663. (2021: 2.170 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 1862-6300. Dostupné na: https://doi.org/10.1002/pssa.202100663 Typ: ADCA

REMEŠ, Zdeněk - ARTEMENKO, Anna - UKRAINTSEV, Egor - SHARMA, Dhananjay K. - BURYI, Maksym - KROMKA, Alexander - POTOCKÝ, Štěpán - SZABÓ, Ondrej - KULÍČEK, Jaroslav - REZEK, Bohuslav - PORUBA, Aleš - MIČOVÁ, Júlia - HSU, Hua Shu. Changes of Morphological, Optical, and Electrical Properties Induced by Hydrogen Plasma on (0001) ZnO Surface. In Physica Status Solidi A : applications and materials science, 2022, vol. 219, no. 16, art. no. 2100427, [7] p. (2021: 2.170 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 1862-6300. Dostupné na: https://doi.org/10.1002/pssa.202100427 Typ: ADCA

Programy: ANSO

21.) Posilnenie potenciálu proteínov z rias na farbenie a obohacovanie potravín pomocou vysokotlakovej technológie *(Strengthening the potential of algal proteins for food colouring and fortification using high-pressure technology)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	ANSO-CR-PP-2021-01
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Faculty of Chemistry, Belgrade
Počet spoluriešiteľských inštitúcií:	8 - Francúzsko: 2, Grécko: 1, Čína: 1, Čierna Hora: 1, Srbsko: 3
Čerpané financie:	ANSO: 2158 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Dosiahnuté výsledky:
V rámci riešenia WP3 (Skríning prírodných zložiek potravín z hľadiska ich väzby na fykobiliproteíny rias) sa previedla optimalizácia protokolov pre meranie a charakterizáciu interakcií fykobiliproteín - ligand metódou povrchovej plazmónovej rezonancie (SPR). Vyvinuté protokoly budú v ďalšom roku riešenia projektu slúžiť na meranie interakcií vyselektovaných prírodných zložiek potravín s fykobiliproteínmi izolovanými z rias.

Domáce projekty

Programy: VEGA

1.) Dizajn, syntéza a štúdium vzťahu medzi štruktúrou, aktivitou a selektivitou inhibítorov enzýmov z rodiny GH38 *(Design, synthesis and study of structure-activity-selectivity relationship of inhibitors against enzymes from GH38 family)*

Zodpovedný riešiteľ:	Maroš Bella
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0031/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 19143 €

Dosiahnuté výsledky:

2.) Baeyer-Villigerove oxidácie, imobilizované bunky, mechanicky miešané bioreaktory, pneumaticky miešané bioreaktory, matematické modelovanie *(Baeyer-Villiger oxidations, immobilized cells, mechanically stirred bioreactors, pneumatically stirred bioreactors, mathematical modeling)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	1/0515/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta chemickej a potravinárskej technológie STU
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 4234 €

Dosiahnuté výsledky:

3.) Intenzifikácia vývoja, produkcie a neinvazívnej charakterizácie nových imobilizovaných celobunkových biokatalyzátorov na báze enzýmových kaskád pre produkciu chemických špecialít *(Intensification of the development, production and non-invasive characterization of new immobilized whole-cell biocatalysts based on enzyme cascades for the production of chemical specialities)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0130/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 8709 €

Dosiahnuté výsledky:

4.) Mikroskopické sinice a riasy ako významný zdroj exopolysacharidov *(Microscopic cyanobacteria and algae as an important source of exopolysaccharides)*

Zodpovedný riešiteľ:	Peter Capek
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0054/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 12761 €

Dosiahnuté výsledky:

5.) Funkcionalizované kvasinkové polysacharidy – perspektívna kategória biokompatibilných látok s antimikrobiálnou účinnosťou. *(Functionalized yeast polysaccharides – a prospective category of biocompatible substances with antimicrobial effectiveness.)*

Zodpovedný riešiteľ:	Alžbeta Čížová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0076/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6831 €

Dosiahnuté výsledky:

6.) Syntéza, fyzikálno-chemické a biologické vlastnosti prekurzorov na báze glykokonjugátov, N-heterocyklov a derivátov polysacharidovako potenciálnych antikarcinogénnych a antivirotických liečiv *(Synthesis, physicochemical, biological properties of glycoconjugates, N-heterocycle-based precursors and polysaccharide derivatives as potential anticancer and antiviral agents)*

Zodpovedný riešiteľ:	Miloš Hricovíni
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0071/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV(VEGA): 9252 €

Dosiahnuté výsledky:

7.) Biosenzorické zariadenia založené na funkcionalizovaných mikro- a nanoškálovaných biorozhraniach pre glykomické analýzy *(Biosensoring devices based on functionalized micro- and nanoscale biointerfaces for glycomic analyses)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0120/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 30245 €

Dosiahnuté výsledky:

8.) Antimikrobiálne látky v larválnej potrave včely a ich účinok voči patogénu moru včelieho plodu *(Antimicrobial substances in honeybee larval food and their effect against American foulbrood pathogen)*

Zodpovedný riešiteľ:	Jaroslav Klaudiny
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0164/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 9967 €

Dosiahnuté výsledky:

9.) Využitie pôvodných mikroorganizmov a prírodných zlúčenín na zlepšenie klíčenia, rastu rastlín a na zmiernenie abiotického stresu *(The utilisation of indigenous microorganisms and natural compounds for improvement of seed germination, plant growth and the amelioration of the abiotic stress)*

Zodpovedný riešiteľ:	Karin Kollárová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0055/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 14743 €

Dosiahnuté výsledky:

10.) Virtuálny skríning, syntéza a štúdium interakcií potenciálnych inhibítorov glykozyltransferáz *(Virtual screening, synthesis and study of the interactions of the potential glycosyltransferases inhibitors)*

Zodpovedný riešiteľ:	Stanislav Kozmon
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0137/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 13272 €

Dosiahnuté výsledky:

11.) Bioinšpirovaný oxidačný kapling prírodných fenolov *(Bioinspired oxidative coupling of natural phenols)*

Zodpovedný riešiteľ:	Mária Mastihubová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0111/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 17867 €

Dosiahnuté výsledky:

12.) Príprava a charakterizácia multifunkčného nanokompozitu Fe3O4-ZnO-biopolymér so zameraním na čistenie vôd *(Preparation and characterization of the multifunctional Fe3O4-ZnO-biopolymer nanocomposite with a focus on water purification)*

Zodpovedný riešiteľ:	Júlia Mičová
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	2/0157/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0

Čerpané financie: SAV(VEGA): 1276 €

Dosiahnuté výsledky:

13.) In vivo imobilizácia enzýmov aplikovaná v syntéze kyseliny hyalurónovej *(In vivo enzyme immobilization applied in the synthesis of hyaluronic acid)*

Zodpovedný riešiteľ:	Jozef Nahálka
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0064/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 14038 €

Dosiahnuté výsledky:

14.) Metabolické zmeny spojené s poruchami glykozylácie proteínov *(Metabolic changes associated with protein glycosylation disorders.)*

Zodpovedný riešiteľ:	Marek Nemčovič
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0060/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 6265 €

Dosiahnuté výsledky:

15.) Integrácia nových miniaturizovaných analytických systémov do úpravy, analýzy a preparácie komplexných biologických, environmentálnych a farmaceutických vzoriek

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	1/0116/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	doc. RNDr. Marián Masár, PhD.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 5918 €

Dosiahnuté výsledky:

16.) Pokročilé analytické techniky v štruktúrnej analýze polysacharidov.

Zodpovedný riešiteľ:	Vladimír Pätoprstý
Trvanie projektu:	1.1.2020 / 31.12.2022
Evidenčné číslo projektu:	2/0096/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 3400 €

Dosiahnuté výsledky:

17.) Nové enzýmy pre rozklad najneprístupnejších epitopov rastlinných polysacharidov *(Novel enzymes for the decomposition of the most recalcitrant epitopes of plant polysaccharides)*

Zodpovedný riešiteľ:	Vladimír Puchart
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0171/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 3924 €

Dosiahnuté výsledky:

18.) Kvasinky z fylosféry a pôdy ako užitočné agensy pre rastliny *(Phylloplane and pedobiont yeasts as beneficial agens for plants)*

Zodpovedný riešiteľ:	Renáta Vadkertiová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0151/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV (VEGA): 7028 €

Dosiahnuté výsledky:

Programy: APVV

19.) Proteín Dbl2 ako nový regulátor stability a dynamiky genómu v kvasinkách Schizosaccharomyces pombe *(Protein Dbl2 as a novel regulator of genome stability and dynamics*

in fission yeast)

Zodpovedný riešiteľ:	Silvia Bágeľová Poláková
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 31.12.2022
Evidenčné číslo projektu:	APVV-18-0219
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 6608 €

Dosiahnuté výsledky:

20.) Chronické ionizujúce žiarenie narúša odolnosť vodných rastlín voči škodcom: Štúdium a validácia biochemických mechanizmov *(Chronic ionizing radiation compromises resistance to pests in wild aquatic plants: Discovery and validation of biochemical mechanisms)*

Zodpovedný riešiteľ:	Peter Baráth
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0545
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biológie rastlín a biodiverzity SAV
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 10000 €

Dosiahnuté výsledky:

21.) Modifikácia povrchov ako bariéra pre adsorpciu proteínov *(Modification of surfaces as barrier to protein adsorption)*

Zodpovedný riešiteľ:	Zuzana Benková
Zodpovedný riešiteľ v organizácii SAV:	Stanislav Kozmon
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0346
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav polymérov SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 2491 €

Dosiahnuté výsledky:

22.) Imobilizácia a koimobilizácia viabilných celobunkových biokatalyzátorov s enzýmovými kaskádami pre produkciu chemických špecialít, vývoj metód ich charakterizácie a bioreaktorové inžinierstvo *(Immobilization and co-immobilization of viable whole-cell biocatalysts with enzyme cascades for production of chemical specialties, development of methods for their characterization and bioreactor engineering)*

Zodpovedný riešiteľ:	Marek Bučko
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0272
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 37537 €

Dosiahnuté výsledky:

23.) Kalibrácia metódy datovania autigénnym 10Be/9Be pre geochronologické modely najmladšieho kenozoika karpatsko-panónskeho regiónu *(Calibration of the authigenic 10Be/9Be dating method for geochronological models of the latest Cenozoic of the Carpathian-Pannonian region)*

Zodpovedný riešiteľ:	Andrej Chyba
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0120
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 9507 €

Dosiahnuté výsledky:

24.) Antivirálne liečivá proti COVID-19: Dizajn, syntéza a testovanie aktivity špecifických inhibítorov virálnych proteáz koronavírusu SARS-CoV-2 *(Antiviral drugs against COVID-19: Design, synthesis and biological activity testing of specific inhibitors of viral proteases of coronavirus SARS-CoV-2)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0108
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Farmaceutická fakulta
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	APVV: 3478 €

Dosiahnuté výsledky:

25.) Biočipové systémy na cielenú glykánovú analýzu biomarkerov pre biomedicínske a biotechnologické aplikácie *(Biochip systems for targeted glycan analysis of biomarkers for biomedical and biotechnological applications)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0243
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	4 - Slovensko: 4
Čerpané financie:	APVV: 30775 €

Dosiahnuté výsledky:

26.) Počítačový dizajn, syntéza, testovanie a dispozícia inhibítorov neuraminidáz chrípkového vírusu typu A ako potenciálnych antivirálnych látok *(Computational design, synthesis, testing and disposition of inhibitors of neuraminidases of influenza A virus as potential antiviral compounds)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0239
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Farmaceutická fakulta
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 5000 €

Dosiahnuté výsledky:

27.) Potenciál kremíka na zmiernenie toxicity arzénu a antimónu pri kultúrnych rastlinách *(Potential of silicon for mitigation of arsenic and antimony toxicity in agricultural crops)*

Zodpovedný riešiteľ:	Karin Kollárová
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0164
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Prírodovedecká fakulta
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 5000 €

Dosiahnuté výsledky:

28.) 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
Zodpovedný riešiteľ v organizácii SAV:	Mária Matulová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 9319 €

Dosiahnuté výsledky:
Identifikácia štruktúr intermediátov, potrebných k vysvetleniu biosyntézy nového antibiotika, bola prevedená v našich laboratóriách.

29.) Dizajn nových antituberkulóznych látok pomocou výpočtových metód a ich experimentálna evaluácia *(Computer-aided design of novel antituberculosis compounds and their experimental evaluation)*

Zodpovedný riešiteľ:	Stanislav Kozmon
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0230
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 29227 €

Dosiahnuté výsledky:

30.) Kotranskripčné formovanie pre-mRNA štruktúry, model štrukurálnych motívov nevyhnutných pre definíciu exónu *(Co-transcriptional folding of pre-mRNA, model of structural motifs required for exon definition)*

Zodpovedný riešiteľ:	Jana Královičová
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0096
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských	0

inštitúcií:
Čerpané financie: APVV: 9856 €

Dosiahnuté výsledky:

31.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi *(Interaction between proteases, chaperones and kinases in stress condition cause by pathological conditions)*

Zodpovedný riešiteľ: Eva Kutejová
Zodpovedný riešiteľ v organizácii SAV: Peter Baráth
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0298
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 21000 €

Dosiahnuté výsledky:

32.) Chemoenzymatická syntéza látok s farmaceutickým potenciálom: optimalizácia procesov produkcie fenyletanoidných glykozidov *(Chemoenzymatic synthesis of substances with pharmaceutical potential: Optimization of processes of phenylethanoid glycosides production)*

Zodpovedný riešiteľ: Vladimír Mastihuba
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0188
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 34030 €

Dosiahnuté výsledky:

33.) Vývoj bioimunoterapeutík inšpirovaný vírusovými trikmi: Liečenie aj napriek trikom *(Development of bioimmunotherapeutics inspired by viral tricks: Treating despite the tricks)*

Zodpovedný riešiteľ: Ivana Nemčovičová
Zodpovedný riešiteľ v organizácii SAV: Juraj Kóňa
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: APVV-19-0376
Organizácia je koordinátorom projektu: nie

Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 7500 €

Dosiahnuté výsledky:

34.) Mikrobiálne enzýmy rozkladu komplexných štruktúr rastlinných xylánov *(Microbial enzymes degrading complex structures of plant xylans)*

Zodpovedný riešiteľ:	Vladimír Puchart
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0591
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 65000 €

Dosiahnuté výsledky:

35.) Inovatívne prístupy v toxikológii starnutia *(Innovative approaches in toxicology of ageing)*

Zodpovedný riešiteľ:	Lucia Račková
Zodpovedný riešiteľ v organizácii SAV:	Peter Baráth
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0336
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 25376 €

Dosiahnuté výsledky:

36.) Viaclieková rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin *(Multidrug resistance of leukemia cells - Phenotype caused by interference of multimodal molecular reasons)*

Zodpovedný riešiteľ:	Zdena Sulová
Zodpovedný riešiteľ v organizácii SAV:	Jaroslav Katrlík
Trvanie projektu:	1.7.2020 / 30.5.2024
Evidenčné číslo projektu:	APVV-19-0093
Organizácia je koordinátorom projektu:	nie

Koordinátor:	Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	3 - Slovensko: 3
Čerpané financie:	APVV: 3780 €

Dosiahnuté výsledky:

37.) Malé štruktúrované motívy ako regulátory patofyziológie prirodzene neusporiadaného tau proteínu *(Small ordered motifs in regulation of pathophysiology of disordered protein tau)*

Zodpovedný riešiteľ:	Rostislav Škrabana
Zodpovedný riešiteľ v organizácii SAV:	Miloš Hricovíni
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0479
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 5308 €

Dosiahnuté výsledky:

38.) Glykánové bionanosenzory a bioanalytické zariadenia - ich konštrukcia, validácia a aplikácia v diagnostike rakoviny *(Glycan bionanosensors and bioanalytical devices - their construction, validation and application for cancer diagnostics)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.7.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0300
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 28796 €

Dosiahnuté výsledky:

39.) Rakovinové exozómy: izolácia a charakterizácia *(EXOsome from Tumours: Isolation and Characterisation)*

Zodpovedný riešiteľ:	Ján Tkáč
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0329
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 35683 €

Dosiahnuté výsledky:

Programy: Iné projekty

40.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine

Zodpovedný riešiteľ: Maksym Fizer
Trvanie projektu: 1.9.2022 / 31.8.2025
Evidenčné číslo projektu: 09I03-03-V01-00034
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

41.) Štipendiá pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine

Zodpovedný riešiteľ: Oksana Fizer
Trvanie projektu: 1.9.2022 / 31.8.2025
Evidenčné číslo projektu: 09I03-03-V01-00035
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -

Dosiahnuté výsledky:

42.) Glykoprofilácia proteínov prítomných v sére a v exózomoch pre včasnú diagnostiku rakoviny prostaty *(Glycoprofiling of proteins present in serum and exosomes for early prostate cancer diagnostics)*

Zodpovedný riešiteľ: Ján Tkáč
Trvanie projektu: 1.12.2019 / 31.12.2022
Evidenčné číslo projektu: 2019/68-CHÚSAV-1
Organizácia je koordinátorom projektu: áno
Koordinátor: Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Ministerstvo zdravotníctva SR: 46608 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Výskum a inovácie

43.) CEMBAM - Centrum medicínskeho bioaditívneho výskumu a výroby *(CEMBAM - Center of Medical Bio-additive Research and Production)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.9.2020 / 1.6.2023
Evidenčné číslo projektu:	313011V358
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií:	5 - Slovensko: 5
Čerpané financie:	-

Dosiahnuté výsledky:

44.) Centrum pre pokročilé terapie chronických zápalových ochorení pohybového aparátu *(Center for advanced therapies for chronic inflammatory diseases of the musculoskeletal system)*

Zodpovedný riešiteľ:	Jaroslav Katrlík
Trvanie projektu:	1.6.2020 / 1.6.2023
Evidenčné číslo projektu:	313011W410
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národný ústav reumatických chorôb
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	Výskumná agentúra: 77951 €

Dosiahnuté výsledky:

45.) Centrum pre biomedicínsky výskum – BIOMEDIRES - II. etapa *(Center for Biomedical Research - BIOMEDIRES - II. phase)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2020 / 1.6.2023
Evidenčné číslo projektu:	313010W428
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Medirex Group Academy, n.o.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VA: 39200 €

Dosiahnuté výsledky:

46.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom *(Long-term strategic research and development focused on the occurrence of Lynch syndrome in the Slovak population and possibilities of prevention of tumors associated with this syndrome)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2020 / 1.6.2023
Evidenčné číslo projektu:	313011V578
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	VA: 28230 €

Dosiahnuté výsledky:

47.) Štúdium štruktúrnych zmien komplexných glykokonjugátov v procese dedičných metabolických a civilizačných ochorení. *(Study of structural changes of complex glycoconjugates in the process of hereditary metabolic and civilization diseases.)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2020 / 30.6.2023
Evidenčné číslo projektu:	313021Y920
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VA: 366668 €

Dosiahnuté výsledky:

48.) Vývoj nanoštrukturovaných povlakov s inaktivačným účinkom na vírusy a baktérie pre rôzne typy flexibilných materiálov. *(Development of nanostructured coatings with inacticating effect on viruses and bacteria for various types of flexible materials.)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2021 / 30.6.2023
Evidenčné číslo projektu:	313011AUH4
Organizácia je koordinátorom projektu:	nie
Koordinátor:	STATON s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VA: 47881 €

Dosiahnuté výsledky:

49.) Vývoj produktov modifikáciou prírodných látok a štúdium ich multimodálnych účinkov na ochorenie COVID-19. *(Development of products by modification of natural substances and study of their mulimodal effects on COVID-19.)*

Zodpovedný riešiteľ:	Ján Mucha
Trvanie projektu:	1.1.2021 / 30.6.2023
Evidenčné číslo projektu:	313011ATT2
Organizácia je koordinátorom projektu:	nie
Koordinátor:	SITNO Pharma s.r.o.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VA: 42000 €

Dosiahnuté výsledky:

Programy: DoktoGranty

50.) Štúdium interakcií glykozyltransferáz a ich potenciálnych inhibítorov

Zodpovedný riešiteľ:	Filip Pančík
Trvanie projektu:	1.1.2022 / 31.12.2022
Evidenčné číslo projektu:	APP0273
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Chemický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 2000 €

Dosiahnuté výsledky:

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 AGUEDO, Juvissan - PAKANOVÁ, Zuzana - LORENCOVÁ, Lenka - NEMČOVIČ, Marek - KASAK, Peter - BARÁTH, Marek - FARKAŠ, Pavol - TKÁČ, Ján**. MXene as a novel cartridge for N-glycan enrichment. In Analytica Chimica Acta, 2022, vol. 1234, art. no. 340512. (2021: 6.911 - IF, Q1 - JCR, 1.105 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: https://doi.org/10.1016/j.aca.2022.340512

ADCA02 BERTÓKOVÁ, Anikó - KOŠÚTOVA, Natália - KOZICS, Katarína - GÁBELOVÁ, Alena - VIKARTOVSKÁ, Alica - JÁNÉ, Eduard - HÍREŠ, Michal - BERTÓK, Tomáš - TKÁČ, Ján**. Exosomes from prostate cancer cell lines: Isolation optimisation and characterisation. In Biomedicine & Pharmacotherapy, 2022, vol. 151, art. no 113093. (2021: 7.419 - IF, Q1 - JCR, 1.194 - SJR, Q1 - SJR). ISSN 0753-3322. Dostupné na: https://doi.org/10.1016/j.biopha.2022.113093

ADCA03 BETINOVA, Veronika - TOTH HERVAY, Nora - ELIAS, Daniel - HORVÁTHOVÁ, Ágnes - GBELSKA, Yvetta**. The UPC2 gene in Kluyveromyces lactis stress adaptation. In Folia Microbiologica, 2022, vol. 67, no. 4, p. 641-647. (2021: 2.629 - IF, Q3 - JCR, 0.465 - SJR, Q3 - SJR). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/s12223-022-00968-3

ADCA04 BLEHA, Roman** - TŘEŠŇÁKOVÁ, Lucie - SUSHYTSKYI, Leonid - CAPEK, Peter - ČOPÍKOVÁ, Jana - KLOUČEK, Pavel - JABLONSKÝ, Ivan - SYNYTSYA, Andriy**. Polysaccharides from Basidiocarps of the Polypore Fungus Ganoderma resinaceum: Isolation and Structure. In Polymers : Open Access Polymer Science Journal, 2022, vol. 14, art. no. 255, [18] p. (2021: 4.967 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR). ISSN 2073-4360. Dostupné na: https://doi.org/10.3390/polym14020255

ADCA05 BLŠÁKOVÁ, Anna - KVĚTOŇ, Filip - LORENCOVÁ, Lenka - BLIXT, Ola - VIKARTOVSKÁ, Alica - KASÁK, Peter** - TKÁČ, Ján**. Amplified suspension magnetic bead-based assay for sensitive detection of anti-glycan antibodies as potential cancer biomarkers. In Analytica Chimica Acta, 2022, vol. 1195, art. no. 339444, [9] p. (2021: 6.911 - IF, Q1 - JCR, 1.105 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: https://doi.org/10.1016/j.aca.2022.339444

ADCA06 BURYI, M.** - BABIN, V. - REMEŠ, Z. - MIČOVÁ, Júlia. Charge Trapping processes in hydrothermally grow Er-doped ZnO. In Radiation Measurements, 2022, vol. 150, art. no. 106700. (2021: 1.743 - IF, Q2 - JCR, 0.569 - SJR, Q2 - SJR). ISSN 1350-4487. Dostupné na: https://doi.org/10.1016/j.radmeas.2021.106700

ADCA07 BURYI, Maksym** - REMEŠ, Zdeněk - BABIN, Vladimír - ARTEMENKO, Anna - CHERTOPALOV, Sergii - MIČOVÁ, Júlia. Cold plasma treatment of ZnO:Er nano- and microrods: The effect on luminescence and defects creation. In Journal of Alloys and Compounds, 2022, vol. 895, art. no. 162671 [17] p. (2021: 6.371 - IF, Q1 - JCR, 1.027 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 0925-8388. Dostupné na: https://doi.org/10.1016/j.jallcom.2021.162671

ADCA08 BURYI, Maksym** - BABIN, Vladimir - ARTEMENKO, Anna - REMEŠ, Zdenek - DĚCKÁ, Kateřina - MIČOVÁ, Júlia. Hydrothermally grow ZnO: Mo nanorods exposed to X-ray : Luminescence and charge trapping phenomena. In Applied Surface Science, 2022, vol. 585, art. no. 152682. (2021: 7.392 - IF, Q1 - JCR, 1.147 - SJR, Q1 - SJR). ISSN 0169-4332. Dostupné na: https://doi.org/10.1016/j.apsusc.2022.152682

ADCA09 BURYI, Maksym - REMEŠ, Zdenek** - BABIN, Vladimír - CHERTOPALOV, Sergii - DĚCKÁ, Kateřina - DOMINEC, Filip - MIČOVÁ, Júlia - NEYKOVA, Neda**. Free-Standing ZnO:Mo Nanorods Exposed to Hydrogen or Oxygen Plasma: Influence on the Intrinsic and Extrinsic Defect States. In Materials, 2022, vol. 15, art. no. 2261, p. 1-18. (2021: 3.748 - IF, Q1 - JCR, 0.604 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15062261

ADCA10 CAPEK, Peter** - KOŠŤÁLOVÁ, Zuzana. Isolation, chemical chacterization and antioxidant activity of Prunus spinosa L. fruit phenolic polysaccharide-proteins. In Carbohydrate Research, 2022, vol. 515, art. no. 108547, [9] p. (2021: 2.975 - IF, Q2 - JCR, 0.439 - SJR, Q3 - SJR). ISSN 0008-6215. Dostupné na: https://doi.org/10.1016/j.carres.2022.108547

ADCA11 ČIERNA, Michaela - BERKEŠ, Dušan - BARAN, Peter - ŠORAL, Michal - KOLAROVIČ, Andrej** - JAKUBEC, Pavol. Stereochemical switch driven by crystallization: Interplay between stoichiometry and configuration of the products. In Chirality. - Hoboken : Wiley-Liss, 2022, vol. 34, p. 948 - 954. (2021: 2.183 - IF, Q3 - JCR, 0.397 - SJR, Q3 - SJR). ISSN 0899-0042. Dostupné na: https://doi.org/10.1002/chir.23451

ADCA12 HALAJ, Michal - MATULOVÁ, Mária - CAPEK, Peter**. Structural features of biologically active extracellular polysaccharide produced by green microalgae Dictyosphaerium chlorelloides. In International Journal of Biological Macromolecules, 2022, vol. 214, p. 152-161. (2021: 8.025 - IF, Q1 - JCR, 1.100 - SJR, Q1 - SJR). ISSN 0141-8130. Dostupné na: https://doi.org/10.1016/j.ijbiomac.2022.05.197

ADCA13 HÍREŠ, Michal - JÁNÉ, Eduard - KALAVSKÁ, Katarína - CHOVANEC, Michal - MEGO, Michal - KASÁK, Peter - BERTÓK, Tomáš - TKÁČ, Ján**. Glycan signatures for the identification of cisplatin-resistant testicular cancer cell lines: Specific glycoprofiling of human chorionic gonadotropin (hCG). In Cancer Medicine, 2022, vol. 11, no. 4, p. 968-982. (2021: 4.711 - IF, Q2 - JCR, 1.144 - SJR, Q1 - SJR). ISSN 2045-7634. Dostupné na: https://doi.org/10.1002/cam4.4515

ADCA14 HORVÁTHOVÁ, Ágnes - FARKAŠ, Vladimír**. Effect of N-acetyl chito-oligosaccharides on the biosynthesis and properties of chitin in Saccharomyces cerevisiae. In Folia Microbiologica, 2022, vol. 67, p. 285-289. (2021: 2.629 - IF, Q3 - JCR, 0.465 - SJR, Q3 - SJR). ISSN 0015-5632. Dostupné na: https://doi.org/10.1007/s12223-021-00933-6

ADCA15 HRABÁROVÁ, Eva - BELKOVA, Martina - KÖSZAGOVÁ, Romana - NAHÁLKA, Jozef**. Pull-Down Into Active Inclusion Bodies and Their Application in the Detection of (Poly)-Phosphates and Metal-Ions. In Frontiers in Bioengineering and Biotechnology, 2022, vol. 10, art. no. 833192. (2021: 6.064 - IF, Q1 - JCR, 0.925 - SJR, Q1 - SJR). ISSN 2296-4185. Dostupné na: https://doi.org/10.3389/fbioe.2022.833192

ADCA16 HRICOVÍNI, Michal - ASHER, James Richard - HRICOVÍNI, Miloš**. A study of the photochemical behaviour and relaxation mechanisms of anti-syn isomerisation around quinazolinone -N-N=bonds. In RSC Advances, 2022, vol. 12, no. 42, p. 27442-27452. (2021: 4.036 - IF, Q2 - JCR, 0.667 - SJR, Q1 - SJR). ISSN 2046-2069. Dostupné na: https://doi.org/10.1039/d2ra04529j

ADCA17 HRICOVÍNI, Miloš** - OWENS, Raymond J. - BAK, Andrzej - KOZIK, Violetta - MUSIAŁ, Witold - PIERATTELLI, Roberta - MÁJEKOVÁ, Magdaléna - RODRÍGUEZ, Yoel - MUSIOL, Robert - SLODEK, Aneta - ŠTARHA, Pavel - PIETAK, Karina - SLOTA, Dagmara - FLORKIEWICZ, Wioletta - SOBCZAK-KUPIEC, Agnieszka - JAMPILEK, Josef**. Chemistry towards Biology-Instruct: Snapshot. In International Journal of Molecular Sciences, 2022, vol. 23, no. 23, art. no. 14815. (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/ijms232314815 (VEGA č. 2/0071/22 : Syntéza, fyzikálno-chemické a biologické vlastnosti prekurzorov na báze glykokonjugátov, N-heterocyklov a derivátov polysacharidov ako potenciálnych antikarcinogénnych a antivirotických liečiv. Vega č. 2/0103/22 : Ligandom podmienená modulácia vápnikovej pumpy - štúdium mechanizmu a návrh nových látok. APVV-20-0543 : Viac-cieľový prístup k rôznorodým molekulovým mechanizmom diabetických komplikácií a iných ochorení súvisiacich s toxicitou glukózy. ITMS 26230120002 : Slovenská infraštruktúra pre vysokovýkonné počítanie – Regionálna konkurencieschopnosť a zamestnanosť. ITMS 26210120002 : Slovenská infraštruktúra pre vysokovýkonné počítanie - Konvergencia)

ADCA18 HRMOVA, Maria** - STRATILOVÁ, Barbora - STRATILOVÁ, Eva. Broad Specific Xyloglucan: Xyloglucosyl Transferases Are Formidable Players in the Re-Modelling of Plant Cell. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 1656. (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/ijms23031656

ADCA19 HURAN, Jozef** - BOHÁČEK, Pavol - SASINKOVÁ, Vlasta - KLEINOVÁ, Angela - MIKOLÁŠEK, Miroslav - KOBZEV, Aexander P. Amorphous silicon carbide thin films doped with P or B for the photoelectrochemical water splitting devices. In Current Applied Physics, 2022, vol. 34, p. 101-106. (2021: 2.856 - IF, Q2 - JCR, 0.521 - SJR, Q2 - SJR). ISSN 1567-1739. Dostupné na: https://doi.org/10.1016/j.cap.2021.11.014 (VEGA 2/0084/20)

ADCA20 KATRLÍK, Jaroslav** - HOLAZOVÁ, Alena - MEDOVARSKÁ, Izabela - SEILEROVÁ, Ivana - GEMEINER, Peter - BYSTRICKÝ, Slavomír. SPR biosensor chip based on mannan isolated from Candida dubliniensis yeasts applied in immunization effectiveness testing. In Sensors and Actuators: B Chemical, 2022, vol. 350, art. no. 130883, [8] p. (2021: 9.221 - IF, Q1 - JCR, 1.390 - SJR, Q1 - SJR). ISSN 0925-4005. Dostupné na: https://doi.org/10.1016/j.snb.2021.130883

ADCA21 KIM, Seong Cheol - KIM, Hyeon Jeong - PARK, Gi Eun - LEE, Chang Won - SYNYTSYA, Andriy - CAPEK, Peter - PARK, Zong IL**. Sulfated Glucuronorhamnoxylan from Capsosiphon fulvescens Ameliorates Osteoporotic Bone Resorption via Inhibition of Osteoclastic Cell Differentiation and Function In Vitro and In Vivo. In Marine Biotechnology, 2022, vol. 24, no. 4, p. 690-705. (2021: 3.727 - IF, Q1 - JCR, 0.636 - SJR, Q2 - SJR). ISSN 1436-2228. Dostupné na: https://doi.org/10.1007/s10126-022-10136-w

ADCA22 KÓŇA, Juraj** - ŠESTÁK, Sergej - WILSON, Iain B. H - POLÁKOVÁ, Monika**. 1,4-Dideoxy-1,4-imino- D- and L-lyxitol-based inhibitors bind to Golgi α-mannosidase II in different protonation forms. In Organic and Biomolecular Chemistry, 2022, vol. 20, no. 45, p. 8932-8943. (2021: 3.890 - IF, Q1 - JCR, 0.832 - SJR, Q1 - SJR). ISSN 1477-0520. Dostupné na: https://doi.org/10.1039/d2ob01545e

ADCA23 KREGIEL, Dorota** - NOWACKA, Maria - RYGALA, Anna - VADKERTIOVÁ, Renáta. Biological activity of pulcherrimin from the Meschnikowia pulcherrima clade. In Molecules, 2022, vol. 27, art. no. 1855, [14] p. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules27061855

ADCA24 MIČOVÁ, Júlia - REMES, Zdenek** - ARTEMENKO, Anna - BURYI, Maksym - LEBEDA, Miroslav - CHANG, Yu Ying. Plasma Treatment of Ga-Doped ZnO Nanorods. In Physica Status Solidi A : applications and materials science, 2022, vol. 219, no. 10, art. no. 2100663. (2021: 2.170 - IF, Q3 - JCR, 0.492 - SJR, Q2 - SJR). ISSN 1862-6300. Dostupné na: https://doi.org/10.1002/pssa.202100663

ADCA25 MIKULA, Edyta** - KATRLÍK, Jaroslav - RODRIGUES, Ligia R. Electrochemical Aptasensors for Parkinson's Disease Biomarkers Detection. In Current Medicinal Chemistry, 2022, vol. 29, p. 5795-5814. (2021: 4.740 - IF, Q2 - JCR, 0.800 - SJR, Q1 - SJR). ISSN 0929-8673. Dostupné na: https://doi.org/10.2174/0929867329666220520123337

ADCA26 MUKARRAM, Mohammad - PETRÍK, Peter - MUSHTAQ, Zeenat - KHAN, Mohammad Masroor Akhtar - GULFISHAN, Mohd - LUX, Alexander. Silicon nanoparticles in higher plants: Uptake, action, stress tolerance, and crosstalk with phytohormones, antioxidants, and other signalling molecules. In Environmental Pollution, 2022, vol. 310, art. no. 119855. (2021: 9.988 - IF, Q1 - JCR, 1.954 - SJR, Q1 - SJR). ISSN 0269-7491. Dostupné na: https://doi.org/10.1016/j.envpol.2022.119855

ADCA27 NOVAKOVA, Justina** - JÁNÉ, Eduard - SZOECS, Vojtech - JERIGOVA, Monika - VELIC, Dusan. Differentiating hydrous and anhydrous carbonaceous chondrites by secondary ion mass spectrometry. In Monatshefte für Chemie, 2022, vol. 153, p. 1057 - 1067. (2021: 1.613 - IF, Q4 - JCR, 0.273 - SJR, Q3 - SJR). ISSN 0026-9247. Dostupné na: https://doi.org/10.1007/s00706-022-02984-y

ADCA28 OSADSKÁ, Michaela* - SELICKÝ, Tomáš* - KRETOVÁ, Miroslava - JURČÍK, Ján - SIVÁKOVÁ, Barbara - ČIPÁKOVÁ, Ingrid** - ČIPÁK, Ľuboš**. The Interplay of Cohesin and RNA Processing Factors: The Impact of Their Alterations on Genome Stability. In International Journal of Molecular Sciences, 2022, vol. 23, no. 7, art. no. 3939. (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/ijms23073939 (VEGA 2/0039/19 : Funkčná analýza regulácie DEAH/RHA helikáz. VEGA 2/0021/22 : Detailná analýza a objasnenie funkcie Cka1 a Ksg1 proteínkináz využitím ich kondičných na ATP analógy citlivých mutantov)

ADCA29 PANČÍK, Filip** - PAKANOVÁ, Zuzana - MEČÁROVÁ, Jana - ČÍŽOVÁ, Alžbeta - BYSTRICKÝ, Slavomír - KOZMON, Stanislav - BARÁTH, Peter. Fragmentation analysis of O-specific polysaccharide from bacteria Vibrio cholerae O139 by MALDI-TOF and LC/ESI-MS/MS. In European Journal of Mass Spectrometry, 2022, vol. 28, no. 1-2, p. 47-55. (2021: 1.436 - IF, Q3 - JCR, 0.265 - SJR, Q3 - SJR). ISSN 1469-0667. Dostupné na: https://doi.org/10.1177/14690667221099119

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ADCA31 PAVLÍČKOVÁ, Michaela - LORENCOVÁ, Lenka - HATALA, Michal - KOVÁČ, Miroslav - TKÁČ, Ján - GEMEINER, Pavol**. Facile fabrication of screen-printed MoS2 electrodes for electrochemical sensing of dopamine. In Scientific Reports, 2022, vol. 12, art. no. 11900. (2021: 4.997 - IF, Q2 - JCR, 1.005 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-022-16187-2 (VEGA 1/0602/19 : Príprava a štúdium polymérnych gélov s využitím v ochrane kultúrneho dedičstva. VEGA 1/0488/19 : Tlačené funkčné vrstvy pre hybridné perovskitové solárne články. APVV 17–0300 : Glykánové bionanosenzory and bioanalytické zariadenia – ich konštrukcia, validácia a aplikácia v diagnostike rakoviny)

ADCA32 PINKOVÁ GAJDOŠOVÁ, Veronika* - LORENCOVA, Lenka* - KASAK, Peter - JERIGOVA, Monika - VELIC, Dusan - OROVCIK, Lubomir - BARÁTH, Marek -

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ADMB01 BURYI, M. - RIDZOŇOVÁ, K. - ARTEMENKO, A. - DĚCKÁ, K. - LANDOVÁ, L. - REMEŠ, Z. - MIČOVÁ, Júlia. Charge traps in Zn- and Mo- based oxide microstructures. The role of Mo. In Journal of Physics: Conference Series, 2022, vol. 2413, art. no. 012007. (2021: 0.210 - SJR). ISSN 1742-6588. Dostupné na: https://doi.org/10.1088/1742-6596/2413/1/012007 (Development of Materials Science in Research and Education)

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AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

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AFC01 BAJUS, Marko - LABANCOVÁ, Eva - HAČKULIČOVÁ, Diana - KUČEROVÁ, Danica, Richterová - ŠÍPOŠOVÁ, Kristína - VIVODOVÁ, Zuzana - KOLLÁROVÁ, Karin. Vplyv kremíka a antimónu na fyziologické parametre fazule mungo (Vigna Radiata (L.) Wilczek) = Influence of silicon and antimony on the physiological parameters of mungo bean (Vigna Radiata (L.) Wilczek). In Vliv abiotických a biotických stresorů na vlastnosti rostlin 2022. Proceedings of scientific articles. 1. vyd. - Praha ; Zvolen : Česká zemědělská univerzita v Praze : Ústav ekológie lesa Slovenskej akadémie vied v. v. i., 2022, s. 114-116. ISBN 978-80-89408-36-8. (Vliv abiotických a biotických stresoru na vlastnosti rostlin 2022. Vliv abiotických a biotických stresorů na vlastnosti rostlin 2022 : Konference)

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https://doi.org/10.3390/molecules26227026., Registrované v: SCOPUS

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

ADMB01 BIELY, Peter - KREMNICKÝ, Ľubomir - ALFÖLDY, Juraj - TENKANEN, Maija. Stereochemistry of the hydrolysis of glycosidic linkage by endo-β-1,4-xylanases of Trichoderma reesei. In FEBS Letters, 1994, vol. 356, no. 1, p. 137-140. ISSN 1873-3468. Dostupné na: https://doi.org/10.1016/0014-5793(94)01248-2

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2. [1.1] PEDERSEN, Ninfa Rangel - TOVBORG, Morten - FARJAM, Abdoreza Soleimani - DELLA PIA, Eduardo Antonio. Multicomponent carbohydrase system from Trichoderma reesei: A toolbox to address complexity of cell walls of plant substrates in animal feed. In PLOS ONE, 2021, vol. 16, no. 6, pp. ISSN 1932-6203. Dostupné na: https://doi.org/10.1371/journal.pone.0251556., Registrované v: WOS

ADMB02 DAMBORSKÝ, Pavel - DAMBORSKÁ, Dominika - BELICKÝ, Štefan - TKÁČ, Ján - KATRLÍK, Jaroslav**. Sweet strategies in prostate cancer biomarker research: Focus on a prostate specific antigen. In BioNanoScience, 2018, vol. 8, p. 690-700. (2017: 0.308 - SJR, Q3 - SJR). ISSN 2191-1630. Dostupné na: https://doi.org/10.1007/s12668-017-0397-z

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2. [1.1] CAVADA, B.S. - OLIVEIRA, M.V. - OSTERNE, V.J.S. - PINTO, V.R. - CORREIA-NETO, C. - NASCIMENTO, K.S. Lectins applied to diagnosis and treatment of prostate cancer and benign hyperplasia: A review. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, NOV 1 2021, vol. 190, p. 543-553., Registrované v: WOS

3. [1.1] HARVEY, David J. . Analysis of carbohydrates and glycoconjugates by matrix-assisted laser desorption/ionization mass spectrometry: An update for 2017-2018. In MASS SPECTROMETRY REVIEWS, 2021, vol., no., pp. ISSN 0277-7037. Dostupné na: https://doi.org/10.1002/mas.21721., Registrované v: WOS

4. [1.2] DOROTHY, R. - KARTHIGA, N. - KUMARAN, S. Senthil - RATHISH, R. Joseph - RAJENDRAN, Susai - SINGH, Gurmeet. Nanoparticle-physiological media interactions. In Nanotoxicity: Prevention and Antibacterial Applications of Nanomaterials, 2020-01-01, pp. 3-20. Dostupné na: https://doi.org/10.1016/B978-0-12-819943-5.00001-4., Registrované v: SCOPUS

ADMB03 KLEINOVÁ, Angela - HURAN, Jozef - SASINKOVÁ, Vlasta - PERNÝ, M. - ŠÁLY, V. - PACKA, J. FTIR spectroscopy of silicon carbide thin films prepared by PECVD technology for solar cell application. In Proceedings of the SPIE, 2015, vol.

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Citácie:

1. [1.1] FILATOV, Y.D. - SIDORKO, V.I. - KOVALEV, S.V. - KOVALEV, V.A. Effect of the Processed Material Structure on the Polishing Quality of Optical Surfaces. In JOURNAL OF SUPERHARD MATERIALS. ISSN 1063-4576, NOV 2021, vol. 43, no. 6, p. 435-443., Registrované v: WOS

2. [1.1] TRUONG, T.B. - CHEN, Y.R. - LIN, G.Y. - LIN, H-T - WU, Y.S. - YANG, C.C. Lithium polyacrylate polymer coating enhances the performance of graphite/silicon/carbon composite anodes. In ELECTROCHIMICA ACTA. ISSN 0013-4686, JAN 1 2021, vol. 365., Registrované v: WOS

3. [1.1] WANG, Zhao - SCHMALBACH, Kevin M. - PENN, R. Lee - POERSCHKE, David - ANTONIOU, Antonia - MARA, Nathan A. - STEIN, Andreas. 3D Periodic and Interpenetrating Tungsten-Silicon Oxycarbide Nanocomposites Designed for Mechanical Robustness. In ACS APPLIED MATERIALS & INTERFACES. ISSN 1944-8244, 2021, vol. 13, no. 27, pp. 32126-32135. Dostupné na: https://doi.org/10.1021/acsami.1c06894., Registrované v: WOS

ADMB04 KOH, Sangho - IMAMURA, Seika - FUJINO, Naoto - MIZUNO, Masahiro** - SATO, Nobuaki - MAKISHIMA, Satoshi - BIELY, Peter - AMANO, Yoshihiko. Characterization of acetylxylan esterase from white-rot fungus Irpex lacteus. In Journal of Applied Glycoscience, 2019, vol. 66, p. 131-137. ISSN 1880-7291. Dostupné na: https://doi.org/10.5458/jag.jag.JAG-2019_0007

Citácie:

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ADMB05 KOLLÁROVÁ, Karin - ZELKO, Ivan - HENSELOVÁ, Mária - CAPEK, Peter - LIŠKOVÁ, Desana. Growth and anatomical parameters of adventitious roots formed on mung bean hypocotyls are correlated with galactoglucomannan oligosaccharides structure. In The Scientific World Journal, 2012, vol. 2012, article ID 797815, p. 7. (2011: 0.515 - SJR, Q2 - SJR). ISSN 1537-744X. Dostupné na: https://doi.org/10.1100/2012/797815

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ADMB07 SALAR, Raj Kumar - ČERTÍK, Milan - BREZOVÁ, Vlasta - BRLEJOVÁ, Marta - HANUSOVÁ, Vladimíra - BREIEROVÁ, Emília. Stress influenced increase in phenolic content and radical scavening capacity of Rhodotorula glutinis CCY 20-2-26. In 3Biotech, 2013, vol. 3, p. 53-60. ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-012-0069-1

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ADMB08 SASINKOVÁ, Vlasta - HURAN, Jozef - KLEINOVÁ, Angela - BOHÁČEK, Pavol - ARBET, Juraj - SEKÁČOVÁ, Mária. Raman spectroscopy study of SiC thin films prepared by PECVD for solar cell working in hard environment. In Proceedings of the SPIE, 2015, vol. 9563, 95630V. (2014: 0.237 - SJR). (2015 - SCOPUS, WOS). ISSN 0277-786X. Dostupné na: https://doi.org/10.1117/12.2186749

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1. [1.1] DE OBALDIA, Elida I. - ALCANTAR-PENA, Jesus J. - WITTEL, Frederick P. - VEYAN, Jean Francois - GALLARDO-HERNADEZ, Salvador - KOUDRIAVTSEV, Yury - BERMAN-MENDOZA, Dainet - AUCIELLO, Orlando. Study of Atomic Hydrogen Concentration in Grain Boundaries of Polycrystalline Diamond Thin Films. In APPLIED SCIENCES-BASEL, 2021, vol. 11, no. 9, pp. Dostupné na: https://doi.org/10.3390/app11093990., Registrované v: WOS

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

ADNA01 LEKKA, Dimitra Evanthia - BRUCKNEROVÁ, Jana - ŠALINGOVÁ, Anna - ŠEBOVÁ, Klaudia - OSTROŽLÍKOVÁ, Mária - ZIBUROVÁ, Jana - NEMČOVIČ, Marek - ŠESTÁK, Sergej - BELLOVÁ, Jana - PAKANOVÁ, Zuzana - SIVÁKOVÁ, Barbara - SKOKŇOVÁ, Martina - BZDÚCH, Vladimír - MUCHA, Ján - BARÁTH, Peter - BRUCKNEROVÁ, Ingrid**. Congenital disorders of glycosylation – an umbrella term for rapidly expanding group of rare genetic metabolic disorders – importance of physical investigation. In Bratislava Medical Journal, 2021, vol. 122, no. 3, p. 190-195. (2020: 1.278 - IF, Q3 - JCR, 0.387 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2021_030

Citácie:
1. [1.1] PAJUSALU, Sander - VALS, Mari-Anne - MIHKLA, Laura - SAMARINA, Ustina - KAHRE, Tiina - OUNAP, Katrin. The Estimated Prevalence of N-Linked Congenital Disorders of Glycosylation Across Various Populations Based on Allele Frequencies in General Population Databases. In FRONTIERS IN GENETICS, 2021, vol. 12, no., pp. Dostupné na: https://doi.org/10.3389/fgene.2021.719437., Registrované v: WOS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNB01 KÖSZAGOVÁ, Romana** - NAHÁLKA, Jozef. Inclusion bodies in biotechnology. In Journal of Microbiology, Biotechnology and Food Sciences, 2020, vol. 9, p. 1191-1196. (2019: 0.163 - SJR, Q4 - SJR). (2020 - WOS, SCOPUS). ISSN 1338-5178. Dostupné na: https://doi.org/10.15414/jmbfs.2020.9.6.1191-1196

Citácie:
1. [1.1] BHATWA, Arshpreet - WANG, Weijun - HASSAN, Yousef I. - ABRAHAM, Nadine - LI, Xiu-Zhen - ZHOU, Ting. Challenges Associated With the Formation of Recombinant Protein Inclusion Bodies in Escherichia coli and Strategies to Address Them for Industrial Applications. In FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY. ISSN 2296-4185, 2021, vol. 9, no., pp. Dostupné na: https://doi.org/10.3389/fbioe.2021.630551., Registrované v: WOS
2. [1.1] OLCUCU, Gizem - KLAUS, Oliver - JAEGER, Karl-Erich - DREPPER, Thomas - KRAUSS, Ulrich. Emerging Solutions for in Vivo Biocatalyst Immobilization: Tailor-Made Catalysts for Industrial Biocatalysis. In ACS SUSTAINABLE CHEMISTRY & ENGINEERING. ISSN 2168-0485, 2021, vol. 9, no. 27, pp. 8919-8945. Dostupné na: https://doi.org/10.1021/acssuschemeng.1c02045., Registrované v: WOS

ADNB02 MUDRONČEKOVÁ, Silvia - MAZÁŇ, Marián - NEMČOVIČ, Marek - ŠALAMON, Ivan. Entomopathogenic fungus species beauveria bassiana (BALS.) and metarhizium anisopliae (METSCH.) used as mycoinsecticide effective in biological control of IPS typographus (L.). In Journal of Microbiology, Biotechnology and Food Sciences, 2013, vol. 2, p. 2469-2472. ISSN 1338-5178.

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1. [1.1] HYBLEROVA, Silvia - MEDO, Juraj - BARTA, Marek. Diversity and prevalence of entomopathogenic fungi (Ascomycota, Hypocreales) in epidemic populations of bark beetles (Coleoptera, Scolytinae) in spruce forests of the Tatra National Park in Slovakia. In ANNALS OF FOREST RESEARCH, 2021, vol. 64, no. 1, pp. 129-145. ISSN 1844-8135. Dostupné na: https://doi.org/10.15287/afr.2021.2152., Registrované v: WOS
2. [1.1] MILOSAVLJEVIC, M. - TOSIC, M.T. - RADULOVIC, Z. - MARKOVIC, M. - RINDOS, M. Isolation, identification and phylogenetic position of entomopathogenic fungus Beauveria bassiana from Ips typographus in Serbia. In FRESENIUS ENVIRONMENTAL BULLETIN. ISSN 1018-4619, 2021, vol. 30, no. 7A, p. 9443-9448., Registrované v: WOS
3. [1.1] TAKOV, D. - PILARSKA, D. - LINDE, A. - BARTA, M. Infectious and parasitic diseases of phytophagous insect pests in the context of extreme environmental conditions. In CENTRAL EUROPEAN FORESTRY JOURNAL. ISSN 2454-034X, JUN 2021, vol. 67, no. 2, p. 72-84. Dostupné na: https://doi.org/10.2478/forj-2020-0018., Registrované v: WOS

ADNB03 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTÉS,

Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation byoxidative system ascorbate plus cupric chloride. In Interdisciplinary toxicology, 2010, vol. 3, no. 1, p. 26-34. (2009: 0.456 - SJR, Q3 - SJR). ISSN 1337-6853. Dostupné na: https://doi.org/10.2478/v10102-010-0001-7

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1. [1.1] WIDODO, A. - YASWARI, Y. - MARIYANA, R. - ARIF, A.F. - PRAKOSO, T. - ADHI, T.P. - SOERAWIDJAJA, T.H. - PURWADI, R. - INDARTO, A. The promising performance of manganese gluconate as a liquid redox sulfur recovery agent against oxidative degradation. In HELIYON. APR 2021, vol. 7, no. 4., Registrované v: WOS

AFL Postery z domácich konferencií

AFL01 DOVINOVÁ, Ima - HRABÁROVÁ, Eva - JANSEN, Eugene - BARANČÍK, Miroslav - KVANDOVÁ, Miroslava - MAJZÚNOVÁ, Miroslava - BERÉNYIOVÁ, Andrea - ČAČÁNYIOVÁ, Soňa. ADMA, homocysteine and redox status improvement affected by 7-nitroindazole in spontaneously hypertensive rats. In Nitric Oxide: From Basic Regulations to Lifestyle-Related Diseases 2018 : proceedings of the 10th International Symposium, Smolenice Castle, Slovakia, 3-5 September 2018. - Bratislava : Centre of Experimental Medicine SAS, p. 31-32. ISBN 978-80-89991-01-3. (APVV-15-0565 : Nové regulačné účinky oxidu dusnatého a ich úloha v rozvoji esenciálnej hypertezie. VEGA č. 2/0148/17 : Sledovanie kritických endogénnych biomarkerov a signálnych dráh v hypertenzii a pri kardiovaskulárnych ochoreniach. VEGA č. 2/0058/17 : Enzymatická produkcia ekonomicky významných oligosacharidov a opiátov. International Symposium Nitric Oxide: From Basic Regulations To Lifestyle-Related Diseases 2018)

Citácie:

1. [1.1] FAN, Ying - GAO, Qiang - GUAN, Jia-Xin - LIU, Lei - HONG, Ming - JUN, Li - WANG, Li - DING, Hai-Feng - JIANG, Li-Hong - HOU, Bo-Yu - LI, Mei - SONG, Zhi-Qiang - SUN, De-Qin - YAN, Chao-Qi - MA, Lan. DDAH2 (-449 G/C) G allele is positively associated with leukoaraiosis in northeastern China: a double-blind, intergroup comparison, case-control study. In NEURAL REGENERATION RESEARCH, 2021, vol. 16, no. 8, pp. 1592-1597. ISSN 1673-5374. Dostupné na: https://doi.org/10.4103/1673-5374.303037., Registrované v: WOS

2. [1.2] LIU, Nan - GUO, Yu Na - GONG, Li Kun - WANG, Bing Shun. Advances in biomarker development and potential application for preeclampsia based on pathogenesis. In European Journal of Obstetrics and Gynecology and Reproductive Biology: X, 2021-01-01, 9, pp. Dostupné na: https://doi.org/10.1016/j.eurox.2020.100119., Registrované v: SCOPUS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Peter Gabko, MSci.
Názov semestr. predmetu: Technická angličtina I - chemické názvoslovie
Počet hodín za semester: 1
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie jazykov

doc. Ing. Ladislav Petruš, DrSc.
Názov semestr. predmetu: Chémia prírodných látok
Počet hodín za semester: 6
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra organickej chémie Prírodovedeckej fakulty UK

Semestrálne cvičenia:

MSc. Marko Bajus
Názov semestr. predmetu: Biológia bunky
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

MSc. Marko Bajus
Názov semestr. predmetu: Fyziológia rastlín
Počet hodín za semester: 36
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

MSc. Marko Bajus
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín (1)
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

MSc. Marko Bajus
Názov semestr. predmetu: Základy fyziológie rastlín
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Ing. Matej Cvečko
Názov semestr. predmetu: Laboratórne cvičenie z organickej chémie
Počet hodín za semester: 25
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav organickej chémie, katalýzy a petrochémie

Peter Gabko, MSci.
Názov semestr. predmetu: Laboratórne cvičenie z organickej chémie I
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie

Peter Gabko, MSci.
Názov semestr. predmetu: Laboratórne cvičenie z organickej chémie II
Počet hodín za semester: 60
Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie organickej chémie

Mgr. Diana Hačkuličová
Názov semestr. predmetu: Biológia bunky
Počet hodín za semester: 48
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Mgr. Diana Hačkuličová
Názov semestr. predmetu: Fyziológia rastlín
Počet hodín za semester: 72
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Ing. Peter Haluz
Názov semestr. predmetu: Laboratórne cvičenia zo základov biochémie (pre 2. roč. Bc. štúdia)
Počet hodín za semester: 52
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav biochémie a mikrobiológie

Ing. Filip Pančík
Názov semestr. predmetu: Laboratórna technika
Počet hodín za semester: 65
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra fyzikálnej a teoretickej chémie

Ing. Veronika Vráblová
Názov semestr. predmetu: Laboratórne cvičenie z bioanalytických metód
Počet hodín za semester: 45
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Biotechnológie

Semináre:

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Dizertačná práca 2
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Dizertačná práca 3
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Dizertačná práca 4
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.

Názov semestr. predmetu: Dizertačná práca 5
Počet hodín za semester: 26
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín (1)
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Signálne a regulačné molekuly v rastlinných bunkách
Počet hodín za semester: 6
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

RNDr. Karin Kollárová, PhD.
Názov semestr. predmetu: Špeciálny seminár k diplomovej práci 2
Počet hodín za semester: 16
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Mgr. Eva Labancová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín (1)
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fyziológia rastlín

Mgr. Kristína Šípošová, PhD.
Názov semestr. predmetu: Seminár k bakalárskej práci z fyziológie rastlín (1)
Počet hodín za semester: 39
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Fyziológia rastlín

Mgr. Zuzana Vivodová, PhD.
Názov semestr. predmetu: Dizertačná práca 8
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra botaniky

Mgr. Zuzana Vivodová, PhD.
Názov semestr. predmetu: Signálne a regulačné molekuly v rastlinných bunkách
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Terénne cvičenia:

Individuálne prednášky:

MSc. Marko Bajus
Názov semestr. predmetu: Kultivácia a ochrana rastlín
Počet hodín za semester: 3
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra fyziológie rastlín

Mgr. Peter Baráth, PhD.
Názov semestr. predmetu: Genomika / Proteomika

Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Ágnes Horváthová, PhD.
Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Prírodovedecká fakulta

MVDr. Jana Pipiková, PhD.
Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Prírodovedecká fakulta

Ing. Renáta Vadkertiová, PhD.
Názov semestr. predmetu: Kvasinky a kvasinkovité mikroorganizmy - ich výskyt, vlastnosti a úschova (predmet: Seminár z mikrobiológie, 3. roč. Bc. štúdia)
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Príloha E

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
Česko			Júlia Mičová	17	Anna Blšáková	4
					Peter Haluz	3
					Kristína Kianičková	4
					Lucia Pažitná	1
					Katarína Šuchová	1
Nemecko					Andrej Chyba	3
Portugalsko					Kristína Kianičková	39
					Peter Kis	365
Rakúsko					Jaroslav Katrlík	2
					Paras Harendra Kundalia	14
					Barbara Siváková	10
					Vladimír Sládek	6
Srbsko					Jaroslav Katrlík	8
					Kristína Kianičková	8
					Lucia Pažitná	8
Španielsko					Barbara Siváková	6
Turecko					Maroš Krchňák	7
					Filip Pančík	7
Počet vyslaní spolu			**1**	**17**	**18**	**496**

(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

Mexiko					Juan Carlos Contreras Esquivel	154
Poľsko					Anna Bzducha-Wróbel	31
Srbsko					Dr. Dragana Robajac	8
					Dr. Olgica Nedić	8
					Dr. Zorana Dobrijević	8
Španielsko					Cristiano Conceicao	35
Počet prijatí spolu					**6**	**244**

(C) Účasť pracovníkov pracoviska na konferenciách v zahraničí (nezahrnutých v "A"):

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Austrália	4th Australasian Glycoscience Symposium and 9th Wa	Jaroslav Katrlík	12
Česko	COST Action CA18229	Katarína Šuchová	2
	H2020 synBIOcarb	Juvissan Medalith Aguedo Ariza	7
		Jaroslav Katrlík	5
		Paras Harendra Kundalia	7
	Praktické otázky sbírek kultur mikrooganismu	Ágnes Horváthová	3
		Jana Pipiková	3
	The Biomania student scientific	Štefánia Hrončeková	3
	Veletrh vědy 2022	Alena Holazová	4
		Filip Květoň	4
		Lenka Lorencová	4
Grécko	MC COST CA18101	Zuzana Košťálová	4
Holandsko	Instruct-ERIC	Miloš Hricovíni	2
		Miloš Hricovíni	2
Maďarsko	COST Action CA18132	Jaroslav Katrlík	4
Nórsko	14th Carbohydrate Bioengineering meeting	Katarína Šuchová	4
Poľsko	22nd Central European NMR Meeting	Miloš Hricovíni	2
Švajčiarsko	Workshop INNOGLY	Matej Cvečko	5
		Michal Hricovíni	4
		Jaroslav Katrlík	6
		Kristína Kianičková	5
		Vladimír Mastihuba	4

Taliansko	COST Action CA18229	Peter Biely	5
		Katarína Šuchová	5
Spolu	**13**	**24**	**106**

Vysvetlivky: MAD - medziakademické dohody, KD - kultúrne dohody, VTS - vedecko-technická spolupráca v rámci vládnych dohôd

Skratky použité v tabuľke C:

14th Carbohydrate Bioengineering meeting - Vedecká konferencia - 14th Carbohydrate Bioengineering meeting
22nd Central European NMR Meeting - 22nd Central European NMR Meeting, Varšava
4th Australasian Glycoscience Symposium and 9th Wa - 4th Australasian Glycoscience Symposium and 9th Warren Workshop for Glycoanalytics
COST Action CA18132 - Management Committee meeting and Work group meeting COST Action CA18132
COST Action CA18229 - Míting projektu COST Action CA18229
H2020 synBIOcarb - Míting projektu H2020 synBIOcarb
Instruct-ERIC - Instruct-ERIC Structural Biology Biennial Conference, Instruct managers meeting
Instruct-ERIC - Instruct- ERIC Council meeting
MC COST CA18101 - Účast na MC COST Action CA18101
Praktické otázky sbírek kultur mikrooganismu - Praktické otázky sbírek kultur mikrooganismu 2022, Praha
The Biomania student scientific - The Biomania student scientific meeting 2022
Veletrh vědy 2022 - Veletrh vědy 2022 Praha
Workshop INNOGLY - Innogly Annual Meeting 2022

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MSc. Marko Bajus		PB	Odborná prednáška - poznávanie nahosemenných drevín	Gymnázium, Grösslingová 18, Bratislava	27.10.2022
MSc. Marko Bajus		iné	Použitie a význam explantátových kultúr, „Fascinovaní svetom rastlín“	Prírodovedecká fakulta UK v Bratislave	31.5.2022
Mgr. Jana Blahutová, PhD.	autor článku-Stanislava Longauerová	TL	Týždeň vedy a techniky otvoril dvere ústavov	Akadémia 6/2022, str.18	2022
Ing. Pavol Farkaš, PhD.	Ing. Filip Květoň, PhD., RNDr. Lenka Lorencová, PhD., RNDr. Alena Holazová, PhD., Chemický ústav SAV, v. v. i.	IN	Letná škola mladých vedcov	https://www.sav.sk/index.php?lang=sk&doc=services-news&source_no=20&news_no=10498	18.7.2022
Ing. Pavol Farkaš, PhD.	Ing. Filip Květoň, PhD., RNDr. Lenka Lorencová, PhD., RNDr. Alena Holazová, PhD., Chemický ústav SAV, v. v. i.	IN	Letná škola mladých vedcov	https://www.all4science.sk/letna-skola-mladych-vedcov-2022/	18.7.2022
Ing. Pavol Farkaš, PhD.	Ing. Miroslav Ferko, PhD, Ústav pre výskum srdca CEM SAV v.v.i.	IN	Interaktívna konferencia mladých vedcov 2022	https://www.quark.sk/interaktivna-konferencia-mladych-vedcov-2022/	20.5.2022
Ing. Pavol Farkaš, PhD.	Ing. Miroslav Ferko, PhD., Ústav pre výskum srdca CEM SAV v.v.i., Ing. Martin Nosko, PhD., Ústav materiálov a mechaniky strojov SAV v.v.i. Doc. PaedDr. Vladimíra Kurincová	IN	Štátny tajomník Ľ. Paulis: Kritické myslenie a tvorivosť žiakov podporujeme v spolupráci so SAV aj vďaka systémovému programu	https://www.minedu.sk/statny-tajomnik-l-paulis-kriticke-myslenie-a-tvorivost-ziakov-podporujeme-v-spolupraci-so-sav-aj-vdaka-systemovemu-programu/	7.6.2022

	Čavojová, PhD., Ústav experimentálnej psychológie CSPV SAV v.v.i. Ing. Alena Opálková Šišková, PhD., Ústav polymérov SAV v.v.i.				
Ing. Pavol Farkaš, PhD.	Miroslav Ferko, ÚVS CEM SAV, v. v. i.	IN	Interaktívna konferencia mladých vedcov 2022	https://websrv.saske.sk/uef/interaktivna-konferencia-mladych-vedcov-2022/	20.5.2022
Mgr. Diana Hačkuličová		iné	Tvorba vlastného rastlinného mini terária, „Fascinovaní svetom rastlín“	Prírodovedecká fakulta UK v Bratislave	31.5.2022
RNDr. Alena Holazová, PhD.	Alena Holazová, Natália Košútová, Lenka Lorencová, Pavol Farkaš	iné	13. 10. 2022 - akcia „Pivo s predsedníctvom“	areál SAV, Dúbravská cesta 9	13.10.2022
RNDr. Alena Holazová, PhD.	Pavol Farkaš, Alena Holazová, Filip Květoň, Lenka Lorencová	iné	Letná škola mladých vedcov - Chémia z domácej kuchyne (18. 07. 2022 - 22. 07. 2022)	Chemický Ústav SAV - Bratislava	18.7.2022
Ing. Štefánia Hrončeková, PhD.		PB	pozvaná prednáška na odbornom seminári „Elektrochemické (bio)senzory pre analytické a biomedicínske aplikácie“	FCHPT STU, prednášková miestnosť CH16, Radlinského 9, 812 37 Bratislava	8.11.2022
Ing. Kristína Kianičková		TL	Diagnostika pomocou cukrov	Quark	2022
RNDr. Karin Kollárová, PhD.		PB	Odborná prednáška - Význam a zaujímavosti verejných parkov a záhrad v Bratislave	Gymnázium Grösslingová 18, Bratislava	27.10.2022
Ing. Natália Košútová	Alena Holazová, Lenka Lorencová, Pavol Farkaš	iné	Pivo s predsedníctvom	Slovenská akadémia vied, Bratislava	13.10.2022
Ing. Filip Květoň, PhD.		TV	Letná škola mladých chemikov - motivačné pokusy	Teleráno - tv, internet	22.7.2022
Ing. Filip Květoň, PhD.		PB	Sladká diagnostika - Vedatour	Vedatour v KC Dunaj, Bratislava	13.9.2022
Ing. Filip Květoň, PhD.	Zuzana Vítková	IN	Snehové vločky, škorica či veštenie z olova. Vedci vysvetľujú vianočné	denník N	20.12.2022

			pojmy a tradície pomocou chémie		
Mgr. Eva Labancová, PhD.		iné	Hravé spoznávanie rastlín, „Fascinovaní svetom rastlín“	Prírodovedecká fakulta UK v Bratislave	31.5.2022
Mgr. Maroš Laho, PhD.		PB	Patogenéza moru včelieho plodu: Ako Paenibacillus larvae zabíja včelie larvy?	https://z-upload.facebook.com/vcelari.sk/posts/1148031709253433	7.10.2022
RNDr. Lenka Lorencová, PhD.	Alena Holazová, Filip Květoň, Pavol Farkaš	iné	Letná škola mladých vedcov – "Chémia z domácej kuchyne" / júl 2022 (18. 07. - 22. 07. 2022)	Chemický Ústav SAV	18.7.2022
RNDr. Lenka Lorencová, PhD.	Anna Blšáková, Štefánia Hrončeková	EX	Exkurzia pre študentov VŠ (2. a 3. ročník PriF UK) / február 2022 (09. 02. - 10. 02. 2022)	Laboratórium 19a, Chemický ústav SAV	9.2.2022
RNDr. Lenka Lorencová, PhD.	Filip Květoň	EX	“Kuchynské chémia“ - zábavné pokusy pre deti (Letný vedecký tábor platformy George Science)	Laboratórium 19a, Chemický ústav SAV	11.7.2022
RNDr. Lenka Lorencová, PhD.	Marek Baráth, Jana Blahutová, Jaroslav Katrlík, Foto: © M. Bučko, Stanislav Kozmon	TL	"Dni keď všetko chutí sladšie alebo postrehy z 15BSS"	ChemZi	2022
prof. RNDr. Alexander Lux, CSc.		PB	O rastlinách Brazílie veselo aj smutne	Prirodovedecká fakulta UK	23.3.2022
Mgr. Kristína Šípošová, PhD.		iné	Hravé spoznávanie rastlín, „Fascinovaní svetom rastlín“	Prírodovedecká fakulta UK v Bratislave	31.5.2022
Mgr. Jana Blahutová, PhD.		IN	Online Týždeň otvorených dverí na SAV	http://tod.sav.sk	1
Mgr. Jana Blahutová, PhD.	M. Híreš, E. Jáné, A. Blšáková, A. Horváthová, I. Uhliariková, M. Hricovíni, K. Kollárová, Z. Vivodová, D. Hačkuličová, M. Bajus, Š. Hrončeková, M. Bučko, M. Bella, P. Gabko, F. Květoň, L. Pažitná, N. Košútová, V. Vráblová. M. Cvečko, M. Krchňák, T.	EX	Deň otvorených dverí na Chemickom ústave SAV, v.v.i.	https://tyzdenvedy.sk/podujatia/den-otvorenych-dveri-na-chemickom-ustave-sav-v-v-i/	1

	Klunda				
Ing. Filip Květoň, PhD.	Filip Pančík	IN	spravovanie fb stránky ChÚ SAV	sociálne médiá - https://www.facebook.com/profile.php?id=100068456793255	36
Ing. Filip Květoň, PhD.	Lenka Lorencová, Alena Holazová, Pavol Farkaš	iné	Letná škola mladých vedcov SAV	areál SAV Patrónka, Chemický ústav - sociálne médiá, tv, tlač	1
Mgr. Maroš Laho, PhD.		TL	Paenibacillus larvae – pôvodca moru včelieho plodu: Úvod (1)	včelársky časopis Dymák	1
Mgr. Maroš Laho, PhD.	RNDr. Jaroslav Klaudíny, PhD.	TL	P. larvae - Pôvodca MVP: Genotypy, Epidemiológia, Virulencia (2)	včelársky časopis Dymák	1
Ing. Filip Pančík	Ing. Filip Květoň, PhD.	IN	Administratíva Facebookovej stránky Chemického ústavu SAV	sociálne médiá	36

[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*