Ústav zoológie Slovenskej akadémie vied, v. v. i.

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

Bratislava
jún 2023

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Správa o činnosti organizácie SAV za rok 2022

1. Základné údaje o verejnej výskumnej inštitúcii

Názov:	Ústav zoológie Slovenskej akadémie vied, v. v. i.
Riaditeľ:	RNDr. Dušan Žitňan, DrSc.
1. zástupca riaditeľa:	Ing. Ladislav Roller, PhD.
2. zástupca riaditeľa:	Mgr. Martina Gáliková, PhD.
Adresa:	Dúbravská cesta 9, 845 06 Bratislava
Tel.:	02/5930 2602
E-mail:	jana.kusnirova@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky:	nie sú
Detašované pracoviská:	Terénna výskumná stanica v Gabčíkove, Gabčíkovo 1315

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky:	nie sú
Detašované pracoviská:	Terénna výskumná stanica v Gabčíkove, vedúci nie je zadaný

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

Slovenská akadémia vied vydala dňa 15.11.2021 zakladaciu listinu č. 06174/2021 podľa § 3 ods. 1 písm. b) zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov a § 21aa ods. 1 a 7 písm. a) zákona č. 133/2002 Z. z. o Slovenskej akadémii vied., na základe ktorej sa Ústav zoológie SAV, v. v. i. stal s účinnosťou od 1.1. 2022 verejnou výskumnou inštitúciou.

11.2.2023 bol vydaný dodatok č. 1, ktorým sa upravila adresa sídla verejnej výskumnej inštitúcie.

Vnútorné predpisy organizácie:

- Štatút
- Organizačný poriadok
- Pracovný poriadok
- Pravidlá tvorby rozpočtu
- Pravidlá hodnotenia výskumných pracovníkov
- Volebný a nominačný poriadok na funkciu člena Správnej rady
- Volebný a nominačný poriadok na funkciu člena Vedeckej rady

Vnútorné predpisy Správna rada predložila Vedeckej rade a Dozornej rade dňa 31.1.2022. Po vyjadrení Vedeckej rady a Dozornej rady a zapracovaní pripomienok, boli vnútorné predpisy schválené dňa 24.3.2022.

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

Správna rada

Predseda:	RNDr. Dušan Žitňan, DrSc.
Podpredsedníčka:	Ing. Danka Sitarčíková
Členovia:	Mgr. Martina Gáliková, PhD. prof. PaedDr. Pavol Prokop, DrSc. doc. RNDr. Ľubomír Vidlička, CSc.

Správna rada zasadala v roku 2022 3 krát. Na zasadnutiach bol schválený rokovací poriadok a zvolená podpredsedníčka Správnej rady. Boli prerokované a schválené vnútorné predpisy organizácie, rozpočet na rok 2022 a výsledok hospodárenia za rok 2021. Boli vyhlásené voľby na člena Vedeckej rady a prerokované zmeny vnútorných predpisov, ktoré boli predložené Dozornej rade.

Vedecká rada

Zloženie k 1.1.2022:

Predseda:	Ing. Ladislav Roller, PhD.
Členovia:	RNDr. Alžbeta Darolová, CSc. MVDr. Markéta Derdáková, PhD. RNDr. Ľubomír Vidlička, CSc.
Externí členovia:	RNDr. Imrich Barák, DrSc. doc. Dr.rer.nat. Peter Vďačný, PhD.

Zloženie k 31.12.2022:

Predseda:	Ing. Ladislav Roller, PhD.
Členovia:	RNDr. Alžbeta Darolová, CSc. Mgr. Ivana Daubnerová, PhD.
Externí členovia:	Mgr. Ján Kautman doc. Dr.rer.nat. Peter Vďačný, PhD.

Vedecká rada zasadala v roku 2022 4 krát. Na zasadnutiach boli prerokované podklady do Správy o činnosti organizácie SAV za rok 2021, ktorá bola následne schválená. Vedecká rada hodnotila publikačnú činnosť a iné vedecké výkony zamestnancov a doktorandov. Vyjadrila sa k zapojeniu organizácie ako externej vzdelávacej inštitúcie na Pri FUK do študijného programu mikrobiológia a virológia a schválila školiteľov doktorandského štúdia v tomto programe. Ďalej sa vyjadrila k

výkonovému hodnoteniu ústavov SAV, k návrhu riaditeľa k prijatiu nových vedeckých pracovníkov a k návrhu zamestnancov na ceny SAV. Prerokovala a vydala stanovisko k vnútorným predpisom organizácie a ich zmenám.

Dozorná rada

Predseda:	prof. RNDr. Karol Marhold, DrSc.
Členovia:	Ing. Veronika Púčiková Prof. RNDr. Vladimír Kováč, CSc.

Dozorná rada zasadala v roku 2022 3 krát. Na zasadnutiach bol zvolený predseda Dozornej rady. Boli prerokované a schválené vnútorné predpisy organizácie s pripomienkami na zapracovanie. Po predložení zmenených vnútorných predpisov boli prerokované a chválené zmeny vnútorných predpisov.

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

Vedecká rada zhodnotila dosiahnuté výsledky a úroveň projektov riešených na Ústave zoológie SAV, v. v. i. v roku 2022 na svojom zasadnutí 15. mája 2023. Hodnotené boli viaceré parametre výstupov výskumnej činnosti.
Tabuľka 1: Počet publikačných výstupov Ústavu zoológie SAV, v. v. i. v jednotlivých kategóriách (monografie a ich kapitoly AAx a ABx; impaktované časopisy ADx) za posledné štyri roky:

	2019	2020	2021	2022
AAA	-	2	1	-
AAB	1	1	1	-
ABA	1	-	2	2
ABB	-	1	-	-
ADCA	28	35	33	34
ADDA	4	5	5	6
ADMA	9	5	5	7
ADNA	-	-	-	1
Spolu imp.	41	45	43	48

S výnimkou monografií bol pracovníkmi ústavu v roku 2022 v porovnaní s predchádzajúcimi rokmi vyprodukovaný vyšší počet publikácií (Tabuľka 1). Celkový počet prác publikovaných v impaktovaných časopisoch bol najvyšší za posledné štyri roky. Zároveň bol najvyšší aj počet prác, na ktorých mali pracovníci ústavu významný podiel (Tabuľka 2). Podiel prác publikovaných v časopisoch v prvom a druhom kvartile (Q1 a Q2) bol v roku 2022 nižší. Vedecká rada preto odporučila vedeniu ústavu sledovať tento ukazovateľ v ďalšom období a prijať opatrenia na jeho zlepšenie. Naopak odrazom zvyšujúcej sa kvality výskumnej činnosti je počet citácií v renomovaných databázach na práce ústavu, ktorý bol v roku 2022 najvyšší v histórii tejto inštitúcie (Tabuľka 2).

Tabuľka 2: Kvalitatívne ukazovatele publikačnej činnosti Ústavu zoológie SAV, v. v. i. za posledné štyri roky:

Ukazovateľ (počet)	2019	2020	2021	2022
Vedeckí a odborní pracovníci (FTE)	28	27	30	33
Impaktované práce	41	45	43	48
Prvý alebo korešpond. autor v IF prácach	21	19	21	25
Q1 a Q2 práce SJR	31	36	39	31
Ohlasy WOS a SCOPUS	1459	1806	1786	2372

Na Ústave zoológie SAV, v. v. i. bolo v roku 2022 riešených dvanásť projektov VEGA, štyri projekty APVV, jeden projekt OP ŠF EU, jeden projekt UNESCO a jeden projekt LIFE čo Vedecká rada vyhodnotila ako dostatočný počet. Viaceré projekty z domácich agentúr boli v roku 2022 ukončené a projekt OP ŠF EU bude ukončený v roku 2023. Preto Vedecká rada odporučila zvýšiť aktivitu pri podávaní projektov APVV a tiež medzinárodných projektov v programoch EU.
Spôsobilosť vykonávať výskumnú činnosť na vysokej úrovni je podmienená dostupnosťou kvalitnej a modernej vedecko-výskumnej infraštruktúry. Väčšina modernej výskumnej infraštruktúry (napr. konfokálny mikroskop, digitálna PCR) bola zaobstaraná z projektov predchádzajúceho programového obdobia ŠF EU a je plne funkčná. V roku 2022 boli zakúpené stereomikroskop a spektrofotometer. Vedecká rada zhodnotila priestorové a prístrojové vybavenie ústavu ako dostatočné. Ďalšie vybavenie sa bude dokupovať podľa toho, ako bude potrebné.
Záverom Vedecká rada konštatovala, že hodnotené parametre výskumnej činnosti dosiahli rovnakú alebo vyššiu úroveň ako v akreditačnom období 2016-2021, v ktorom ústav získal hodnotenie A/B. Konštatovala, že Ústav zoológie SAV, v. v. i. je spôsobilý vykonávať výskumnú činnosť.

6. Ročná účtovná závierka

Ročná účtovná závierka

a) bola predložená na prerokovanie správnej rade dňa 27. 3. 2023 a správna rada sa vyjadrila dňa 27. 3. 2023.

b) bola predložená na schválenie dozornej rade dňa 29. 3. 2023 a dozorná rada ju schválila dňa 14. 4. 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 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**	**1 725 203,89**	**1 610 614,79**
2. **činnosti podľa § 2 ods. 1 písm. a)**		
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)**		

9. Pohyb a konečný stav majetku

Počiatočný stav majetku k 1.1.2022	Pohyb majetku	Konečný stav majetku k 31.12.2022
671 531,50	+ 643 274,71	1 314 806,21

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

Neboli identifikované žiadne nedostatky a preto neboli prijaté žiadne opatrenia.

11. Ďalšie údaje

Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 spracoval(i):

RNDr. Dušan Žitňan, DrSc.
Ing. Ladislav Roller, PhD.
Ing. Danka Sitarčíková

Výročná správa bola dňa 12.6.2023 schválená dozornou radou.

Bratislava, 14.6.2023.

.....

riaditeľ Ústavu zoológie SAV, v. v. i.

Ústav zoológie SAV, v. v. i.

Správa o činnosti ÚZ SAV, v. v. i. za rok 2022

Bratislava
január 2023

Obsah

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Koncepcia dlhodobého rozvoja organizácie
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky
7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné org.
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti
15. Iné významné činnosti organizácie SAV
16. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV
17. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
18. Problémy a podnety pre činnosť SAV

PRÍLOHY

A Zoznam zamestnancov a doktorandov organizácie k 31.12.2022
B Projekty riešené v organizácii
C Publikačná činnosť organizácie
D Údaje o pedagogickej činnosti organizácie
E Medzinárodná mobilita organizácie
F Vedecko-popularizačná činnosť pracovníkov organizácie SAV

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav zoológie SAV, v. v. i.
Riaditeľ: RNDr. Dušan Žitňan, DrSc.
1. zástupca riaditeľa: Ing. Ladislav Roller, PhD.
2. zástupca riaditeľa: Mgr. Martina Gáliková, PhD.
Vedecký tajomník: doc. RNDr. Ľubomír Vidlička, CSc.
Predseda vedeckej rady: Ing. Ladislav Roller, PhD.
Člen Snemu SAV: RNDr. Dušan Žitňan, DrSc.
Adresa: Dúbravská cesta 9, 845 06 Bratislava

http://zoo.sav.sk

Tel.: 02/5930 2602
E-mail: jana.kusnirova@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Terénna výskumná stanica v Gabčíkove**
  Gabčíkovo 1315

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Terénna výskumná stanica v Gabčíkove**
  vedúci nie je zadaný

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	55	31	24	4	5	53	43.3	23.75	1
Vedeckí pracovníci	38	26	12	3	0	36	28.49	23.42	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	7	2	5	1	4	7	5.11	0.33	1
Odborní pracovníci VŠ (ostatní zamestnanci[2])	3	0	3	0	0	3	2.2	0	0
Odborní pracovníci ÚS	5	2	3	0	1	5	5.5	0	0
Ostatní pracovníci	2	1	1	0	0	2	2	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	3	23	2	3	4	12	10
Ženy	0	12	0	0	0	8	4

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	1	1.0	2	2.0	2	2.0	1	1.0	3	2.5	1	1.0	2	2.0	2	1.3	3	1.2
Ženy	1	1.0	0	0.0	2	2.0	3	3.0	3	2.2	0	0.0	0	0.0	2	2.0	0	0.0

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	49.7	50.0	50.5
Ženy	44.4	46.8	45.5
Spolu	47.4	49.0	48.5

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

V rámci transformácie ÚZ SAV na v. v. i. vzniklo na ústave piate oddelenie – **Oddelenie genetiky a ekofyziológie**.

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	9	3	-	-	49660	49660	-	6082
2. Projekty APVV	3	1	-	-	82229	141061	-	9775
3. Projekty EŠIF/OP ŠF	0	1	-	-	-	-	-	143115
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	37422	37422	58363	58363	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

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	Bratislava	4	-
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	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	2	-	-	-	-	-	80000
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	1	1	-	-	-	8080	-	2500
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	1	0	-	-	-	-	-	-

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		

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

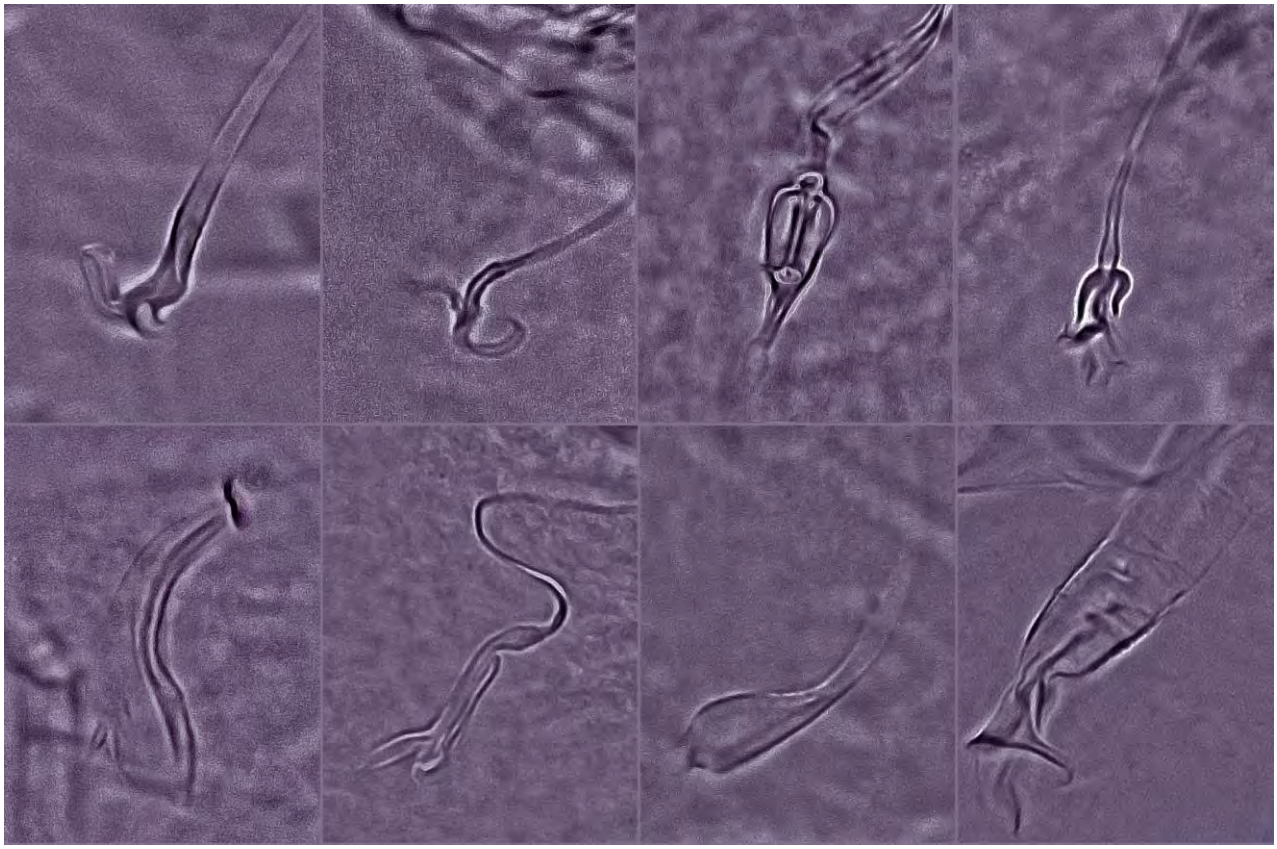
V súčasnosti riešime jeden projekt Štrukturálnych fondov „DNA barcoding Slovenska (SK-BOL), súčasť medzinárodnej iniciatívy International Barcode of Life (iBOL)“ a neustále sledujeme vhodné výzvy, do ktorých by sme sa mohli zapojiť.

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

a) Revízia roztočov z čeľade Melicharidae a opisy 33 pre vedu nových druhov
Roztoče z čeľade Melicharidae patria prevažne k mykofágom. Sú hojné v rôznych organických substrátoch, ktoré sa rozkladajú za pomoci húb. Najčastejšie tvoria zložku edafónu, ale aj nidikolných a arborikolných spoločenstiev. Pozoruhodnými sú ekologicky úzko špecializované druhy žijúce na drevokazných hubách alebo v žerových chodbičkách podkôrneho a drevokazného hmyzu. S pomocou porovnávacieho typového materiálu z depozitov rôznych inštitúcií v Európe, Amerike a Ázii, bola vypracovaná monografia, ktorá pojednáva o týchto roztočoch z územia Slovenska z hľadiska ich morfológie, systematiky, chorológie a ekológie. Obsahuje opisy platných druhov a vnútorných taxónov čeľade, revízie sporných a synonymizovaných druhov a originálne determinačné kľúče pre identifikáciu 68 v Európe zaznamenaných druhov. Prílohu tvorí rozsiahly súbor farebných mikrofotografií s viac než 1 300 obrázkami, ktoré sú usporiadané do 337 tabúľ. Monografia uvádza z nášho územia 61 druhov a 5 rodov vrátane 33 nových druhov. Rozlíšenie a opís tak značného počtu neznámych druhov umožnil objav jemných rúrkovitých až mechúrikovitých štruktúr spermatického aparátu v pohlavnom systéme samíc. Tie zabezpečujú príjem, zadržanie a uchovanie spermií. Hoci je prítomnosť a samotná morfológia spermaték u roztočov pomerne dobre známym fenoménom, u niektorých druhov rodu *Proctolaelaps* sa o ich prítomnosti a druhovo podmienenej tvarovej rozmanitosti doteraz nevedelo, pravdepodobne pre obtiažnu detekciu spôsobenú ich hyalínnou povahou (slabou sklerotizáciou) a nepatrnými rozmermi, a tiež nepriehľadným obsahom tráviacej sústavy, ktorý zvyčajne prekrýva vnútorné pohlavné orgány u starších samíc. Napríklad v dôsledku rozmanitosti spermatických štruktúr bolo možné rozlíšiť až 19 nových druhov, ktoré boli doteraz považované za jediný druh, *P. pygmaeus* (Müller, 1859). O čo je morfologické ohraničenie týchto zdanlivo kryptických druhov slabšie určené vonkajšími morfologickými znakmi, o to je lepšie definovateľné morfológiou vnútorných pohlavných štruktúr samíc.

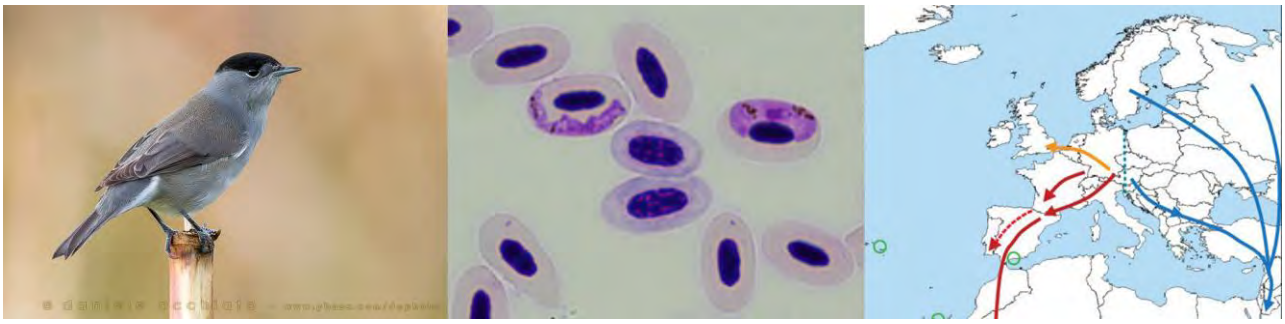


Ukážka rozmanitosti utvárania koncovej časti spermatického kanálika v pohlavných štruktúrach príbuzných druhov skupiny *Proctolaelaps pygmaeus*.

MAŠÁN, Peter**. The family Melicharidae (Acari, Mesostigmata) in Slovakia, with description of new species, annotated faunal synopsis and identification keys of species from Europe. In Zootaxa : Monograph _section, 2022, vol. 5172, no. 1, p. 1-449. (2021: 1.026 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR). ISSN 1175-5334. Dostupné na: https://doi.org/10.11646/zootaxa.5172.1.1 Typ: ABA

b) Distribúcia vtáčích krvinkoviek ovplyvnená klimatickou a geografickou variáciou

Krvinkovky (Haemosporida) patria medzi rozšírené jednobunkové parazity. Ich výskyt na Slovensku sme sledovali u rôznych druhov spevavcov a zistili sme, že medzi najviac infikované druhy patria drozd čierny, penica čiernohlavá, sýkorka veľká a červienka obyčajná. V našej práci sme popísali štruktúru a vzťahy medzi krvinkovkami u modelových vtáčích druhov na Slovensku ako aj u vybraných krvinkoviek na území západného Palearktu. Zisťovali sme vplyv klímy a geografickej variácie na distribúciu krvinkoviek u piatich rozšírených európskych spevavcov. Výsledky štatistickej analýzy ukázali, že distribúcia jednotlivých druhov krvinkoviek je ovplyvnená klímou. Napríklad niektoré druhy krvinkoviek špecifických pre penicu sú silne spojené s mediteránnou klímou, zatiaľ čo iné druhy u drozdov sú spojené s miernym klimatickým pásmom. Samostatná analýza pre penicu čiernohlavú odhalila, že jej populácie líšiace sa migračnou stratégiou majú rôznych parazitov. Populácia peníc migrujúcich na dlhé vzdialenosti je pravdepodobne severská populácia, ktorá zimuje vo východnej časti mediteránnej oblasti. Parazity tejto populácie sme na našom území zachytili prevažne u dospelých jedincov počas jesennej migrácie. Druhá populácia sú migranti na krátku vzdialenosť a ich zimovisko je mediterán. Na našom území sme ich parazity zachytávali hlavne počas leta nielen u dospelých ale aj u juvenilov, čo indikuje aktívny prenos na našom území. Z toho vyplýva, že geografická distribúcia krvinkoviek môže byť prepojená s migračnou stratégiou jednotlivých druhov spevavcov. Výsledky naznačujú, že niektoré ekologické faktory, ako napr. klíma, môžu ovplyvňovať diverzitu a distribúciu jednotlivých parazitických línií aj v rámci jedného druhu hostiteľa.



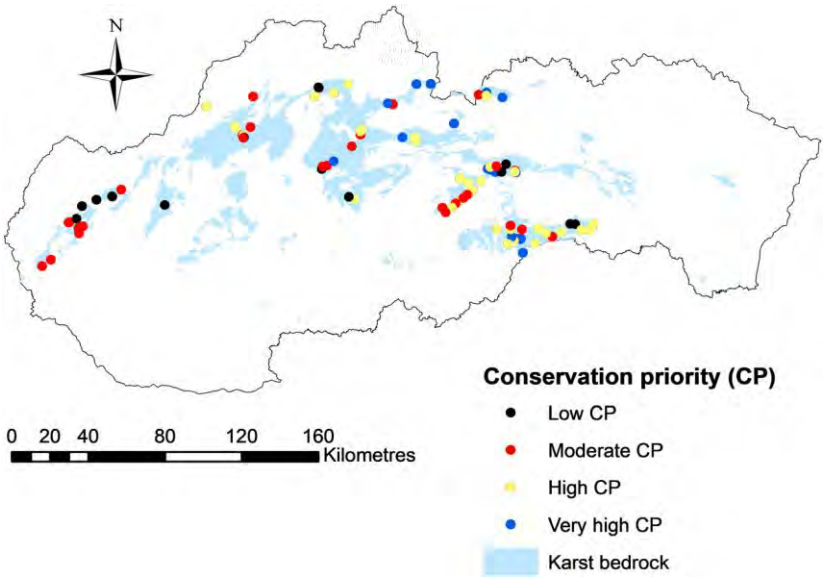
ŠUJANOVÁ, Alžbeta - VÁCLAV, Radovan. Phylogeographic Patterns of Haemoproteid Assemblages of Selected Avian Hosts: Ecological and Evolutionary Implications. In Microorganisms, 2022, vol. 10, no.5, article no:1019, 19 pp. (2021: 4.926 - IF, Q2 - JCR, 0.862 - SJR, Q2 - SJR). ISSN 2076-2607. Dostupné na: https://doi.org/10.3390/microorganisms10051019
Typ: ADCA

2.3.2. Výsledky aplikačného typu

a) Biodiverzita makrozoobentosu krasových prameňov Západných Karpát v kontexte ochrany prírody

Pramene sú ľudskou spoločnosťou vo všeobecnosti vnímané hlavne ako potenciálne zdroje pitnej vody. Zároveň však predstavujú zaujímavé a ohrozené ekosystémy, typické stabilitou fyzikálno-chemických podmienok, z čoho vyplýva aj to, že ich považujeme za ekosystémy s ostrovným charakterom. A aj keď pramene celosvetovo predstavujú z hľadiska druhového zloženia unikátne stanovištia, zväčša sú mimo hlbšieho vedeckého aj ochranárskeho záujmu. V našej štúdii sme preskúmali krasové pramene Západných Karpát na území Slovenska a porovnali sme ich s tokmi v rámci tohto geomorfologického celku. V porovnaní s hornými (ritrálovými) úsekmi tokov majú krasové pramene nižšie druhové bohatstvo a nemôžu byť považované za „hotspoty“ biodiverzity, avšak ich metaspoločenstvá s vysokým druhovým obratom majú vysokú gama diverzitu. To znamená, že makrozoobentos jednotlivých prameňov súborne vytvára unikátne spoločenstvo hodné ochrany. Súčasná miera ochrany je nedostatočná, keďže dokonca aj v chránených územiach sú pramene často zachytené (ako zdroje pitnej vody) a hydromorfologicky alebo inak narušené.

Na určenie ochranárskej priority (OP) pre jednotlivé krasové pramene bola použitá jednoduchá metóda, a to stanovenie podielu druhov z Červeného zoznamu, endemitov, pramenných druhov a celkovej druhovej bohatosti pre jednotlivé pramene. Na základe tejto metódy dosiahlo 16 % prameňov veľmi vysokú OP (modré body), 39 % vysokú OP (žlté body), 33 % miernu OP (červené body) a 12% nízku OP (čierne body). Týmto spôsobom hodnotenia môžu byť kategorizované aj ďalšie typy prameňov. Prameňom s veľmi vysokou OP by sa mala venovať špeciálna pozornosť a mali by byť zaradené do celosvetovej siete chránených prírodných území. Zároveň môžu naše výsledky prispieť k príprave zonácie národných parkov na Slovensku ako aj k ďalšiemu rozvoju ochrany prírody.



CÍBIK, Jakub** - BERACKO, Pavel - BULÁNKOVÁ, Eva - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana - GREGUŠOVÁ, Katka - KODADA, Ján - KRNO, Iľja - MIŠÍKOVÁ ELEXOVÁ, Emília - NAVARA, Tomáš - ROGÁNSKA, Alexandra - DERKA, Tomáš. Are springs hotspots of benthic invertebrate diversity? Biodiversity and conservation priority of rheocrene springs in the karst landscape. In Aquatic Conservation: Marine and Freshwater Ecosystem, 2022, vol. 32, no 5, p. 843-858. (2021: 3.254 - IF, Q1 - JCR, 0.830 - SJR, Q1 - SJR). ISSN 1052-7613. Dostupné na: https://doi.org/10.1002/aqc.3802 Typ: ADCA

b) Poznanie mikrobiómu – cesta k alternatívnym metódam boja s kliešťami

Kliešť obyčajný, *Ixodes ricinus*, je v Európe najvýznamnejším prenášačom pôvodcov kliešťami prenosných zoonotických ochorení. V boji s kliešťami sa akaricídy ukázali ako nevhodné, nakoľko kontaminujú životné prostredie a navyše, kliešte nadobúdajú voči nim rezistenciu. Z uvedeného dôvodu sa vedecká komunita snaží nájsť alternatívne a životné prostredie šetriace stratégie eliminácie populácií kliešťov a zníženia rizika prenosu patogénov. Okrem patogénnych mikroorganizmov tvoria mikrobióm kliešťov nepatogénne symbiotické mikroorganizmy, komenzály a kontaminanty z prostredia. Zloženie mikrobiómu závisí od druhu kliešťa, vývinového štádia a pohlavia, geografickej oblasti aj od okolitého prostredia. Niektoré z týchto mikroorganizmov, predovšetkým symbionty, sú nevyhnutné pre prežitie kliešťov, pretože ovplyvňujú ich metabolizmus, vývin, imunitnú odpoveď, reakcie na stres, správanie a vektorovú kompetenciu. Jednou zo sľubných stratégií boja s kliešťami je manipulácia ich mikrobiómu pomocou vakcín, ktoré by boli zacielené proti vybraným zložkám mikrobiómu a narušili by množenie patogénov a ich prenos. K tomu je však potrebné dokonale poznať mikrobióm kliešťov, vzájomné vzťahy medzi zložkami mikrobiómu a ich vplyvu na fyziologické funkcie kliešťov, vrátane prenosu patogénnych mikroorganizmov. Napriek tomu, že existuje veľa poznatkov o mikrobióme kliešťov, mnohé aspekty zostávajú neobjasnené. V prehľadnej práci (review) sme zhrnuli doterajšie poznatky o mikrobióme kliešťov, naznačili sme medzery v poznaní ako aj oblasti výskumu, ktoré môžu priniesť nové poznatky o funkciách mikrobiómu a tak prispieť k zlepšeniu stratégie boja proti kliešťom.

HODOŠI, Richard - KAZIMIROVA, Maria - SOLTYS, Katarina. What do we know about the microbiome of *I. ricinus*? In: Frontiers in Cellular and Infection Microbiology 2022, vol. 12, art. no. 990889, 27 pp. (2021: 6.073 - IF, Q1 - JCR, 1.389 - SJR, Q1 - SJR).

2.3.3. Výsledky na báze medzinárodnej spolupráce

Revízia špecializovaných švábov – prvých opeľovačov

Súčasné ekosystémy sú predovšetkým založené na vzťahoch kvetov a ich hmyzích opeľovačoch. V tomto vzťahu je zakotvená aj väčšina rozmanitosti a aj biomasy (krytosemenné rastliny sú okrem kvetov aj napríklad všetky listnaté stromy). Vznik tohto vzťahu je preto prioritným problémom biológie. Vzťah sa začal formovať v kriede pred približne 127 miliónmi rokmi, avšak prvými opeľovačmi neboli včely (tie vznikli neskôr), ale niektoré chrobáky a najmä švábY zo skupiny Umenocoleoidea kam patrí aj revidovaná čeľaď Alienopteridae. Priniesli sme rozsiahle priame dôkazy pre prenos, konzumáciu peľu a aj opeľovanie. Ukázali sme, že švábY opeľovali rastliny ešte pred vznikom krytosemenných rastlín a preto boli na túto úlohu prispôsobené. Prinášame aj informácie o prenose peľu cykasov mláďatami (nymfami) švábov bizarného vzhľadu, ktoré napodobňujú iný hmyz, konkrétne prvých mravcov. Popri švábOch, ktoré sa živili priamo nektárom (pomocou redukovaných špongióznych ústnych orgánov), je to dôležitý posun v pochopení evolúcie opeľovania. Niektoré sieťokrídlovce kedysi opeľovali rastliny dlhým „cuciakom“, neskôr sa na pojedanie nektáru dlhým cuciakom špecializovali motýle. ŠvábY teda zohrali principiálnu úlohu pri projektovaní prvých moderných ekosystémov, ale tým ich úloha ako opeľovačov prakticky skončila. Dnes opeľujú rastliny veľmi vzácne. Ukazuje sa, že najväčšia rozmanitosť foriem švábov (zachovaných v jantári) bola práve v kriede. Dnes je funkcia švábov a ich blízkych príbuzných

predovšetkým rozkladanie, predácia (modlivky) a formovanie ekosystémov spoločenstvami termitov. Treťohorné skupiny švábov sa už opeľovania v takej miere nezúčastňovali. Opeľovanie v súčasnosti prebrali predovšetkým včely, muchy a pestrá paleta iného hmyzu.

LUO, Cihang** - BEUTEL, Rolf G. - ENGEL, Michael - LIANG, Kun - LI, Liqin - LI, Jiahao - XU, Chunpeng - VRŠANSKÝ, Peter - JARZEMBOWSKI, Edmund - WANG, Bo. Life history and evolution of the enigmatic Cretaceous-Eocene Alienopteridae: A critical review. In Earth-Science Reviews, 2022, vol. 225, art. no. 103914. (2021: 12.038 - IF, Q1 - JCR, 3.610 - SJR, Q1 - SJR). ISSN 0012-8252. Dostupné na: https://doi.org/10.1016/j.earscirev.2021.103914 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)	**1 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**2 / 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)	**3 / 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)	**40 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**8 / 1**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**7 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**1 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**2 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**2 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**0 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**1**
19. Zostavovateľské práce knižného charakteru (FAI)	**1 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2021 (zdroj JCR) *Počet článkov / doplnky*	13 / 0	16 / 1	14 / 0	2 / 0	45 / 1
Podľa SJR z r. 2021 (zdroj Scimago) *Počet článkov / doplnky*	21 / 1	9 / 0	16 / 0	2 / 0	48 / 1

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2021/ doplnky z r. 2020**
Citácie vo WOS (1.1, 2.1)	1369 / 64
Citácie v SCOPUS (1.2, 2.2)	1034 / 88
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	100 / 4
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	21
Prednášky a vývesky na národných vedeckých podujatiach	3

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

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

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

a) na Slovensku

b) v zahraničí

Názov vynálezu: Novel thrombin inhibitors
Číslo patentu: 403086
Dátum priority: 17.6.2016
Majiteľ / spolumajiteľ: National University of Singapore , Singapore (SG), Institute of Zoology , Slovak Academy of Sciences , Bratislava (SK)
Pôvodcovia vynálezu: Janaki Krishnamoorthy Iyer , Singapore (SG) ; Cho Yeow Koh , Singapore (SG) ; R. Manjunatha Kini , Singapore (SG)

Názov vynálezu: Novel thrombin inhibitors
Číslo patentu: ZL201680048275.X
Dátum priority: 17.6.2016
Majiteľ / spolumajiteľ: National University of Singapore , Singapore (SG), Institute of Zoology , Slovak Academy of Sciences , Bratislava (SK)
Pôvodcovia vynálezu: Janaki Krishnamoorthy Iyer , Singapore (SG) ; Cho Yeow Koh , Singapore (SG) ; R. Manjunatha Kini , Singapore (SG)

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
Darolová Alžbeta	VEGA	1
Kazimírová Mária	VEGA	1
Mangová Barbara	VEGA	2
Prokop Pavol	APVV	3
	VEGA	3
Roller Ladislav	VEGA	3
Vidlička Ľubomír	VEGA	3
Žitňan Dušan	APVV	10
	Doktogrant	6

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

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
Darolová Alžbeta	1	0	3	0	0	0	0
Gáliková Martina	0	0	15	0	0	0	0
Kazimírová Mária	0	0	20	3	2	0	0
Klepsatel Peter	0	0	9	0	0	0	0
Kokavec Igor	0	0	1	1	0	0	0
Mangová Barbara	0	0	1	0	0	0	0
Mašán Peter	0	1	0	0	0	0	0
Navara Tomáš	0	0	0	0	0	0	1
Prokop Pavol	0	0	25	0	0	0	0
Roller Ladislav	0	0	1	5	0	0	0
Rusňáková Tarageľová Veronika	0	0	2	0	0	0	0
Selyemová Diana	0	0	1	0	0	0	0
Šustek Zbyšek	0	0	5	0	0	1	0
Václav Radovan	0	0	4	0	0	0	0
Vidlička Ľubomír	0	0	8	10	2	0	0
Vršanský Peter	0	0	5	0	0	0	0
Spolu	**1**	**1**	**100**	**19**	**4**	**1**	**1**

2.11. Iné informácie k vedeckej činnosti.

Rok 2022 bol pre Ústav zoológie SAV, v. v. i. opäť úspešný v publikačnej oblasti. Pracovníci ÚZ SAV boli autormi a spoluautormi 2 zahraničných a jednej domácej monografie, po jednom článku publikovali v časopisoch Nucleic Acids Research (IF - 19,160), Nature Communications (IF - 17,694), Earth-Science Reviews (IF - 12,039), Analytical Chemistry (IF - 8,008), Frontiers in Cellular and Infection Microbiology : Specialty Journal of Frontiers in Microbiology (IF - 6,073), Evolution and Human Behavior (IF - 5,327) a publikovali ďalšie 3 články s IF nad 4 a 7 článkov s IF nad 3.

Celkovo sme publikovali takmer 50 článkov v kvalitných impaktovaných časopisoch. Vysoké nároky na kvalitu výsledkov a publikačných výstupov sú trvalou prioritou ústavu.

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	4	2	0	0	2	0	1	1	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	0	1	0	0	0	0	0	0	0	0	0	0
Spolu	4	3	0	0	2	0	1	1	0	0	0	0
Z toho zahraničných	0	0	0	0	0	0	1	0	0	0	0	0
Súhrn	7		0		2		2		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 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	0	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
Mgr. Jan Hinkelman	interné štúdium hradené z prostriedkov SAV	9 / 2018	6 / 2022	4.2.5 zoológia	Mgr. Peter Vršanský PhD., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Dominika Hromníková	interné štúdium hradené z prostriedkov SAV	9 / 2017	3 / 2022	4.2.3 molekulárna biológia	RNDr. Dušan Žitňan DrSc., Ústav zoológie 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
1	1	0	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	1	HRV/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)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
biológia	1536	zoológia	Prírodovedecká fakulta UK
		molekulárna biológia	Prírodovedecká fakulta UK
		fyziológia živočíchov	Prírodovedecká fakulta UK
		mikrobiológia a virológia	Prírodovedecká fakulta UK
molekulárna biológia	4.2.3		Prírodovedecká fakulta UK
zoológia	4.2.5		Prírodovedecká fakulta UK

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

Tabuľka 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
prof. PaedDr. Pavol Prokop, DrSc. (ochrana a využívanie krajiny)	prof. PaedDr. Pavol Prokop, DrSc. (Prírodovedecká fakulta UK)	
Ing. Ladislav Roller, PhD. (zoológia)	doc. RNDr. Ľubomír Vidlička, CSc. (Slovenské národné múzeum)	
doc. RNDr. Michal Stanko, DrSc. (zoológia)		
doc. RNDr. Ľubomír Vidlička, CSc. (ochrana a využívanie krajiny)		
Mgr. Peter Vršanský, PhD. (paleontológia)		
RNDr. Dušan Žitňan, DrSc. (molekulárna biológia)		

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	1	0
Celkový počet hodín v r. 2022	83	0	28	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**	11
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	18
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	6
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	10
5.	**Počet oponovaných dizertačných a habilitačných prác**	4
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	3
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**	6
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

3.9. Iné dôležité informácie k pedagogickej činnosti

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

VI. Labudove dni, Smolenice, 49 účastníkov, 04.04.-06.04.2022
Labudove dni sú už tradične, po šiestykrát, usporiadané na počesť významného slovenského biológa RNDr. Milana Labudu, DrSc., bývalého riaditeľa Ústavu zoológie SAV.

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)

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
Derdáková Markéta	0	1	0
Kazimírová Mária	0	1	0
Roller Ladislav	1	0	0
Rusňáková Tarageľová Veronika	0	1	0
Selyemová Diana	0	1	0
Stanko Michal	1	0	0
Spolu	2	4	0

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

RNDr. Alžbeta Darolová, CSc.

Česká ornitologická spoločnosť (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

European society for clinical microbiology and infectious diseases (funkcia: člen)

MVDr. Yuliya Didyk, PhD.

Member of Ukrainian Entomological Society (funkcia: member)
Ukrainian Scientific Society of Parasitologists (funkcia: member)

Mgr. Igor Kokavec, PhD.

The Crustacean Society (funkcia: člen)

Ing. Zbyšek Šustek, CSc.

Asociación Internacional de Coleopterología, Barcelona, Espana (funkcia: člen)

doc. RNDr. Ľubomír Vidlička, CSc.

Deutsche Gesellschaft für Orthopterologie (funkcia: člen)

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
Kazimírová Mária	Actions Concertées Inter Pasteuriennes - ACIP 2022	1
Klepsatel Peter	European Science Foundation	1

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

a) Evolúcia a ochrana veľkoplošných primárnych ekosystémov

Bolo publikovaných 6 originálnych vedeckých článkov, z toho jeden (Luo et al. 2022) vo vysokoimpaktovom časopise Rank 1 (IF-12.038) v celej kategórii Earth Sciences. Okrem toho ďalších 7 CC článkov (Sendi 2021ab, Hinkelman 2021ab, Šmídová et al. 2021, Vršanský et al. 2021ab) má oficiálne identifikátory v roku 2022.

Bola zorganizovaná celoštátna stredoškolská súťaž pod záštitou Ministra s účasťou vyše 1,000 účastníkov a s vysadením 1,361 pôvodných neovocných stromov. Víťazi sa zúčastnili mesačnej expedície do Indie, kde dosiahli prevratné vedecké a ochranárske výsledky vrátane koordinácie prípravy najväčšieho národného parku sveta v Himalájach.

Hlavnými výsledkami sú dôkaz najstarších opeľovačov (cykasov) z druhohorných jantárov; objav najdlhšej línie hmyzu vôbec (pôvodom z karbónu); dôkaz uniformnosti severomyanmarského jantáru - najvýznamnejšej fosílnej lokality sveta vôbec; analýza vzniku najjednoduchšieho mätúceho výstražného sfarbenia (bodky); opis prvých dospelých švábov z Libanonu - zo sedimentov vekom zodpovedajúcich jantárom Jordánsko-Libanon-Sýria; opis nových druhov hmyzu z kriedy Mongolska.

LUO, Cihang** - BEUTEL, Rolf G. - ENGEL, Michael - LIANG, Kun - LI, Liqin - LI, Jiahao - XU, Chunpeng - VRŠANSKÝ, Peter - JARZEMBOWSKI, Edmund - WANG, Bo**. Life history and evolution of the enigmatic Cretaceous-Eocene Alienopteridae: A critical review. In Earth-Science Reviews, 2022, vol. 225, art. no. 103914. (2021: 12.038 - IF, Q1 - JCR, 3.610 - SJR, Q1 - SJR).

VRŠANSKÝ, Peter** - POSCHMANN, Markus J. - VIDLIČKA, Ľubomír. Oligocene pseudophyllodromiin cockroach from the Enspel Fossillagerstatte in Germany. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, no. 1-6, p. 149-167. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

VRŠANSKÝ, Peter** - PÁLKOVÁ, Helena - VRŠANSKÁ, Lucia - KOUBOVÁ, Ivana -

HINKELMAN, Jan*. Mesozoic origin?delayed explosive radiation of the cockroach family Corydiidae Saussure, 1864. In Biologia, 2022, vol., no., 32 pp. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR).

HINKELMAN, Jan. Cuniculoblatta brevialata gen. et sp. n., the second case of brachyptery from Cretaceous North Myanmar amber. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, iss.1–6, p. 97–107. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

HINKELMAN, Jan. Mongolblatta sendii sp. n. (Mesoblattinidae) from North Myanmar amber links record to Laurasian sediments. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, iss. 1–6, p. 81–96. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

SENDI, Hemen**. Diverse Liberiblattinidae (Insecta: Blattaria) from Lebanese and North Myanmar amber document allometric modifications near lowest size limit. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, issues 1–6, p. 127–148. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

SENDI, Hemen**. Highly specialised basal ectobiid cockroaches (Blattaria: Blattoidea) were rare in Burmese amber. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, issues 1–6, p. 109–125. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

ŠMÍDOVÁ, Lucia** - VIDLIČKA, Ľubomír - WEDMANN, Sonja. Appearance of the family Blaberidae (Insecta: Blattaria). In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, iss. 1–6, p. 71–79. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR).

b) Vínna muška Drosophila melanogaster ako model pre štúdium obezity

Drozofila *(Drosophila melanogaster)* je mimoriadne užitočným modelom pre štúdium metabolických regulácií, akými sú napr. obezita, cukrovka či metabolický syndróm. Zatiaľ čo kontrola drozofilieho metabolizmu peptidovými hormónmi je pomerne dobre preskúmaná, o úlohách steroidných hormónov v energetickej homeostáze vieme len veľmi málo.

Skúmali sme metabolické úlohy ekdysteroidov pomocou troch paralelných prístupov: 1. Sledovaním korelácií medzi obezitou a hladinou týchto hormónov, 2. Štúdiom metabolických fenotypov vyvolaných genetickými manipuláciami ekdysteroidnej dráhy, 3. Skúmaním dôsledkov kŕmenia mušiek syntetickým analógom 20-hydroxyekdyzónu. Naše prvé výsledky ukázali, že obezita je sprevádzaná zmenami v expresii enzýmov biosyntetickej dráhy pre ekdyzón, i v samotnej hladine tohto hormónu. Nižšia hladina ekdysteroidov u obéznych mušiek však nie je príčinou ich zvýšenej akumulácie tukov. Zníženie aktivity ekdysteroidnej dráhy pomocou genetických manipulácií totiž znižuje množstvo energetických zásob. Treba však poznamenať, že dôsledky genetických manipulácií tejto dráhy zrejme závisia aj od vonkajších faktorov, ako napríklad teplota či kvalita potravy. Úlohu ekdysteroidov v regulácii energetickej rovnováhy sme sledovali skúmaním dôsledkov genetických manipulácií príslušnej dráhy na základné procesy, ako napr. príjem potravy, rýchlosť bazálneho metabolizmu, množstvo tukových a karbohydrátových zásob. Naše výsledky naznačujú, že ekdysteroidy regulujú príjem potravy, zatiaľ čo ich úloha v kontrole rýchlosti bazálneho metabolizmu je len mierna, resp. nejasná. Na základe tkanivovo-špecifických manipulácií ekdyzónového receptora vieme, že ekdysteroidy pôsobia priamo na tukové teleso (orgán analogický k tukovému tkanivu cicavcov). Zníženie ekdysteroidnej dráhy v tomto tkanive viedlo k zníženiu všetkých základných energetických rezerv (tukov, glykogénu i trehalózy).

Na záver môžeme skonštatovať, že boli potvrdené úlohy pohlavných hormónov v metabolizme drozofily i obrovský potenciál tohto modelového organizmu pre objasnenie mechanizmu ich účinku. Ukázali sme, že ekdysteroidy regulujú kľúčové procesy energetickej rovnováhe, ako napr. príjem potravy, a sú tiež potrebné špecificky v tukovom telese pre uchovanie tukových a karbohydrátových rezerv.

GÁLIKOVÁ, Martina** - KLEPSATEL, Peter*. Ion transport peptide regulatesenergy intake, expenditure, and metabolic homeostasis in Drosophila. In Genetics,2022, vol. 222, no. 4, iyac 150, p. [1-19]. (2021: 4.402 - IF, Q2 - JCR, 2.212 - SJR,Q1 - SJR). ISSN 0016-6731. Dostupné na: https://doi.org/10.1093/genetics/iyac150

KLEPSATEL, Peter** - GÁLIKOVÁ, Martina. Developmental temperature affects thermal dependence of locomotor activity in Drosophila. In Journal of Thermal Biology, 2022, vol. 103, art. no. 103153. (2021: 3.189 - IF, Q1 - JCR, 0.644 - SJR, Q1 - SJR). ISSN 0306-4565. Dostupné na: https://doi.org/10.1016/j.jtherbio.2021.103153

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)

Posledné hodnotenie ÚZ SAV v.v.i. akreditačnou komisiou dopadlo veľmi dobre (A/B). Vedenie ústavu venuje veľkú pozornosť odporúčaniam hodnotiaceho panelu a dlhodobo sa snaží zaviesť opatrenia na zlepšenie kvality vedeckých výstupov a doktorandského štúdia. Základným predpokladom na splnenie týchto cieľov je prijímanie schopných, produktívnych a technicky zdatných vedeckých pracovníkov po dlhoročných pobytoch na špičkových zahraničných univerzitách, ktorí majú predpoklady prilákať a školiť nadaných študentov a doktorandov. V rámci našich možností sa nám v priebehu posledných rokov vytvoriť súdržný kolektív motivovaných mladých vedeckých pracovníkov, doktorandov a študentov. V tomto trende chceme pokračovať a rozširovať kapacity talentovaných mladých vedcov. Zameriavame sa na získavanie domácich a zahraničných projektov, z ktorých by bolo možné financovať ďalších vedeckých pracovníkov a rozširovať infraštruktúru. Nový projekt LIFE môže slúžiť ako príklad, na ktorom sú finančné prostriedky pre prijatie produktívnych vedcov a aj kapitálové prostriedky na nákup potrebných prístrojov. Primeranú pozornosť venujeme aj rozvoju spolupráce s domácimi a zahraničnými odborníkmi, ktorá je potrebná na efektívne využitie dostupných intelektuálnych a finančných zdrojov.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

1. Zvyšovanie kvality výstupov výskumu
Základnou povinnosťou každého vedeckého pracoviska je zvyšovať kvalitu výstupov výskumu po odbornej aj technickej stránke. O to sa dlhodobo snažíme a výsledkom tejto politiky je stále sa zvyšujúca vedecká produktivita vyjadrená kvalitnými publikáciami v monografiách a medzinárodných vedeckých časopisoch s pomerne vysokým impakt faktorom. Pre stimuláciu vedeckých pracovníkov sme vypracovali a v súčasnosti zdokonalili model zohľadňujúci impakt faktor a kvartil vedeckých časopisov, na základe ktorého sú pracovníci odmeňovaní. Veľká snaha vedenia ÚZ SAV o vytvorenie čo najlepších pracovných podmienok umožnila prijať v priebehu posledných rokov veľmi schopných a produktívnych vedeckých pracovníkov, ktorí založili svoje laboratóriá kde rozvíjajú aktuálne a progresívne témy. V pôvodnom akčnom pláne sme podrobne opísali aj neduhy týkajúce sa podpory vedeckého výskumu na Slovensku s nádejou, že sa ich postupne podarí odstrániť. Žiaľ zaostávanie Slovenskej vedy za vyspelými krajinami v Európe a vo svete sa prehlbuje a neduhy opísané v minulosti doteraz pretrvávajú.

2. Zvyšovanie kvality doktorandského štúdia
Na ÚZ SAV si plne uvedomujeme, že bez kvalitného doktorandského štúdia sa nepodarí zabezpečiť pokrok a rozvoj vedeckého výskumu. V pôvodnom akčnom pláne sme podrobne opísali kritériá pri výbere školiteľov pre doktorandské štúdium aj pri prijímaní doktorandov. Napriek veľkej konkurencii zo zahraničných univerzít, akademických pracovísk a rôznych firiem sa nám darí každoročne získavať nových talentovaných doktorandov zo Slovenska, ale aj zo zahraničia. Tiež sme zorganizovali Klub mladých vedeckých pracovníkov, kde sa diskutuje o najnovších a zaujímavých poznatkoch vo vede a technike.

3. Kariérny rast postdoktorandov a výskumníkov
Dlhodobá progresívna politika a dobré pracovné podmienky umožnili prijať na ÚZ SAV niekoľko veľmi schopných a produktívnych mladých vedeckých pracovníkov po dlhodobých pobytoch na univerzitách a vedeckých inštitúciách v EÚ a USA. Na ÚZ SAV sa rieši grant podaný do Horizont 2020, za ktorý získala naša pracovníčka, Martina Gáliková PhD, „Seal of excellence“. Vedenie ústavu priebežne jedná s ďalšími mimoriadne schopnými mladými vedeckými pracovníkmi v zahraničí o možnostiach zamestnať sa na ÚZ SAV s cieľom vytvoriť si svoje vlastné laboratóriá a pracovné

skupiny. Súčasná mzdová reforma však negatívne ovplyvňuje personálnu politiku ústavu a potláča snahu o vytváranie pracovných miest pre takých vysoko produktívnych pracovníkov, ktorí vyžadujú pomerne vysoké osobné ohodnotenie.

4. Zvyšovanie úspešnosti SAV v programoch ERA osobitne Horizont 2020
V minulosti boli pracovníci ÚZ SAV veľmi úspešní v získavaní zahraničných projektov z EU (3, 4, 5, 6. a 7. RP EU, Alpe 2, MOLAR, EMERGE, STAR, ICCTD3, EDEN, EDENext, Interreg, LIFE) aj USA (tri granty z National Institutes of Health). V súčasnosti sme sa zapojili v spolupráci zo SNM do riešenia projektu zo Štrukturálnych fondov. Naši pracovníci riešia medzinárodné projekty UNESCO a nový významný projekt LIFE, ktorý je financovaný na 6 rokov. V tomto roku sa na ÚZ SAV začal riešiť aj projekt z programu MoRePro. V budúcnosti sa budeme snažiť podávať ďalšie medzinárodné projekty v programoch EU.

5. Projekty VEGA a APVV
ÚZ SAV je veľmi úspešný v získavaní grantov z VEGA a APVV. V súčasnosti je pracovisko hlavným riešiteľom 10 VEGA projektov a 4 spoluriešiteľských projektov. Z APVV sme získali podporu 4 projektov ako hlavní riešitelia a 2 projektov ako spoluriešitelia. Riešiteľská kapacita na projektoch z obidvoch agentúr je takto naplnená na 100%. Vzhľadom na to, že základnou povinnosťou každého vedeckého pracovníka je viesť alebo podieľať sa na riešení projektov financovaných predovšetkým z domácich zdrojov (VEGA, APVV) nepotrebujeme vypracovať strategický plán na ich získavanie.

6. Manažment ústavu
Po reorganizácii ÚZ SAV v rámci v. v. i. je ústav zložený z piatich oddelení, ktoré sa zaoberajú rôznymi aspektami štúdia ekológie, fyziológie, parazitológie, biochémie, genetiky a molekulárnej biológie na rôznych druhoch bezstavovcov a stavovcov.

7. Nakladanie s duševným vlastníctvom
Patent podaný v roku 2016 pod číslom PCT/SG2016/050278 s názvom „Novel thrombin inhibitors“ bol zaregistovaný v roku 2022 aj pre krajiny India a Čína. Pôvodcami projektu sú aj dvaja pracovníci Ústavu zoológie SAV: Kazimírová Mária, Roller Ladislav. Spoluvlastníkom patentu je Ústav zoológie SAV.

8. Financovanie a riadenie výskumných infraštruktúr
Vedenie ústavu spolu s VR uskutočňuje pravidelný audit využitia nových prístrojov a priebežne odstraňuje zistené nedostatky. Niektoré prístroje pravidelne používajú aj kolegovia z iných ústavov SAV alebo univerzít. Na našej www stránke sme zverejnili informácie o možnom použití významných prístrojov pre vonkajších záujemcov zo SAV aj ostatných vedeckých pracovísk.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

Vedenie ÚZ SAV vložilo veľké množstvo času a energie pre úspešné rozvíjanie všetkých vedeckých odvetví, ktoré sa na tomto pracovisku riešia. Za najdôležitejšie považujeme získavanie nových motivovaných a produktívnych pracovníkov, ktorí sú schopní obstáť aj v medzinárodnej konkurencii. Získavanie domácich a zahraničných projektov ako aj výchova študentov a doktorandov predstavuje samozrejmú a nevyhnutnú súčasť práce vedeckých pracovníkov na ÚZ SAV. Pre normálny rozvoj pracovísk na SAV je nutné venovať prevažnú väčšinu času na tvorivú prácu, preto žiadame zredukovať úplne zbytočnú a nezmyselnú byrokraciu, ktorá nás veľmi obmedzuje.

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: Prírodovedecká fakulta UK
Oblasť spolupráce: prednášky, výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2010
Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave
Oblasť spolupráce: Výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2018
Zhodnotenie:

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: Biomedicínske centrum SAV, v. v. i.
Oblasť spolupráce: Výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2018
Zhodnotenie:

Názov organizácie: Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Oblasť spolupráce: Výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2018
Zhodnotenie:

Názov organizácie: Parazitologický ústav SAV, v. v. i.
Oblasť spolupráce: Výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2018
Zhodnotenie:

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

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: Posúdenie vplyvu revitalizačných opatrení na základe štruktúry spoločenstiev bentických bezstavovcov pre projekt zameraný na obnovu a manažment dunajských lužných biotopoov
Zadávateľ výskumného kontraktu: VÚVH v Bratislave
Začiatok spolupráce: 2018
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 0

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

1. Sledovanie vodnej fauny - skupiny Cladocera a Copepoda na výskumných plochách v zmysle špecifikácie pre výmenu dát medzi SR a MR - terénny výskum na MP6, MP9, MP10, MP14, MP18, MP23 (Dunajské Luhy)
2. Odporúčania pre manažment trávnatých plôch s ohľadom na faunu bezstavovcov. Návrhy opatrení na podporu biodiverzity bezstavovcov (podpora hniezdnych možností pre samotárske včely a kutavky, zimovísk a úkrytov pre hmyz a pod.)
3. V rámci výskumu kliešťami prenášaných patogénov pracovníci ústavu ponúkajú službu pre verejnosť, ktorá spočíva v diagnostike pricicaných kliešťov na prítomnosť patogénov, konkrétne: borélií, anaplaziem, ricketsií a babézií.

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
RNDr. Alžbeta Darolová, CSc.	Koordinačná rada pre monitoring vtákov pri Štátnej ochrane prírody	člen Koordinačnej rady
Ing. Zbyšek Šustek, CSc.	Poradný zbor Vrchnej riaditeľky emisného odboru NBS pre stanovovanie námetov pamätných mincí	člen
	Nákupná komisia NBS Múzeum mincí a medailí	člen

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

Názov expertízy: Posudok knihy navrhnutej na cenu Literárneho fondu
Adresát expertízy: Literárny fond
Spracoval: RNDr. Alžbeta Darolová, CSc.
Stručný opis: Hodnotenie vhodnosti ornitologickej knihy pre udelenie ceny Literárneho fondu.

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

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	6	TV	4
rozhlas	5	internet	7	exkurzie	1
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
Zoológia 2022 - vedecký kongres	domáca	Smolenice	16.11.-19.11.2022	76
VI. Labudove dni	medzinárodná	Smolenice	04.04.-06.04.2022	49

9.3. Účasť na výstavách

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
Roller Ladislav	0	1	0
Vidlička Ľubomír	0	1	0
Spolu	0	2	0

9.5. Členstvo v redakčných radách časopisov

RNDr. Alžbeta Darolová, CSc.

Tichodroma (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Ticks and Tick Borne Diseases (funkcia: section editor)

RNDr. Stanislav Kalúz, CSc.

Entomofauna Carpathica (funkcia: člen)
Folia Faunistica Slovaca (funkcia: člen)

RNDr. Mária Kazimírová, CSc.

Biologia (funkcia: managing editor)
Frontiers in Cellular and Infection Microbiology (funkcia: člen redakčnej rady)
Parasitologia (funkcia: člen redakčnej rady)
Pathogens (funkcia: člen redakčnej rady)
Persian Journal of Acarology (funkcia: section editor)

RNDr. Tomáš Navara, PhD.

Zborník SNM v Martine - Kmetianum (funkcia: člen)

prof. PaedDr. Pavol Prokop, DrSc.

Biologia (funkcia: associate editor)
Educational Sciences: Theory & Practise (funkcia: člen)
Eurasia Journal of Mathematics, Science and Technology Education (funkcia: člen)
European Journal of Ecology (funkcia: člen)
Journal of Baltic Science Education (funkcia: člen)
The Journal of General Psychology (funkcia: člen)

Ing. Ladislav Roller, PhD.

Entomofauna Carpathica (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Entomofauna Carpathica (funkcia: člen redakčnej rady)

Ing. Zbyšek Šustek, CSc.

Biologia (funkcia: associate editor)
Elytron (funkcia: člen)
Oltenia, Studii şi Comunicări, Ştiinţele Naturii (funkcia: člen)

Mgr. Radovan Václav, PhD.

Biologia (funkcia: člen Editorial Board)

doc. RNDr. Ľubomír Vidlička, CSc.

Acta Rerum Naturalium Musei Nationalis Slovaci (funkcia: člen)
Annotationes zoologicae et botanicae Musei Slovaci (funkcia: člen)
Entomofauna Carpathica (funkcia: člen)
Zootaxa (funkcia: editor)

RNDr. Dušan Žitňan, DrSc.

General and Comparative Endocrinology (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Alžbeta Darolová, CSc.

Slovenská ornitologická spoločnosť/Birdlife (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

MVDr. Yuliya Didyk, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Michal Chvostáč, PhD.

Slovenská parazitologická spoločnosť (funkcia: člen)

RNDr. Stanislav Kalúz, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Mária Kazimírová, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)
Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Igor Kokavec, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Krištofík, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Barbara Mangová, PhD.

Slovenská arachnologická spoločnosť - SARAS (funkcia: člen)
Slovenská parazitologická spoločnosť (funkcia: člen)
Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

Mgr. Veronika Michalková, Ph.D.

Entomologická spoločnosť (funkcia: člen)

RNDr. Tomáš Navara, PhD.

Slovenská limnologická spoločnosť (funkcia: člen)

Ing. Ladislav Roller, PhD.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Diana Selyemová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Michal Stanko, DrSc.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen výboru)
Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Takáč, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Ľubomír Vidlička, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Dušan Žitňan, DrSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

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

a) vedecko-organizačné aktivity

V roku 2022 sa Ústav zoológie SAV, v. v. i. zapojil do pomoci ukrajinským vedcom, ktorí boli nútení odísť z Ukrajiny. Ústav zamestnal akarologičku Mgr. Olhu Zhovnerchuk, PhD., ktorá získala Štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine.

b) popularizačné aktivity

Zážitkové laboratórium pre popularizačné aktivity
(Grant z výzvy: Vyzvanie predsedu vlády Slovenskej republiky na predkladanie žiadostí o poskytnutie dotácie v oblasti vedy a inovácii)

Cieľom je prispieť k popularizácii vedy a k zvýšeniu záujmu o štúdium prírodných vied zriadením zážitkového laboratória, kde budú návštevníci pokusy nielen pozorovať, ale si ich aj aktívne vyskúšajú. V súčasnosti sa totiž vedecko-popularizačné aktivity sústredia najmä na prednášky pre verejnosť, avšak priama skúsenosť z laboratória je pre bežného občana takmer nedostupná. Podobne, výučba biológie sa nesie predovšetkým v teoretickej rovine a laboratórna prax je obmedzená na cvičenia v školských laboratóriách. Väčšina ľudí tak nikdy nezažije reálnu vedeckú skúsenosť. Výskumné ústavy zo Slovenskej akadémie vied (SAV) síce poskytujú prax pre vybraných študentov, tá je však viac-menej limitovaná na diplomové a dizertačné práce. Navyše, sledovanie výskumu v klasickom laboratóriu SAV je pre bežného človeka zväčša neintuitívne a bez hlbších znalostí problematiky preto fádne až nezaujímavé. Napríklad, práca s DNA síce znie na prvý pohľad atraktívne, v praxi však ide najmä o repetitívne práce ako pipetovanie, centrifugovanie roztokov a podobne. Z našich skúseností takéto činnosti bežného návštevníka zaujmú len zriedkavo. Z predchádzajúcich popularizačných aktivít vidíme, že verejnosť i študenti preferujú jednoduché prístroje, kde môžu pokus sledovať pokus od začiatku do konca a intuitívne vyhodnotiť výsledky. Naším zámerom je preto vytvoriť práve takýto popularizačno-náučný priestor, teda zážitkové laboratórium pre žiakov, študentov a širokú verejnosť.
(Zmluva o poskytnutí dotácie z rozpočtovej rezervy predsedu vlády SR v oblasti vedy a inovácií - č. 53181003)

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		14356
z toho	knihy a zviazané periodiká	13957
	audiovizuálne dokumenty	6
	elektronické dokumenty (vrátane digitálnych)	44
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	1901
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		23
z toho zahraničné periodiká		21
Ročný prírastok knižničných jednotiek		46
v tom	kúpou	0
	darom	46
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		13957

*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)		24
v tom z r. 1	prezenčné výpožičky	24
	absenčné výpožičky	0
v tom z r. 1	odborná literatúra pre dospelých	0
	výpožičky periodík	24
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		2
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	47
Návštevníci knižnice spolu (bez návštevníkov podujatí)	10

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

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. Ladislav Roller, PhD.

- Komisia SAV pre zahraničné styky (člen)

Mgr. Peter Vršanský, PhD.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen komisie)

RNDr. Dušan Žitňan, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

11.4. Členstvo v orgánoch VEGA

doc. Ing. Ladislav Hamerlík, PhD.

- Komisia č. 4 pre biologické vedy (člen)

prof. PaedDr. Pavol Prokop, DrSc.

- Komisia VEGA č. 8 pre pôdohospodárske, veterinárske a drevárske vedy (člen)

Ing. Ladislav Roller, PhD.

- Komisia č. 8 pre pôdohospodárske, veterinárske a drevárske vedy (člen)

doc. RNDr. Ľubomír Vidlička, CSc.

- Komisia č. 4 pre biologické vedy (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	1601115	1276266	151736	171707	
z toho: mzdy (610)	863335	769609	40012	53714	
vedecká výchova štipendiá (640)	61112	61112			
poistné a príspevok do poisťovní (620)	302737	268870	12341	21527	
tovary a služby (630)	317717	157556	63756	96405	
transfery partnerom projektov (640)	35628		35628		
2. Kapitálové výdavky	9500	9500		612	
z toho: obstarávanie kapitálových aktív	9500				
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)	1289766	9500	769609	268670	
z toho: VEGA	55742	9500			
MVTS výskumné projekty	8080				
MVTS podpora	2500				
SASPRO/MOREPRO	65646		28289	9957	
Vydávanie časopisov	7371				
Vedecká výchova (štipendiá)	61112				
OTAS (630)	160196				
2. ŠF EÚ vr. fin. zo ŠR	173255		50265	16488	
3. medzinárodné grantové projekty					
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	193836		55912	17940	
z toho: APVV	150836		39343	12109	
podpora z kapitoly MŠVVaŠ SR (stimuly)	43000		16569	5831	
5. ostatné zdroje	68345		3449	5039	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	39856		3449	5039	

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

Ústav zoológie SAV uplatňuje politiku rodovej rovnosti a nediskriminuje svojich zamestnancov na základe pohlavia, národnosti, rasy alebo sexuálnej orientácie. V rámci tohto otvoreného prístupu aktívne spolupracujeme, zamestnávame alebo školíme množstvo vedcov a študentov z mnohých krajín Európy, Ázie, USA a Afriky. Jedinými kritériami hodnotenia zamestnancov a členov tímu sú produktivita, kreativita, odbornosť, praktické zručnosti a motivácia učiť sa a vyvíjať nové techniky, ktoré môžu priniesť zaujímavé a originálne údaje. Podporujeme tiež rovnosť a schopnosť komunikovať, spolupracovať, pomáhať a zdieľať vedomosti medzi členmi všetkých oddelení.

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	9	5	4	3	2	1
2. Projekty APVV	3	2	1	1	1	0
3. Projekty EŠIF/OP ŠF	0	0	0	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	2	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	0	0	0	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	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	0	0	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	0	0	2	2	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	0	0	0	0
7. Bilaterálne projekty ostatné	0	0	0	0	0	0
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	1	0	1	1	1	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	1	0	1	0	0	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.

15. Iné významné činnosti organizácie SAV

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

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Daubnerová Ivana
Nature Index publikácie
Oceňovateľ: Predsedníctvo SAV

Kazimírová Mária
Špičková publikácia SAV - Publikácie s mimoriadnym počtom citácií
Oceňovateľ: Predsedníctvo SAV
Opis: Ocenená publikácia: Rizzoli A, Silaghi C, Obiegala A, Rudolf I, Hubálek Z, Földvári G, Plantard O, Vayssier-Taussat M, Bonnet S, Špitalská E, Kazimírová M (2014) Ixodes ricinus and its transmitted pathogens in urban and peri-urban areas in Europe: new hazards and relevance for public health. Frontiers in Public Health 2:251. doi:10.3389/fpubh.2014.00251*

16.1.2. Iné domáce ocenenia

Prokop Pavol
Vedec roka SR 2021
Oceňovateľ: Centrum vedecko-technických informácií SR (CVTI SR), Slovenská akadémia vied (SAV) a Zväz slovenských vedeckotechnických spoločností (ZSVTS).
Opis: Ocenenie za najlepšie výsledky vo vede a výskume na Slovensku - 25. ročník

16.2. Medzinárodné ocenenia

Roller Ladislav
Cena poroty za encyklopedii přírodovědnou
Oceňovateľ: Jednota tlumočníků a překladatelů (JTP)
Opis: za publikáciu Macek J., Roller, L. a kol. 2020. Blanokřídlí České a Slovenské republiky II. Širokopasí vydanou Nakladatelstvím Academia, Praha (ČR)

Šujanová Alžbeta
Druhé miesto za najlepšiu PhD. prednášku
Oceňovateľ: Česká parazitologická spoločnosť
Opis: Prednáška bola prezentovaná na XIV. Českých a slovenských parazitologických dňoch. Názov prednášky: Fylogenetická a ekologická diverzita SYAT línií rodu Haemoproteus u penice čiernohlavej.

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)

18. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval:

doc. RNDr. Ľubomír Vidlička, CSc., 02/5930 2640

Schválila vedecká rada Ústavu zoológie SAV, v. v. i. dňa 30.1.2023

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
RNDr. Dušan Žitňan, DrSc.	Ing. Ladislav Roller, 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.	Prof. RNDr. Oto Majzlan, CSc.	10	0.10
2.	prof. PaedDr. Pavol Prokop, DrSc.	50	0.50
3.	doc. RNDr. Michal Stanko, DrSc.	30	0.30
4.	RNDr. Dušan Žitňan, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	RNDr. Alžbeta Darolová, CSc.	100	1.00
2.	Mgr. Ivana Daubnerová, PhD.	100	1.00
3.	MVDr. Markéta Derdáková, PhD.	20	0.20
4.	Mgr. Martina Gáliková, PhD.	100	1.00
5.	doc. Ing. Ladislav Hamerlík, PhD.	20	0.20
6.	RNDr. Mária Kazimírová, CSc.	100	1.00
7.	Mgr. Peter Klepsatel, PhD.	100	1.00
8.	RNDr. Juraj Kočí, PhD.	100	1.00
9.	Mgr. Jana Královičová, PhD.	50	0.50
10.	RNDr. Ján Krištofík, CSc.	50	0.52
11.	RNDr. Peter Mašán, PhD.	100	1.00
12.	Mgr. Veronika Michalková, Ph.D.	100	1.00
13.	Ing. Ladislav Roller, PhD.	100	1.00
14.	Mgr. Veronika Rusňáková Tarageľová, PhD.	100	1.00
15.	RNDr. Mirko Slovák, CSc.	100	1.00
16.	Ing. Zbyšek Šustek, CSc.	50	0.50
17.	RNDr. Peter Takáč, CSc.	20	0.20
18.	Mgr. Radovan Václav, PhD.	100	1.00
19.	doc. RNDr. Ľubomír Vidlička, CSc.	100	1.00
20.	Mgr. Peter Vršanský, PhD.	40	0.40
Vedeckí pracovníci			
1.	MVDr. Yuliya Didyk, PhD.	100	1.00
2.	Mgr. Michal Chvostáč, PhD.	100	1.00

3.	Mgr. Ján Kočišek, PhD.	100	1.00
4.	Mgr. Igor Kokavec, PhD.	100	1.00
5.	Mgr. Pavol Littera, PhD.	50	0.50
6.	Mgr. Barbara Mangová, PhD.	100	1.00
7.	RNDr. Tomáš Navara, PhD.	100	1.00
8.	Ing. Tomáš Olšovský, PhD.	50	0.50
9.	Mgr. Emanuel Procházka, PhD.	100	1.00
10.	Mgr. Diana Selyemová, PhD.	100	1.00
11.	Mgr. Marek Semelbauer, PhD.	100	1.00
12.	RNDr. Daniel Sojka, PhD.	50	0.29
13.	Mgr. Mário Šereš, PhD.	25	0.25
14.	Mgr. Olha Zhovnerchuk, PhD.	100	0.33
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Elena Bitterová	100	1.00
2.	Ing. Martin Česánek	100	1.00
3.	Mgr. Zuzana Čužiová	50	0.50
4.	Mgr. Vanda Klöcklerová	100	0.33
5.	Mgr. Matej Medla	100	1.00
6.	Mgr. Lucia Pavlíková, PhD.	25	0.25
7.	Mgr. Alžbeta Šujanová	100	0.33
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc., Ing. Mária Lindorová	20	0.20
2.	Mgr. Dagmar Práznovská	100	1.00
3.	Ing. Danka Sitarčíková	100	1.00
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	150	1.50
2.	Lýdia Drinková	100	1.00
3.	Daniel Kosa	100	1.00
4.	Jana Kušnírová	100	1.00
5.	Eva Vráblová	100	1.00
Ostatní pracovníci			
1.	Pavol Haris	100	1.00
2.	Zuzana Pelikánová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Stanislav Kalúz, CSc.	31.3.2022	0.20
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Veronika Machová	31.8.2022	0.70

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Vanda Klöcklerová	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Matej Medla	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Peter Pecina	Prírodovedecká fakulta UK	4.2.5 zoológia
4.	Mgr. Ján Samay	Prírodovedecká fakulta UK	1536 biológia
5.	Mgr. Hemen Sendi	Prírodovedecká fakulta UK	1536 biológia
6.	Mgr. Alžbeta Šujanová	Prírodovedecká fakulta UK	4.2.5 zoológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	MVDr. Lucia Anettová	Prírodovedecká fakulta UK	4.2.5 zoológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: UNESCO

1.) Evolúcia a ochrana veľkoplošných primárnych ekosystémov (projekt AMBA) *(Amba project)*

Zodpovedný riešiteľ:	Peter Vršanský
Zodpovedný riešiteľ v organizácii SAV:	Peter Vršanský
Trvanie projektu:	1.1.1998 /
Evidenčné číslo projektu:	NA
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav vied o Zemi SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Unesco: 50000 € Podpora medzinárodnej spolupráce z národných zdrojov: 2500 €

Programy: Iné

2.) Vínna muška Drosophila melanogaster ako model pre štúdium obezity spojenej s nedostatkom pohlavných hormónov *(Fruit fly Drosophila melanogaster as a model to study the anti-obesity role of gonad-derived steroid hormones)*

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	20.5.2019 / 19.5.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 8080 €

Programy: LIFE

3.) *Developing best practices in butterfly conservation in Central and Eastern Europe*

Zodpovedný riešiteľ:	Dušan Žitňan
Trvanie projektu:	1.9.2022 / 31.3.2029
Evidenčné číslo projektu:	101074487
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Bratislavské regionálne ochranárske združenie
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- EU: 30000 €

Domáce projekty

Programy: VEGA

1.) Reprodukčné stratégie vo vzťahu k akustickým parametrom a migračným stratégiám: štúdie na trsteniarikovi bahennom (Acrocephalus scirpaceus) a strakošovi kolesárovi (Lanius minor). *(Reproductive strategies and relation to acoustics and migration: case studies on Reed Warbler and Lesser Grey Shrike)*

Zodpovedný riešiteľ:	Alžbeta Darolová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0065/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 5594 €

2.) Identifikácia adaptačných mechanizmov u kliešťa Ixodes ricinus počas cicania na úrovni individuálnych orgánov a identifikácia nových biomarkerov využiteľných pri príprave vakcín proti zoonózam prenášaných kliešťom Ixodes ricinus

Zodpovedný riešiteľ:	Markéta Derdáková
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	1/0404/19
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3156 €

3.) Význam jašteríc, ježov a ixodových kliešťov v ekológii nebezpečných, vektormi prenášaných bakteriálnych a protozoárnych patogénov v urbánnych a suburbánnych podmienkach Slovenska *(The role of lizards, hedgehogs and hard ticks in the ecology of dangerous bacterial and protozoan vector borne pathogens in urban and suburban conditions of Slovakia)*

Zodpovedný riešiteľ:	Yuliya Didyk
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0004/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3157 €

Dosiahnuté výsledky:
Celkovo za 2022 rok bolo nazberaných 31 jašteríc, z nich 5 kliešov a 4 ks tkanív:
1. Pri Dunaji, BA, Chatam Sofer *Podarcis muralis* – 12 ks (2 klieste / 4 ks tkanív)
2. Stupava, Vrchná hora, *Lacerta viridis* – 11 ks (3 kliešte)
3. Veľkolélsky ostrov, *Lacerta agilis* – 8 ks (0/0)

Mangová, B., Didyk, Yu. M. (2022). An annotated checklist of Oribatid mites (Acari: Oribatida) of Slovakia – Addendum. Entomofauna carpathica, 34(1): 172-188.

Mangová, B., Semelbauer, M., Didyk, Yu. M., Lučeničová, T., Országhová, Z. (2022). Oribatid communities (Acari: Oribatida) associated with bird's nests -microhabitats in urban environment. Polish Journal of Entomology, 91(2): 68–83.

Didyk, Yu. M., Mangová, B., Derdáková, M. Preliminary data on the spread of tick-borne pathogens by hedgehogs in Slovakia // Book of abstracts XIV Czech and Slovak Parasitological Days 2022 (9-13 May 2022, Hotel Medlov, Czech Republic). – Czech Republic, 2022. P.55.

Rusňáková Tarageľová, V., Selyemová, D., Koči, J., Chvostáč, M., Vaculová, T., Mangová, B., Didyk, Yu. M., Čužiová, Z., Václav, R., Derdáková, M. Two decades of research on B. burgdorferi s.l. in questing Ixodes ricinus ticks in Slovakia at the Institute of Zoology SAS // Abstract Book from Scientific Conference "V. Labuda´s days" (4. - 6. April 2022, Smolenice, Slovak Republic). – Bratislava, 2022. P. 35.

Mangová, B., Didyk, Yu. M., Chvostáč, M., Selyemová, D., Rusňáková Tarageľová, V., Derdáková, M., Ďurovská, J. Tick-borne agents in human fed ticks from Slovakia during 2014-2021 // Abstract Book from Scientific Conference "V. Labuda´s days" (4. - 6. April 2022, Smolenice, Slovak Republic). – Bratislava, 2022. P. 41.

4.) Metabolické účinky pohlavných hormónov hmyzu *(Metabolic functions of insect gonad-derived hormones)*

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0141/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7169 €

5.) Bentický život v krasových prameňoch: Ekologická izolovanosť pramenného habitatu, funkčné zloženie a fylogenetická diverzita bentických organizmov

Zodpovedný riešiteľ:	Igor Kokavec
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	1/0127/20
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1870 €

6.) Klimatická zmena a vodné nádrže – efekt antropických vplyvov na teplotný režim tokov a diverzitu bentických bezstavovcov

Zodpovedný riešiteľ:	Igor Kokavec
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0063/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4126 €

7.) Mezostigmátne roztoče so vzťahom k podkôrnym habitatom a drevokaznému hmyzu na Slovensku – taxonómia, ekológia a chorológia druhov čeľade Digamasellidae (Acari: Parasitiformes). *(Mesostigmatic mites associated with subcorticolous habitats and wood-destroying insects in Slovakia – taxonomy, ecology and chorology of the species of Digamasellidae (Acari: Parasitiformes).)*

Zodpovedný riešiteľ:	Peter Mašán
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0007/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4436 €

8.) Štúdium evolúcie mitochondriálneho genómu pomocou kvasinky Kluyveromyces lactis *(Study of mitochondrial genome evolution using yeast Kluyveromyces lactis)*

Zodpovedný riešiteľ:	Emanuel Procházka
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0151/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4918 €

9.) Výskyt bežných ako aj netypických druhov kliešťov na Slovensku a ich úloha v cirkulácii kliešťami prenášaných patogénov. *(The occurrence of common as well as atypical tick species in Slovakia, and their role in the circulation of tick-borne agents.)*

Zodpovedný riešiteľ:	Veronika Rusňáková Tarageľová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0137/21

Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7277 €

10.) Zraniteľnosť vybraných prírodne a antropogénne narušených ekosystémov vo vzťahu k prebiehajúcej zmene klímy

Zodpovedný riešiteľ:	Zbyšek Šustek
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	1/0392/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Lesnícka fakulta TUZVO
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 1056 €

11.) Význam interakcií medzi ektoparazitmi pre prenos vektormi-prenášaných patogénov *(The role of ectoparasite-ectoparasite interactions in the transmission of vector-borne parasites)*

Zodpovedný riešiteľ:	Radovan Václav
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0023/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	1 - Španielsko: 1
Čerpané financie:	VEGA: 5535 €

12.) Invázny švábik Planuncus tingitanus (Blattaria) na Slovensku - šírenie, ekológia a etológia. *(Invasive cockroach Planuncus tingitanus (Blattaria) in Slovakia - expansion of species, ecology and ethology.)*

Zodpovedný riešiteľ:	Ľubomír Vidlička
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0074/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 7448 €

Programy: APVV

13.) Neuroendokrinná regulácia energetického metabolizmu v modeli Drosophila melanogaster *(Neuroendocrine regulation of energy metabolism in the Drosophila melanogaster model)*

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV 0196
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 52588 €

14.) Expresia a funkcia calcitonínu podobných peptidov a ich receptorov u kliešťov *(Expression and function of calcitonin-like peptides and their receptors in ticks)*

Zodpovedný riešiteľ:	Ladislav Roller
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0431
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 29641 €

15.) Ekológia pohlavného výberu *(Ecology of sexual selection)*

Zodpovedný riešiteľ:	Ľubomír Vidlička
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0081
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 9775 €

16.) Funkčná analýza a produkcia bioaktívnych látok hmyzu a kliešťov

Zodpovedný riešiteľ:	Dušan Žitňan
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0201
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 58832 €

Programy: Štrukturálne fondy EÚ Bratislavský kraj

17.) DNA barcoding Slovenska (SK-BOL), súčasť medzinárodnej iniciatívy International Barcode of Life (iBOL) *(DNA barcoding of Slovakia (SK-BOL), as a part of international initiative International Barcode of Life (iBOL))*

Zodpovedný riešiteľ:	Dušan Žitňan
Trvanie projektu:	1.3.2021 / 30.6.2023
Evidenčné číslo projektu:	ITMS2014+: 313021W683
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenské národné múzeum, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- EŠIF/OP ŠF: 143115 €

Dosiahnuté výsledky:

S cieľom získať DNA sekvencie 300 druhov bezstavovcov a nimi prenášaných mikroorganizmov žijúcich na Slovensku (Aktivita 2) boli v roku 2022 odchytávané individuálne alebo s pomocou odberových zariadení (Malaiseho pasce, zemné pasce) rôzne druhy bezstavovcov. Tieto boli triedené, často z veľmi početných zberov, a následne identifikované do druhov špecialistami na jednotlivé skupiny – členmi riešiteľského kolektívu. Celkovo bolo prezretých niekoľko 100 tisíc jedincov bezstavovcov, z ktorých boli vytriedení a identifikovaní zástupcovia 310 druhov. Vybrané jedince boli preparované alebo uchovávané tak aby boli vhodné pre barcoding. U niektorých denných motýľov a hrubopásych blanokrídlovcov (asi 10 druhov) boli nazbierané larvy a tie boli dochované do dospelého štádia. Pre získanie sekvencií z kliešťov (Ixodidae) a nimi prenášaných patogénov (*Borrelia*, *Anaplasma*, *Babesia*, *Theileria*) bolo vyšetrených približne 350 kliešťov a 70 vzoriek z poľovnej zveri. Z kliešťov odchytených z prírody bolo získaných 50 kolónií mikroorganizmov. Taktiež boli založené kultúry niektorých druhov spirochét rodu Borrelia. Barcoding identifikovaných druhov bezstavovcov a mikroorganizmov je v rôznom štádiu spracovania, od izolácie DNA, cez PCR, po DNA sekvencie a fotodokumentáciu reprezentatívnych jedincov. Spolu boli získané DNA sekvencie úseku génu COI-5P pre barcoding u 270 druhov a ďalších 40 bolo vybraných pre analýzu DNA v nasledovnom období riešenia projektu. Kompletná dokumentácia, teda získané sekvencia DNA, informácia o barcodovanom jedincovi a jeho fotografie, bola vložená do databázy BOLD u 80 druhov hmyzu. Počas roku 2022 sme dosiahli niekoľko unikátnych výsledkov. Boli získané DNA sekvencie larvy a dospelého jedinca pre vedu neznámeho druhu piliarky (Hymenoptera, Tenthredinidae), ktorý bol objavený v Tematínskych kopcoch. Následne bol pripravený manuskript publikácie s opisom tohto druhu. Jeden druh kliešťa (Ixodidae), jeden druh sieťokrídlovca (Neuroptera), jeden druh ucholaka (Dermaptera), dva druhy dvojkrídlovcov (Diptera) a sedem druhov blanokrídlovcov (Hymenoptera) bolo nájdených na Slovensku po prvýkrát a pre väčšinu z nich boli získané ich unikátne DNA sekvencie. Členovia riešiteľského kolektívu pripravili štyri publikácie, ktoré boli zverejnené v časopise Entomofauna Carpathica (evidovaný v iných databázach ako WOS Core Collection a Scopus) s celkovou hodnotou merateľného ukazovateľa 2.

Programy: SASPRO

18.) Neuropeptidové regulátory: odhaľovanie tajomstiev kontroly neurónov a správania tse-tse múch *(Neuropeptide regulators: revealing the secrets of neuronal control and behaviour of tsetse flies)*

Zodpovedný riešiteľ:	Veronika Michalková
Trvanie projektu:	1.2.2022 / 31.1.2025
Evidenčné číslo projektu:	1175/01/02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	EU: 30139 € Úrad SAV + ÚZ SAV: 37422 €

Programy: MoRePro

19.) Hormonálna regulácia metabolizmu drozdofily pomocou steroidov produkovaných v gonádach a s nimi interagujúcich peptidov *(Hormonal regulation of Drosophila metabolism via gonad-derived steroids and interacting peptides)*

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	MoRePro: 28224 €

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

AAB Vedecké monografie vydané v domácich vydavateľstvách

AAB01 STANKO, Michal - BONA, Martin - VÍCHOVÁ, Bronislava. Kliešte a ich epidemiologický význam v mestách : (na príklade košickej aglomerácie). Zdeněk Hubálek, Libor Grubhoffer (rec.). 1. vyd. Bratislava : VEDA, 2021. 197 s. ISBN 978-80-224-1910-9

ABA Štúdie charakteru vedeckej monografie v časopisoch a zborníkoch vydané v zahraničných vydavateľstvách

ABA01 HAMERLÍK, Ladislav - SILVA, Felipe Leno - MASSAFERRO, J.**. An illustrated guide of subfossil Chironomidae (Insecta: : Diptera) from waterbodies of Central America and the Yucatan Peninsula. In Journal of Paleolimnology, 2022, vol. 67, pp. 201–258. (2021: 2.265 - IF, Q3 - JCR, 0.667 - SJR, Q2 - SJR). ISSN 0921-2728. Dostupné na: https://doi.org/10.1007/s10933-021-00225-6

ABA02 MAŠÁN, Peter**. The family Melicharidae (Acari, Mesostigmata) in Slovakia, with description of new species, annotated faunal synopsis and identification keys of species from Europe. In Zootaxa : Monograph _section, 2022, vol. 5172, no. 1, p. 1-449. (2021: 1.026 - IF, Q3 - JCR, 0.557 - SJR, Q2 - SJR). ISSN 1175-5334. Dostupné na: https://doi.org/10.11646/zootaxa.5172.1.1

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 ČERBA, Dubravka - HAMERLÍK, Ladislav. Fountains—Overlooked Small Water Bodies in the Urban Areas. In Small Water Bodies of the Western Balkans. [1. ed.]. - Cham : Springer Nature, 2022, pp. 73-91. ISBN 978-3-030-86478-1. ISSN 2364-6934. Dostupné na: https://doi.org/10.1007/978-3-030-86478-1_4

ABC02 STADLER, Frank - TAKÁČ, Peter. Medicinal Maggot Production. In A Complete Guide to Maggot Therapy : Clinical Practice, Therapeutic Principles, Production, Distribution, and Ethics. [1. ed.]. - Cambridge : Open Book Publishers, 2022, p. 289-330. ISBN 978-1-80064-730-5. Dostupné na: https://doi.org/10.11647/obp.0300.14

ABC03 VALERA, Francisco - VEIGA, Jesús - MARTINEZ, Teresa - VÁCLAV, Radovan. The effect of cavity type on breeding performance in a secondary cavity-nesting avian species: short-term studies are prone to produce misleading inference. In La Estación Experimental de Zonas Áridas (1947-2022): Reconstruyendo nuestra historia reconstruimos nuestro futuro. - Madrid : Editorial CSIC, 2022, p. 339-377. ISBN 978-84-00-11072-7.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BARTÍKOVÁ, Pavlína** - SLOVÁK, Mirko - ŠTIBRÁNIOVÁ, Iveta. Impact of tick salivary gland extracts on cytotoxic activity of mouse natural killer cells. In Biologia, 2022, vol. 77, no. 6, p. 1675–1683. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00954-z (VEGA 2/0047/18 : Sledovanie vplyvu imunomodulačných látok v slinách kliešťov na vrodenú antivírusovú imunitu kože.. VEGA 2/0172/19 : Izolácia, identifikácia a charakterizácia transformujúci rastový faktor-beta 1 viažúcej molekuly v extraktoch slinných žliaz kliešťov)

ADCA02 BENOIT, Joshua B.** - LAHONDèRE, Chloé - ATTARDO, Geoffrey M. - MICHALKOVÁ, Veronika - OYEN, Kennan - XIAO, Yanyu - AKSOY, Serap. Warm Blood Meal Increases Digestion Rate and Milk Protein Production to Maximize Reproductive Output for the Tsetse Fly, Glossina morsitans. In Insects, 2022, vol. 13, no. 11, article no. 997, 11 pp. (2021: 3.139 - IF, Q1 - JCR, 0.707 - SJR, Q1 - SJR). ISSN 2075-4450. Dostupné na: https://doi.org/10.3390/insects13110997

ADCA03 BOGUSCH, Petr** - AMIRMOHAMMEDI, Fereshteh - BENDA, Daniel - ROLLER, Ladislav - SAKAKI, Samane - PETR, Libor. Difference in pollen specialisation in spring bees Andrena vaga (Andrenidae) and Colletes cunicularius (Colletidae) during their nesting season. In Arthropod-Plant Interactions, 2022, vol. 16, iss. 5, pp. 459-467. (2021: 2.409 - IF, Q2 - JCR, 0.634 - SJR, Q1 - SJR). ISSN 1872-8855. Dostupné na: https://doi.org/10.1007/s11829-022-09910-3

ADCA04 CÍBIK, Jakub** - BERACKO, Pavel - BULÁNKOVÁ, Eva - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana - GREGUŠOVÁ, Katka - KODADA, Ján - KRNO, Iľja - MIŠÍKOVÁ ELEXOVÁ, Emília - NAVARA, Tomáš - ROGÁNSKA, Alexandra - DERKA, Tomáš. Are springs hotspots of benthic invertebrate diversity? Biodiversity and conservation priority of rheocrene springs in the karst landscape. In Aquatic Conservation: Marine and Freshwater Ecosystem, 2022, vol. 32, no 5, p. 843-858. (2021: 3.254 - IF, Q1 - JCR, 0.830 - SJR, Q1 - SJR). ISSN 1052-7613. Dostupné na: https://doi.org/10.1002/aqc.3802

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ADCA16 LUO, Cihang** - BEUTEL, Rolf G. - ENGEL, Michael - LIANG, Kun - LI, Liqin - LI, Jiahao - XU, Chunpeng - VRŠANSKÝ, Peter - JARZEMBOWSKI, Edmund - WANG, Bo**. Life history and evolution of the enigmatic Cretaceous-Eocene Alienopteridae: A critical review. In Earth-Science Reviews, 2022, vol. 225, art. no. 103914. (2021: 12.038 - IF, Q1 - JCR, 3.610 - SJR, Q1 - SJR). ISSN 0012-8252. Dostupné na: https://doi.org/10.1016/j.earscirev.2021.103914 (APVV-0436-12 : Evolučné zákonitosti indikované článkonožcami a ich príbuznými // Evolúcia článkonožcov a ich príbuzných)

ADCA17 MABILLE, Dorien - DIRKX, Laura - THYS, Sofie - VERMEERSCH, Marjorie - MONTENYE, Daniel - GOVAERTS, Matthias - HENDRICKX, Sarah - TAKÁČ, Peter - VAN WEYENBERGH, Johan - PINTELON, Isabel - DELPUTTE, Peter - MAES, Louis - PÉREZ-MORGA, David - TIMMERMANS, Jean-Pierre - CALJON, Guy**. Impact of pulmonary African trypanosomes on the immunology and function of the lung. In Nature Communications, 2022, vol. 13, art. no. 7083, 18 pp. (2021: 17.694 - IF, Q1 - JCR, 4.846 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-022-34757-w

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ADCA23 PROKOP, Pavol** - ZVARÍKOVÁ, Martina - ZVARÍK, Milan - FEDOR, Peter. Cues of pregnancy decrease female physical attractiveness for males. In Current Psychology, 2022, vol. 41, iss. 2, p. 697–704. (2021: 2.387 - IF, Q3 - JCR, 0.513 - SJR, Q2 - SJR). ISSN 1046-1310. Dostupné na: https://doi.org/10.1007/s12144-020-00608-4

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ADCA27 ROLLER, Ladislav** - DAUBNEROVÁ, Ivana - MIZOGUCHI, Akira - SATAKE, Honoo - TANAKA, Yoshiaki - STANO, Matej - KĽUČÁR, Ľuboš - ŽITŇAN, Dušan. Expression analysis of peptidergic enteroendocrine cells in the silkworm Bombyx mori. In Cell and Tissue Research, 2022, vol. 389, no. 3, p. 385–407. (2021: 4.051 - IF, Q3 - JCR, 1.298 - SJR, Q1 - SJR). ISSN 0302-766X. Dostupné na: https://doi.org/10.1007/s00441-022-03666-1 (VEGA 2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov)

ADCA28 SENDI, Hemen**. Diverse Liberiblattinidae (Insecta: Blattaria) from Lebanese and North Myanmar amber document allometric modifications near lowest size limit. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, issues 1–6, p. 127–148. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR). ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0108

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ADCA30 ŠEVČÍK, Michal** - KALÚZ, Stanislav - ŠRÁMEK, Petr. Bat-Infesting Chiggers (Trombiculidae) in Indonesia: Current Review, Distribution, and Hosts with Three New Records and their Morphometric Data. In Acta Parasitologica, 2022, vol. 67, no. 2, p. 892-903. (2021: 1.534 - IF, Q2 - JCR, 0.439 - SJR, Q3 - SJR). ISSN 1230-2821. Dostupné na: https://doi.org/10.1007/s11686-022-00522-8 (VEGA 2/0074/21 : Invázny švábik Planuncus tingitanus (Blattaria) na Slovensku - šírenie, ekológia a etológia.)

ADCA31 ŠMÍDOVÁ, Lucia** - VIDLIČKA, Ľubomír - WEDMANN, Sonja. Appearance of the family Blaberidae (Insecta: Blattaria). In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, iss. 1–6, p. 71–79. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR). ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0109 (VEGA 2/0042/18 : Šváby zo svetových jantárov II. VEGA 21/0074/21 : Invázny švábik Planuncus tingitanus (Blattaria) na Slovensku – šírenie, ekológia a etológia. [Invasive cockroach Planuncus tingitanus (Blattaria) in Slovakia – expansion of species, ecology and ethology])

ADCA32 THIEBAUT, Gaëtan - MÉOT, Alain - WITT, Arnaud - PROKOP, Pavol - BONIN, Patrick**. COVID-19 and Memory: A Novel Contamination Effect in Memory. In Evolutionary Psychology, 2022, vol. 20, iss. 2, 10 pp. (2021: 1.738 - IF, Q4 - JCR, 0.537 - SJR, Q2 - SJR). ISSN 1474-7049. Dostupné na: https://doi.org/10.1177/14747049221108929

ADCA33 TOSE, Lilian V. - RAMIREZ, Cesar E. - MICHALKOVÁ, Veronika - NOUZOVÁ, Marcela - NORIEGA, Fernando G. - FERNANDEZ-LIMA, Francisco**. Coupling Stable Isotope Labeling and Liquid Chromatography-Trapped Ion Mobility Spectrometry-Time-of-Flight-Tandem Mass Spectrometry for De Novo Mosquito Ovarian Lipid Studies. In Analytical Chemistry, 2022, vol. 94, no. 16, p. 6139-6145. (2021: 8.008 - IF, Q1 - JCR, 1.791 - SJR, Q1 - SJR). ISSN 0003-2700. Dostupné na: https://doi.org/10.1021/acs.analchem.1c05090

ADCA34 VRŠANSKÝ, Peter** - POSCHMANN, Markus J. - VIDLIČKA, Ľubomír. Oligocene pseudophyllodromiin cockroach from the Enspel Fossillagerstatte in Germany. In Palaeontographica : Abteilung A - Paläozoologie Stratigraphie, 2022, vol. 321, no. 1-6, p. 149-167. (2021: 2.071 - IF, Q2 - JCR, 0.365 - SJR, Q3 - SJR). ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0110

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 BONA, Martin - BLAŇAROVÁ, Lucia - STANKO, Michal - MOŠANSKÝ, Ladislav - ČEPČEKOVÁ, Eva - VÍCHOVÁ, Bronislava**. Impact of climate factors on the seasonal activity of ticks and temporal dynamics of tick-borne pathogens in an area with a large tick species diversity in Slovakia, Central Europe. In Biologia, 2022, vol. 77, no. 6, p. 1619-1631. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00902-x (Vega č. 1/0084/18 : Genetická analýza vybraných nových a novo sa objavujúcich

patogénov so zoonotickým potenciálom u zvierat a ľud. Vega č. 2/0014/21 : Spoločenské zvieratá ako účinný indikátor cirkulácie patogénov so špecifickým dôrazom na vektormi prenášané a zoonózne druhy)

ADDA02 DIDYK, Yuliya** - MANGOVÁ, Barbara - KRALJIK, Jasna - STANKO, Michal - ŠPITÁLSKA, Eva - DERDÁKOVÁ, Markéta. Rhipicephalus sanguineus s.l. detection in the Slovak Republic. In Biologia, 2022, vol. 77, no. 6, p. 1523–1529. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00801-1 (VEGA 2/0021/21 : Diverzita vektormi prenášaných patogénnych a nepatogénnych mikroorganizmov a potenciálna terapia nimi spôsobených zoonotických ochorení)

ADDA03 HROMNÍKOVÁ, Dominika - FURKA, Daniel - FURKA, Samuel - SANTANA, Julio Ariel Duenas - RAVINGEROVÁ, Táňa - KLÖCKLEROVÁ, Vanda - ŽITŇAN, Dušan. Prevention of tick-borne diseases: challenge to recent medicine. In Biologia, 2022, vol. 77, no. 6, p. 1533–1554. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00966-9 (VEGA 2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov. APVV-16-0395 : Úloha neuropeptidov a ich receptorov pri regulácii aktivity endokrinných a reprodukčných orgánov priadky morušovej (Bombyx mori))

ADDA04 SPARAGANO, O. - FÖLDVÁRI, Gábor - DERDÁKOVÁ, Markéta - KAZIMÍROVÁ, Mária. New challenges posed by ticks and tick-borne diseases. In Biologia, 2022, vol. 77, no., p. 1497–1501. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-022-01097-5

ADDA05 STANKO, Michal** - CSANÁDY, Alexander. First records and a new tick-host association of the tick Ixodes acuminatus Neumann, 1901, in Slovakia. In Biologia, 2022, vol. 77, no. 10, p. 2915–2920. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-022-01204-6 (Vega č. 2/0014/21 : Spoločenské zvieratá ako účinný indikátor cirkulácie patogénov so špecifickým dôrazom na vektormi prenášané a zoonózne druhy. KEGA 051PU-4/2021 : Etologická ekológia živočíchov)

ADDA06 STANKO, Michal - DERDÁKOVÁ, Markéta - ŠPITÁLSKA, Eva - KAZIMÍROVÁ, Mária**. Ticks and their epidemiological role in Slovakia: from the past till present. In Biologia, 2022, vol. 77, no. 6, p. 1575-1610. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-021-00845-3 (VEGA 2/0021/21 : Diverzita vektormi prenášaných patogénnych a nepatogénnych mikroorganizmov a potenciálna terapia nimi spôsobených zoonotických ochorení. VEGA 2/0010/19 : Rickettsiae a Coxiella burnetii, bakteriálne spúšťače záhadných "ochorení.". APVV-19-0066 : Výskum hostiteľsko–parazitických, bunkovo-Rickettsiových vzťahov, monitorovaných pomocou transcriptomických a proteomických štúdií. APVV-19-0519 : Interakcia hostiteľských buniek s Coxiella burnetii: identifikácia a využitie nových terapeutických a diagnostických cieľov)

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 HAMERLÍK, Ladislav - BARTÓKOVÁ, Silvia - POTANČOK, Jakub - BITUŠÍK, Peter. Where the rare species hide: a new record of Parachironomus monochromus (van der Wulp, 1874) for Slovakia from artificial urban waterbodies : Short Communication. In CHIRONOMUS Journal of Chironomidae Research, 2022, vol.35, p. 50-53. ISSN 0172-1941. Dostupné na internete: https://www.ntnu.no/ojs/index.php/chironomus/article/view/4926/4530

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

ADFB01 BUCSEK, Karol - DE VOS, Rob. Some species of Lithosiini and Arctiini (Lepidoptera: Erebidae, Arctiinae) from Yamdena Island (Tanimbar Islands, Moluccas, Indonesia). In Entomofauna Carpathica, 2022, vol. 34, no.1, p. 1-12. ISSN 1335-1214.

ADFB02 KOKAVEC, Igor** - BARTÍK, I. Vplyv vodných elektrární na trendy kvality vody vo vybraných vodných tokoch SR z dlhodobého hľadiska = The Influence of Hydropower Plants on the Development of Water Quality of Selected Streams in the Slovak Republic in a Long-Term Perspective. In Limnologický spravodajca. - Bratislava : Slovenská limnologická spoločnosť pri SAV, 2022, roč. 16, č. 1-2, s. 22-32. ISSN 1337-2971.

ADFB03 MAJZLAN, Oto - VIDLIČKA, Ľubomír. Invázne druhy zrniarok (Coleoptera: Chrysomelidae: Bruchinae) na Slovensku. = Invasive species of seed-beetles (Coleoptera: Chrysomelidae: Bruchinae) in Slovakia. In Entomofauna Carpathica, 2022, vol. 34, no. 1, p. 31-40. ISSN 1335-1214. (VEGA 2/0074/21 : Invázny švábik Planuncus tingitanus (Blattaria) na Slovensku - šírenie, ekológia a etológia.)

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ADNB01 TULIS, Filip - SLOBODNÍK, R. - LANGRAF, Vladimír - NOGA, M. - KRUMPÁLOVÁ, Zuzana - ŠUSTEK, Zbyšek - KRIŠTÍN, Anton. Diet composition of syntopically breeding falcon species Falco vespertinus and Falco tinnunculus in south-western Slovakia : Zloženie potravy syntopicky hniezdiacich druhov sokolov Falco vespertinus a Falco tinnunculus na juhozápadnom Slovensku. In Slovak raptor journal, 2017, vol. 11, iss. 1, p. 15-30. (2016: 0.136 - SJR, Q4 - SJR). (2017 - SCOPUS). ISSN 1337-3463. Dostupné na: https://doi.org/10.1515/srj-2017-0006

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AEDB Kratšie vedecké práce alebo VŠ učebnice vydané samostatne v domácich vydavateľstvách

AEDB01 VRŠANSKÝ, Peter - KOUBOVÁ, Ivana - VRŠANSKÁ, Lucia - HINKELMAN, Jan - KÚDELA, Matúš - KÚDELOVÁ, Tatiana - LIANG, Jun-Hui - XIA, Fungyuan - LEI, Xiaojie - REN, Xiaoyin - VIDLIČKA, Ľubomír - BAO, Tong - ELLENBERGER, Sieghard - ŠMÍDOVÁ, Lucia - BARCLAY, Maxwell. Early wood-boring Mole roach reveals eusociality "missing ring". In Amba projekty. - Bratislava : AMBA, 2019, vol. 9, no. 1, 28 p.

Citácie:

1. [1.1] BEZERRA, Francisco Irineudo - DESOUZA, Og - RIBEIRO, Guilherme Cunha - MENDES, Marcio. A new primitive termite (Isoptera) from the Crato Formation, Araripe Basin, Early Cretaceous of South America. In JOURNAL OF SOUTH AMERICAN EARTH SCIENCES, 2021, vol. 109, no., pp. ISSN 0895-9811. Dostupné na: https://doi.org/10.1016/j.jsames.2021.103260., Registrované v: WOS

2. [1.1] HINKELMAN, Jan. Mongolblatta sendii sp. n. (Mesoblattinidae) from North Myanmar amber links record to Laurasian sediments. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 81-96. ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0105., Registrované v: WOS

3. [1.1] LIANG, junhui - WANG, Ying - SHIH, Chungkun - REN, Dong. Chuanblatta gen. nov. sexually dimorphic cockroaches of Raphidiomimidae (Blattaria) from the Jiulongshan Formation in China. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 3-17. ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0113., Registrované v: WOS

4. [1.1] SCHAEDEL, Mario - HOERNIG, Marie K. - HYZNY, Matus - HAUG, Joachim T. Mass occurrence of small isopodan crustaceans in 100-million-year-old amber: an extraordinary view on behaviour of extinct organisms. In PALZ, 2021, vol. 95, no. 3, pp. 429-445. ISSN 0031-0220. Dostupné na: https://doi.org/10.1007/s12542-021-00564-9., Registrované v: WOS

5. [1.1] SENDI, Hemen. Diverse Liberiblattinidae (Insecta: Blattaria) from Lebanese and North Myanmar amber document allometric modifications near lowest size limit. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 127-148.

ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0108., Registrované v: WOS
6. [1.1] SENDI, Hemen. Highly specialised basal ectobiid cockroaches (Blattaria: Blattoidea) were rare in Burmese amber. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 109-125. ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0106., Registrované v: WOS
7. [1.1] SMIDOVA, Lucia - VIDLICKA, L';ubomir - WEDMANN, Sonja. Appearance of the family Blaberidae (Insecta: Blattaria) during the Cretaceous and a review of fossils of this family. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 71-79. ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0109., Registrované v: WOS
8. [1.1] SONG, Zhenyu - XU, Chunpeng - LI, Jingxia - JARZEMBOWSKI, Edmund A. - WANG, Bo - XIAO, Chuantao. A new species of Pabuonqedidae (Blattaria: Mastotermitoidea) from mid-Cretaceous Kachin amber. In PALAEONTOGRAPHICA ABTEILUNG A-PALAOZOOLOGIE-STRATIGRAPHIE, 2021, vol. 321, no. 1-6, pp. 53-59. ISSN 0375-0442. Dostupné na: https://doi.org/10.1127/pala/2021/0111., Registrované v: WOS
9. [1.1] ZHAO, Zhipeng - SHIH, Chungkun - GAO, Taiping - REN, Dong. Termite communities and their early evolution and ecology trapped in Cretaceous Amber. In CRETACEOUS RESEARCH. ISSN 0195-6671, 2021, vol. 117, no., pp. Dostupné na: https://doi.org/10.1016/j.cretres.2020.104612., Registrované v: WOS

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 ŠUSTEK, Zbyšek. Carabid and Staphylinid communiies as indicators of changes in floodplain forests in the area affected by the Gabčíkovo project. In Slovak-Hungarian Environmental Monitoring of the Danube : Results of the Environmental Monitoring based on the "Agreement between the Government of the Slovak Republic and the Government of the Republic of Hungary concerning certain technical measures and discharges in the Danube and Mosoni branch of the Danube 1995-2005. Slovak section. - 2006, p. 175-181.

Citácie:
1. [1.1] STASIOV, Slavomir - LITAVSKY, Juraj - MAJZLAN, Oto - SVITOK, Marek - FEDOR, Peter. Influence of Selected Environmental Parameters on Rove Beetle (Coleoptera: Staphylinidae) Communities in Central European Floodplain Forests. In WETLANDS. ISSN 0277-5212, 2021, vol. 41, no. 8, pp. Dostupné na: https://doi.org/10.1007/s13157-021-01496-5., Registrované v: WOS

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 BLANK, Stephan M. - HARA, Hideho - MIKULÁS, Joszef - CSÓKA, György - CIORNEI, Constantin - CONSTANTINEANU, Raoul - CONSTANTINEANU, Irenel - ROLLER, Ladislav - ALTENHOFER, Ewald - HUFLEJT, Tomasz - VÉTEK, Gabor. East Asian pest of elms (Ulmus spp.) now invading Europe: the zigzag sawfly, Aproceros leucopoda (Hymenoptera, Argidae). In 7th International Congress of Hymenopterists : programme and Abstract List of Participants, s. 20-21.

Citácie:
1. [3.1] Fătu, A. C., Cardaş, G., Ciornei, C., & Andrei, A. M. (2021). Experimental Field Application of Beauveria bassiana (Bals.) Vuill. for Control of

the Invasive Sawfly Aproceros leucopoda Takeuki, 1939 (Hymenoptera: Argidae) in Romania Acta Zoologica Bulgarica, 72(4), 661-666 ISSN: 0324-0770

AFG02 VRŠANSKÝ, Peter - QUICKE, D.L.J., - BASIBUYUK, H. H. - FITTON, M.G. - ROSS, A. - RASNITSYN, A. P. - VIDLIČKA, Ľubomír. The oldest insect sensillae. In First Paleontological Conference, Abstracts. - Moscow, Russia, 1998, p. 44.

Citácie:

1. [1.2] TANIGUCHI, Ryo - NISHINO, Hiroshi - WATANABE, Hidehiro - YAMAMOTO, Shûhei - IBA, Yasuhiro. Reconstructing the ecology of a Cretaceous cockroach: destructive and high-resolution imaging of its micro sensory organs. In Science of Nature, 2021-10-01, 108, 5, pp. ISSN 00281042. Available on: https://doi.org/10.1007/s00114-021-01755-9., Registrované v: SCOPUS

***AFHB Abstrakty príspevkov z domácich konferencií**

AFHB01 ŠUSTEK, Zbyšek. Carabidae and Staphyliniade: a comparison of thein response to changes in hydrological regiment in flood forests. In IX. posterový deň s medzinárodnou účasťou. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra : posterový deň s medzinárodnou účasťou. 11. - Bratislava, SK : Ústav hydrológie SAV, 29. 11. 2001, p. 387-396.

Citácie:

1. [1.1] STASIOV, Slavomir - LITAVSKY, Juraj - MAJZLAN, Oto - SVITOK, Marek - FEDOR, Peter. Influence of Selected Environmental Parameters on Rove Beetle (Coleoptera: Staphylinidae) Communities in Central European Floodplain Forests. In WETLANDS, 2021, vol. 41, no. 8, pp. ISSN 0277-5212. Available on: https://doi.org/10.1007/s13157-021-01496-5., Registrované v: WOS

BBA Kapitoly v odborných knižných publikáciách vydané v zahraničných vydavateľstvách

BBA01 ŠUSTEK, Zbyšek. Characteristics of humidity requirements and relations to vegetation cover of selected Centra-European Carabids (Col., Carabidae). In Geobiocenologické spisy. : Hodnocení stavu a vývoje lesních geobiocenóz. - Brno, CZ : Lesnická a dřevařská fakulta MZLU v Brně : Ústav lesnické botaniky, dendrologie a typologie, 2004, svazek 9. ISBN 80-7151-787-1.

Citácie:

1. [1.1] LITAVSKY, Juraj - MAJZLAN, Oto - STASIOV, Slavomir - SVITOK, Marek - FEDOR, Peter. The associations between ground beetle (Coleoptera: Carabidae) communities and environmental condition in floodplain forests in the Pannonian Basin. In EUROPEAN JOURNAL OF ENTOMOLOGY, 2021, vol. 118, no., pp. 14-23. Available on: https://doi.org/10.14411/eje.2021.002., Registrované v: WOS

BBB Kapitoly v odborných knižných publikáciách vydané v domácich vydavateľstvách

BBB01 ŠUSTEK, Zbyšek. Changes in Carabid (Coleoptera, Carabidae) communities along a moisture gradient. In 12. posterový deň s medzinárodnou účasťou. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra : Posterový deň s medzinárodnou účasťou. 12. - Bratislava : Ústav hydrológie SAV, 2004, p. 456-462. ISBN 80-89139-05-1.

Citácie:

1. [1.1] LITAVSKY, Juraj - MAJZLAN, Oto - STASIOV, Slavomir - SVITOK,

Marek - FEDOR, Peter. The associations between ground beetle (Coleoptera: Carabidae) communities and environmental condition in floodplain forests in the Pannonian Basin. In EUROPEAN JOURNAL OF ENTOMOLOGY, 2021, vol. 118, no., pp. 14-23. Available on: https://doi.org/10.14411/eje.2021.002., Registrované v: WOS

DAI Dizertačné a habilitačné práce

DAI01 ROLLER, Ladislav. Spoločenstvá hrubopásych (Hymenoptera: Symphyta) vybraných zoogeografických regiónov Slovenska. Bratislava : Ústav zoológie SAV, 1999. S. 180. dizertačná práca

Citácie:

1. [3.1] HARIS, A. (2021). Sawflies of the Cserhát Mountains (Hymenoptera: Symphyta). NATURA SOMOGYIENSIS, (37), 25-42. ISSN 1587-1908

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Prof. RNDr. Oto Majzlan, CSc.
Názov semestr. predmetu: Biodiverzita I.
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

Prof. RNDr. Oto Majzlan, CSc.
Názov semestr. predmetu: Ekosystémové služby
Počet hodín za semester: 14
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

Prof. RNDr. Oto Majzlan, CSc.
Názov semestr. predmetu: Environmentálna výchova
Počet hodín za semester: 10
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

Mgr. Veronika Michalková, Ph.D.
Názov semestr. predmetu: Medicinska entomologia
Počet hodín za semester: 14
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra ekologie

prof. PaedDr. Pavol Prokop, DrSc.
Názov semestr. predmetu: Biodiverzita I.
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

prof. PaedDr. Pavol Prokop, DrSc.
Názov semestr. predmetu: Dynamika a diverzita živých systémov
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

prof. PaedDr. Pavol Prokop, DrSc.
Názov semestr. predmetu: Urbánna ekológia
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

prof. PaedDr. Pavol Prokop, DrSc.
Názov semestr. predmetu: Všeobecná ekológia
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra enviromentálnej ekológie a manažmentu krajiny

Mgr. Radovan Václav, PhD.
Názov semestr. predmetu: Evolučná ekológia
Počet hodín za semester: 1
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra ekológie

RNDr. Dušan Žitňan, DrSc.
Názov semestr. predmetu: Modelové druhy
Počet hodín za semester: 8
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra genetiky

RNDr. Dušan Žitňan, DrSc.
Názov semestr. predmetu: Vybrané kapitoly
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra genetiky

RNDr. Dušan Žitňan, DrSc.
Názov semestr. predmetu: Vybrané kapitoly
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Semestrálne cvičenia:

Mgr. Matej Medla
Názov semestr. predmetu: Základné cvičenia z molekulárnej biológie
Počet hodín za semester: 28
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Semináre:

Terénne cvičenia:

Individuálne prednášky:

Mgr. Martina Gáliková, PhD.
Názov semestr. predmetu: Génové manipulácie v bezstavovčích biomedicínskych modeloch
Počet hodín za semester: 3
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Igor Kokavec, PhD.
Názov semestr. predmetu: Reprodukčné stratégie bezstavovcov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra ekológie

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**
Belgicko					Hemen Sendi	90
Česko					Alžbeta Šujanová	14
Litva					Alžbeta Šujanová	60
					Alžbeta Šujanová	14
Počet vyslaní spolu					**4**	**178**

(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**
Počet prijatí spolu						

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Česko	Para dny	Alžbeta Šujanová	5
Fínsko	ICE 2022	Dušan Žitňan	6
Francúzsko	EMBO Workshop	Alžbeta Šujanová	4
Nemecko	Wildlife Malaria Conference 2022	Alžbeta Šujanová	4
Portugalsko	FEBS Congress 2022	Matej Medla	6
Rumunsko	TTP 10	Mária Kazimírová	5
Spolu	**6**	**6**	**30**

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

Skratky použité v tabuľke C:

EMBO Workshop - New frontiers in host-parasite interactions, from cell to organism
FEBS Congress 2022 - IUBMB FEBS PABMB Congress 2022
ICE 2022 - XXVI International Congress of Entomology
Para dny - XIV. České a slovenské parazitologické dny
TTP 10 - 10th Tick and Tick-Borne Pathogen Conference
Wildlife Malaria Conference 2022 - 5th International Conference on Malaria and related Haemosporidian Parasites of Wildlife

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Alžbeta Darolová, CSc.		RO	Veda na 2 minuty	RTVS	30.5.2022
RNDr. Alžbeta Darolová, CSc.	Richard Schnurmacher	RO	prezentácia výsledkov výskumu lelka lesného	Radio Regina	14.12.2022
MVDr. Yuliya Didyk, PhD.	Rusňáková Tarageľová, Veronika, Chvostáč, Michal, Derdáková, Markéta, Mangová, Barbara, Selyemová, Diana	iné	Noc vzskumnikov	Stará tržnica Bratislava	30.9.2022
Mgr. Martina Gáliková, PhD.		IN	Readycon	https://www.readycon.live/	27.11.2022
Mgr. Martina Gáliková, PhD.	Diana Knoblochová	PB	Zážitkové laboratórium	Ústav zoológie SAV	2022
RNDr. Mária Kazimírová, CSc.		TL	rozhovor	https://www.cas.sk/clanok/2694671/kliesteraz-mozno-vyliecia-rakovinu-su-to-ovela-zaujimavejsie-tvory-nez-by-ste-cakali-toto-prezradila-expertka/	10.7.2022
Mgr. Igor Kokavec, PhD.		iné	Vedecký veľtrh 2022	Námestie Eurovea, Bratislava	23.9.2022
Mgr. Barbara Mangová, PhD.	Didyk	iné	Letná škola mladých vedcov	Ústav zooloógie SAV	18.7.2022
Mgr. Barbara Mangová, PhD.	Didyk	PB	Parazitologická prednáška pre Ukrajinsko-Slovenský dom	Ústav zooloógie SAV	2022
Mgr. Veronika Michalková, Ph.D.		RO	Dobré ráno, Slovensko!	RTVS 2.6.2022	2.6.2022
Mgr. Veronika Michalková, Ph.D.		TV	Spravy RTVS	Spravy RTVS	18.11.2022
RNDr. Tomáš Navara, PhD.		iné	Vedecký veľtrh 2022	Námestie Eurovea, Bratislava	23.9.2022
prof. PaedDr. Pavol Prokop, DrSc.		TL	„Svadobné kŕmenie u živočíchov: konflikt pohlaví alebo kooperácia?	Senčan	2022
prof. PaedDr. Pavol Prokop, DrSc.		TL	Ako súvisí emócia hnusu s predsudkami k niektorým ľuďom?	Denník N	22.4.2022

prof. PaedDr. Pavol Prokop, DrSc.		RO	Behaviorálna ekológia	RTVS Bratislava	25.6.2022
prof. PaedDr. Pavol Prokop, DrSc.		TL	Čo je za tým, že pavúk nosí svadobný dar a prečo pociťujeme hnus	Denník N	18.6.2022
prof. PaedDr. Pavol Prokop, DrSc.		IN	Hlavolam zvieracej ríše: ako funguje svadobné kŕmenie	Aktuality.sk	31.7.2022
prof. PaedDr. Pavol Prokop, DrSc.		TL	Partnerské preferencie sú univerzálne naprieč rôznymi kultúrami	Denník N	24.6.2022
prof. PaedDr. Pavol Prokop, DrSc.		TV	Pochmúrna budúcnosť hmyzu	JOJ Noviny plus	12.5.2022
prof. PaedDr. Pavol Prokop, DrSc.		TV	Pozitívny prínos bodavého hmyzu	Správy RTVS	22.7.2022
prof. PaedDr. Pavol Prokop, DrSc.		TV	Vedec roka - evolučné otázky správania	RTVS - VAT	14.6.2022
Mgr. Marek Semelbauer, PhD.		TL	Ako vyzerala krajina v minulosti	Šúrsky žurnál	2022
Mgr. Marek Semelbauer, PhD.		IN	VEDA NA DVE MINÚTY | Ktoré zviera je najstaršie na svete?	https://www.funradio.sk	29.3.2022
Mgr. Marek Semelbauer, PhD.	Alžbeta Králiková	IN	Podcast: Na poplach nebijú len včely, ale aj ďalšie vzácne opeľovače	https://vedanadosah.cvtisr.sk/	29.7.2022
Mgr. Marek Semelbauer, PhD.	Eduard Starkbauer	IN	Včely medonosné sú preceňované, pripisujeme im zásluhy iných druhov. Vraví entomológ Marek Semelbauer	https://refresher.sk/	18.7.2022
Mgr. Marek Semelbauer, PhD.	Lukáš Kekelák	IN	Entomológ o muchách Na jedlo napľujú a ochutnávajú ho končatinami, mŕtvolu nájdu medzi prvými	https://www.postoj.sk/	26.7.2022
Mgr. Marek Semelbauer, PhD.	Martin Bystriansky	RO	Ktoré zviera je na Zemi najdlhšie?	fun radio, https://www.funradio.sk/clanok/46394-veda-na-dve-minuty-ktore-zviera-je-najstarsie-na-svete/	29.3.2022
MVDr. Yuliya Didyk, PhD.	Mangová, Barbara Mgr., PhD.	PB	realizácia seminárov pre ukrajinské deti z letného tábora Sme Spolu, s podporou UNICEF Europe	Ústavu zoológie SAV, v. v. i.	3
Mgr. Martina Gáliková, PhD.		IN	DNA day	https://www.youtube.com/watch?v=Ytv_KVE5T-8&t=3s	1
Mgr. Michal Chvostáč, PhD.	Mgr. Barbara Mangová, PhD., MVDr. Júlia	PB	Noc výskumníkov	Bratislava, Stará tržnica	1

	Didyk, PhD., Mgr. Diana Selyemová, PhD., Mgr. Veronika Tarageľová, PhD., Mgr. Alžbeta Šujanová, MVDr. Markéta Drdáková, PhD.				
Mgr. Barbara Mangová, PhD.	Didyk, Chvostáč, Selyemová, Rusnaková-Tarageľová, Šujanová, Derdáková	EX	Noc výskumníkov	Bratislava, St.tržnica	1
Ing. Ladislav Roller, PhD.		iné	Príprava študijných materiálov a 6 testov pre Biologickú olympiádu Kategória E a F	https://www.iuventa.sk/olympiady/ucitel-organizator/biologicka-olympiada/	6
Mgr. Veronika Rusňáková Tarageľová, PhD.		PB	Noc výskumníkov	Stará tržnica, nám. SNP, Bratislava	1
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[1] *PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédiá, DO - dokumentárny film*