

Ústav zoológie SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2023**

Bratislava
február 2024

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ČASŤ A

Ústav zoológie SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2023**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav zoológie SAV, v. v. i.

Riaditeľ: Ing. Ladislav Roller, PhD.

Zástupca riaditeľa: doc. RNDr. Ľubomír Vidlička, CSc.

Vedecký tajomník: Mgr. Igor Kokavec, PhD.

Predseda vedeckej rady: Mgr. Ivana Daubnerová, PhD.

Člen Snemu SAV: RNDr. Dušan Žitňan, DrSc.

Adresa: Dúbravská cesta 9, 845 06 Bratislava

<https://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 zadáný

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	56	32	24	7	5	53	45.6	23.97	1
Vedeckí pracovníci	41	26	15	4	2	38	32.28	23.97	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	3	1	2	1	2	3	2.04	0	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	3	0	3	0	0	3	2.45	0	0
Odborní pracovníci ÚS	7	4	3	2	1	7	7	0	1
Ostatní pracovníci	2	1	1	0	0	2	1.83	0	0

¹ odmeňovaní podľa 553/2003 Z.z., príloha č. 5² odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2023 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

F – fyzický stav zamestnancov k 31.12.2023 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zborech)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

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

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	3	23	3	2	4	14	8
Ženy	0	14	0	0	0	10	5

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	0	0.0	1	1.0	3	3.0	1	1.0	3	2.3	1	1.0	1	1.0	2	2.0	4	1.2
Ženy	2	2.0	0	0.0	2	2.0	3	3.0	3	2.4	0	0.0	0	0.0	1	1.0	1	1.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2023

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	48.3	50.5	52.8
Ženy	44.7	44.5	45.1
Spolu	46.8	48.3	49.5

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

V rámci organizačnej štruktúry ÚZ SAV, v. v. i. vzniklo nové Oddelenie genetiky a ekofyziológie zložené z mladých a perspektívnych pracovníkov. Členovia oddelenia študujú genetické a epigenetické mechanizmy regulácie metabolizmu na modelovom druhu hmyzu – drozofile obyčajnej. Ekofyziologická časť výskumu je zameraná na štúdium prírodnej variability, evolučných adaptácií a vývinovej plasticity.

S účinnosťou od 1.11.2023 vymenovalo Predsedníctvo SAV do funkcie riaditeľa UZ SAV, v. v. i. Ing. Ladislava Rollera, PhD., ktorý nahradil RNDr. Dušana Žitňana, DrSc.

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	10	7	75353	75353	-	-	15227	-
2. Projekty APVV	4	1	28779	28779	135991	135991	-	10525
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	0	1	-	-	-	-	-	29880
4. Projekty SASPRO, MoRePro, IMPULZ	2	0	20412	20412	44664	44664	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	6	0	40100	40100	74100	74100	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2023

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2023	Bratislava	6	2
2. Projekty výziev EŠIF podané r. 2023	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2023

Tabuľka 2c Medzinárodné projekty riešené v roku 2023

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre 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	1	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	2	-	-	-	-	-	20150
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 (SAV, APVV a iné)	0	1	-	-	-	-	-	833
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2023

Tabuľka 2d Počet projektov Horizont Európa v roku 2023

	A	B
Počet podaných projektov Horizont Európa	1	2

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

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

V roku 2023 bolo úspešne ukončené riešenie projektu Štrukturálnych fondov „DNA barcoding Slovenska (SK-BOL), ktorý bol súčasťou medzinárodnej iniciatívy International Barcode of Life (iBOL)“. Taktiež zamestnanci ústavu participujú v projekte LIFE „Zavedenie overených postupov ochrany motýľov v strednej a východnej Európe“. Neustále sledujeme vhodné výzvy, do ktorých by sme sa mohli zapojiť. Zamestnanci ústavu sa tiež početne zapojili do výziev z Plánu obnovy (4x štipendiá pre excelentných výskumníkov, 2x Transformačné a inovačné konzorciá, 1x Veľký projekt pre excelentného výskumníka a 1x kapitálový booster pre APVV projekty). Veríme, že niektoré z našich zámerov budú financované a pomôžu nám obnoviť výskumnú infraštruktúru a stimulovať našich perspektívnych zamestnancov aspoň na určité obdobie.

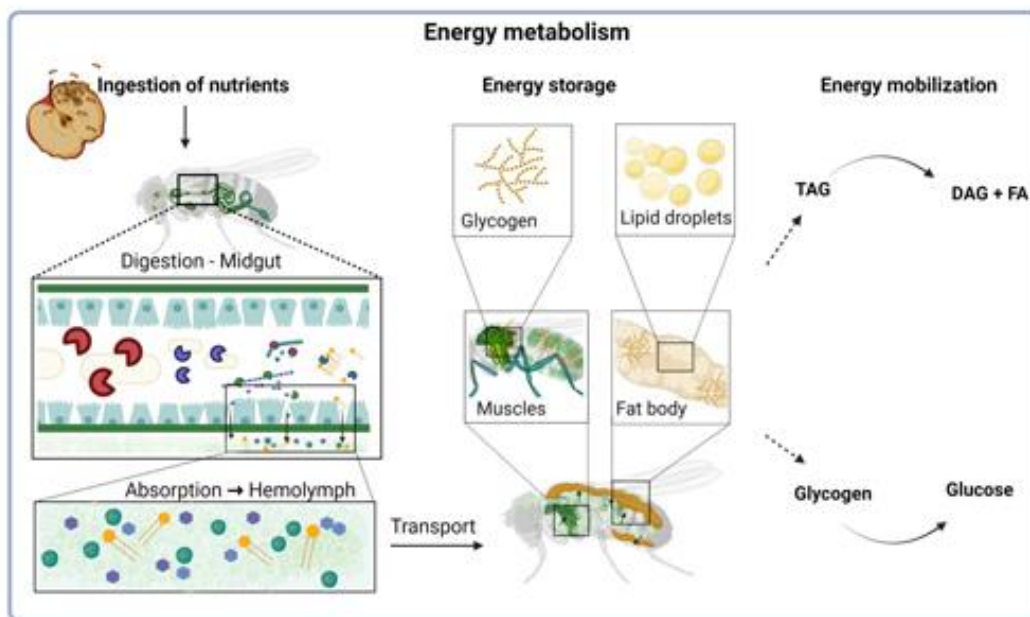
2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2023

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

2.3.1. Výsledky na báze základného výskumu

a. Hormonálne regulácie pálenia tukových a karbohydrátových zásob

Vínna muška drozofila obyčajná (*Drosophila melanogaster*) je mimoriadne populárny model pre štúdium rôznych oblastí biológie. V posledných desaťročiach sa hojne používa aj v oblasti štúdia metabolizmu a jeho ochorení, vrátane obezity, cukrovky či metabolického syndrómu. Napriek značnej evolučnej vzdialenosti ukladajú ľudia aj mušky svoje energetické zásoby v chemicky identickej forme v analogických orgánoch, pričom ich regulujú podobnými biochemickými dráhami. Glykogén a tuk sú univerzálne energetické rezervy používané vo všetkých živočíšnych kmeňoch. Niektoré z ich endokrinných regulátorov, predovšetkým anabolických (ako je inzulínová dráha) sú vysoko evolučne konzervované. Katabolické regulácie naopak značne divergovali a pozorujeme u nich nielen medzidruhovú variabilitu, ale tiež významné vnútrodrohové rozdiely v závislosti od vývojového štádia a kontextu. Medzi tieto rozdiely patria napríklad endokrinné dráhy, ktoré riadia rozklad energetických zásob, ale tiež prednostné palivo používané pre daný proces. V našej práci popisujeme základné energetické rezervy, ich zmeny počas vývinu a dospelosti a endokrinné dráhy zodpovedné za ich spaľovanie u drozofily obyčajnej. Sústredili sme sa najmä na katabolické úlohy regulátorov zo skupiny peptidových hormónov, katecholamínov, extracelulárneho adenosínu a steroidných hormónov. Zamýšľame sa tiež nad perspektívou a limitáciami výskumu energetickej rovnováhy v modelových organizmoch.



Obr: Metabolizmus energetických rezerv drozofíl.

GÁLIKOVÁ, Martina** - KLEPSATEL, Peter*. Endocrine control of glycogen and triacylglycerol breakdown in the fly model. In *Seminars in Cell and Developmental Biology*, 2023, vol. 138, p. 104-116. (2022: 7.3 - IF, Q1 - JCR, 2.197 - SJR, Q1 - SJR). ISSN 1084-9521. Dostupné na: <https://doi.org/10.1016/j.semcd.2022.03.034> Typ: ADCA

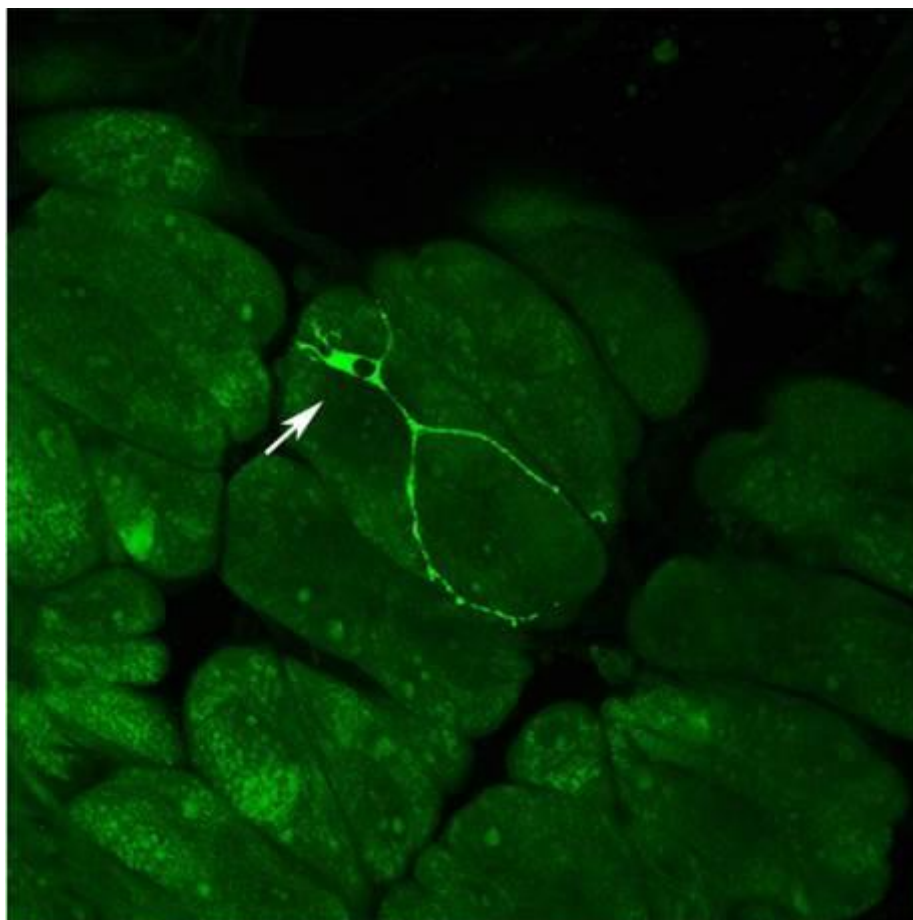
b. Vývinová plasticita reprodukčnej schopnosti

Telesná teplota ektotermných živočíchov má významný vplyv na ich fitness, čo je zrejmé aj z tzv. kriviek termálnej výkonnosti (TPC). Naša štúdia skúmala celkový rozsah termálnej vývinovej plasticity v TPC pre reprodukčnú schopnosť u *Drosophila melanogaster*, s použitím komplexného experimentálneho dizajnu s viacerými teplotami. Zistili sme, že teplota počas vývinu významne ovplyvňuje mieru produkcie vajíčok a v menšej miere aj iné parametre TPC. Naše výsledky naznačujú, že zmeny v počte ovariol podmienené teplotou počas vývinu môžu byť hnacou silou plasticity maximálneho reprodukčného výkonu. Naš výskum poukazuje na limity vývinovej plasticity v zvyšovaní reprodukčného fitness a naznačuje, že hoci parametre TPC ako je miera produkcie vajíčok sú pomerne plastické, ich prispôbitelnosť nemusí byť dostatočná na účinnú adaptáciu na zmeny prostredia.

KLEPSATEL, Peter** - KNOBLOCHOVÁ, Diana - DHARANIKOTA, Malleswara - VIDLIČKA, Ľubomír - GÁLIKOVÁ, Martina*. Developmental plasticity of thermal performance curve for reproduction in *Drosophila melanogaster*. In *Evolution*, 2023, vol. 77, no. 12, p. 2606-2618. (2022: 3.3 - IF, Q2 - JCR, 1.503 - SJR, Q1 - SJR). ISSN 0014-3820. Dostupné na: <https://doi.org/10.1093/evolut/qpad177> Typ: ADCA

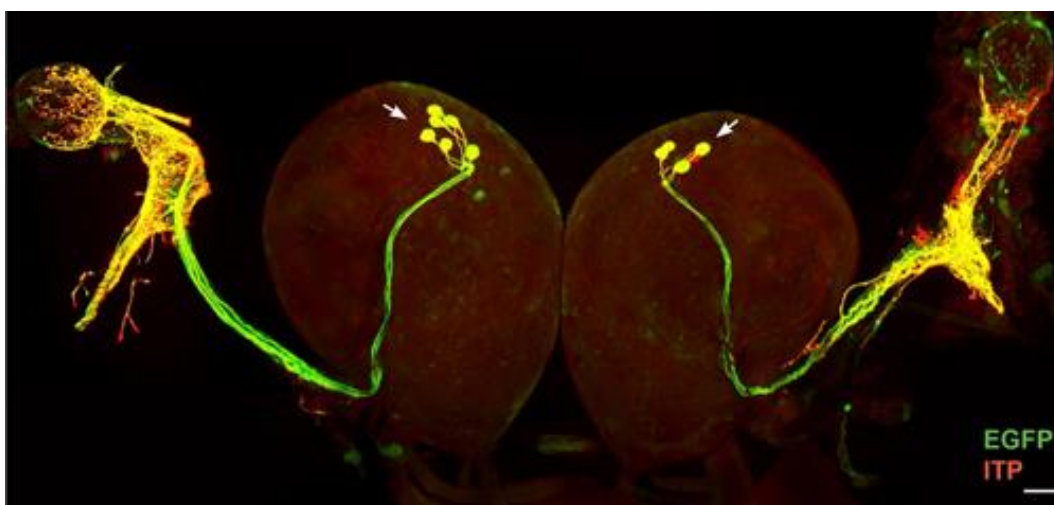
c. Novoidentifikované neuropeptidy u kliešť'a *Ixodes ricinus* a priadky *Bombyx mori*

Neuropeptidy aj napriek svojej malej veľkosti predstavujú dôležité molekuly, ktoré regulujú široké spektrum biologických funkcií u článkonožcov. Príjem potravy, rast, vývin, zvliekanie, rozmnožovanie – všetky tieto procesy sú pod prísnou kontrolou neuropeptidov. Všeobecne sú produkované v centrálnej nervovej sústave, alebo enteroendokrinných bunkách na povrchu čreva. Štúdium signálnych dráh neuropeptidov je nielen vedecky fascinujúce, ale aj veľmi dôležité pre pochopenie spôsobu prežívania všetkých článkonožcov. V konečnom dôsledku môžu tieto neuropeptidy ovplyvňovať aj nás – ľudí. Práca Medlu a kol. (2023) sa venuje u kliešť'a *Ixodes ricinus* novo-objavenému neuropeptidu nazývanému *malý neuropeptid F* (sNPF) a jeho 2 receptorom. Tento kliešť je jedným z najčastejších vektorov prenášajúcich ochorenia na ľudí v Európe. Vyskytuje sa takmer na celom území Slovenska s výnimkou vysokohorských oblastí. Produkciu sNPF sme lokalizovali nielen v jeho centrálnej nervovej sústave, ale aj v endokrinných bunkách čreva najmä u samice v štádiu rýchlej fázy cicania kedy dramaticky zväčšujú svoju hmotnosť. To poukazuje na funkciu sNPF pri regulácii prechodu samíc do rýchlej fázy cicania, čo môže mať vplyv na veľkosť znášky vajíčok. Výsledky výskumu významne napomáhajú nastaveniu ďalších experimentov. Ak by sme vedeli prostredníctvom potlačenia expresie sNPF a jeho receptorov negatívne ovplyvniť prechod samíc do rýchlej fázy cicania, výrazne by sme zredukovali produkciu ďalšej generácie kliešťov. Práca obsahuje sekvenčné analýzy sNPF a jeho receptorov, funkčnú charakterizáciu receptorov a analýzu expresie receptorov pomocou kvantitatívnej *real-time* PCR. Je doplnená množstvom obrázkov z imunohistochemických a *in situ* hybridizačných farbení tkanív kliešťov pomocou protilátok, resp. prób.



Obr. Endokrinná bunka na povrchu čreva u samice *I. ricinus* v rýchlej fáze cicania produkujúca *malý neuropeptid F* (sNPF) – zafarbená imunohistochemicky pomocou protilátok.

Práca Klöcklerovej a kol. (2023) sa zaoberá štúdiom dvoch neuropeptidov – ióny prenášajúceho peptidu (ITP) a peptidu podobného ITP (ITPL) u hmyzu, konkrétne u priadky morušovej *Bombyx mori*. ITP a ITPL boli v minulosti popísané u viacerých druhov hmyzu. ISú známe viaceré ich funkcie, napr. v regulácii homeostázy vody, cirkadiálnych hodín a post-ekdyziálneho správania. V práci popisujeme bunky produkujúce ITP a ITPL u lariev, kukiel a dospelcov priadky, pričom ukazujeme, že produkcia týchto neuropeptidov je miestne, štádiové, a v prípade ITP aj pohlavne špecifická. Výsledky sú podložené množstvom imunohistochemických a *in situ* hybridizačných farbení. Produkciu ITPL sme lokalizovali v mozgu, veľkom počte neurónov ventrálnej nervovej pásky a periférnych neurónoch, zatiaľ čo ITP je produkovaný v mozgu a v pohlavne špecifickom zhľuku ventrálnej nervovej pásky inervujúcim pohlavné orgány samcov. Tieto rozdiely nám naznačujú, že ITP a ITPL majú rôzne funkcie. Obzvlášť významným je zistenie, že ITP má možnú funkciu v regulácii procesov spojených s rozmnožovaním u samcov. V práci zároveň popisujeme regulačnú oblasť *itp* génu a prípravu transgénnej línie priadok, ktorá bude v nadväznej práci použitá na funkčnú charakterizáciu ITP a ITPL.



Obr. Bunky v mozgu larvy *B. mori* produkujúce ITP a ITPL – imunohistochemické farbenie protilátkou proti ITP a cieleňá expresia zeleného fluorescenčného proteínu (EGFP).

MEDLA, Matej - DAUBNEROVÁ, Ivana - KOČI, Juraj - ROLLER, Ladislav - SLOVÁK, Mirko - ŽITŇAN, Dušan**. Identification and expression of short neuropeptide F and its receptors in the tick *Ixodes ricinus*. In *Journal of Insect Physiology*, 2023, vol. 147, art. no. 104524, 11 pp. (2022: 2.2 - IF, Q1 - JCR, 0.736 - SJR, Q1 - SJR).

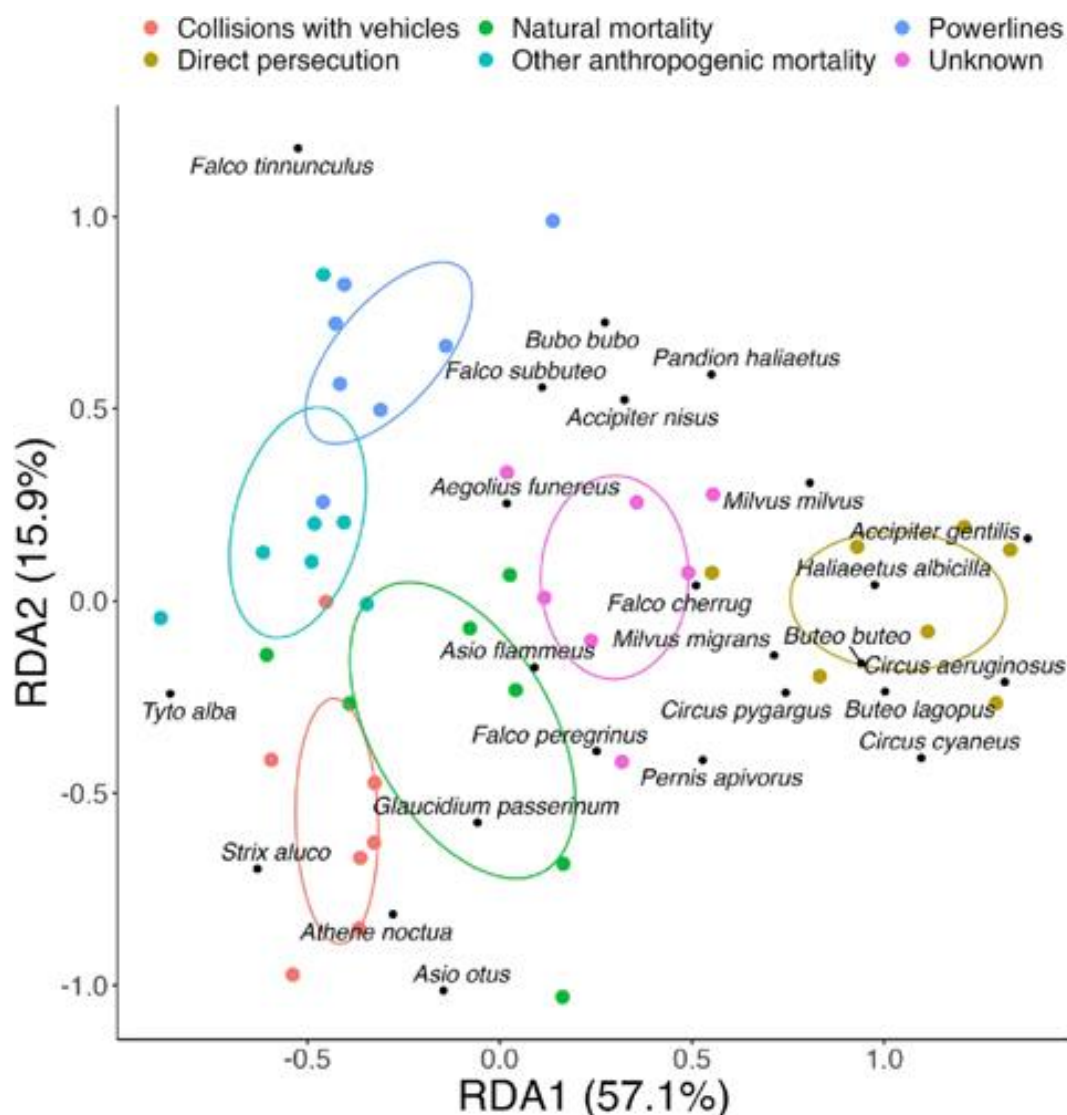
KLÖCKLEROVÁ, Vanda - GÁLIKOVÁ, Zuzana - ROLLER, Ladislav - ŽITŇAN, Dušan**. Differential expression of ITP and ITPL indicate multiple functions in the silkworm *Bombyx mori*. In *Cell and Tissue Research*, 2023, vol. 392, no. 3, p. 715-731. (2022: 3.6 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR).

2.3.2. Výsledky aplikačného typu

Dôležitosť súčasných a historických antropogénnych zdrojov v trendoch mortality dravcov

Hoci globálny pokles diverzity a populačných stavov živočíchov je alarmujúci, kľúčové príčiny týchto poklesov nie sú jasné pre väčšinu druhov. Väčšina prác v tejto problematike sa aj kvôli

praktickým dôvodom zameriava iba na jednotlivé druhy, menšie plošné celky a obdobia súčasnosti alebo niekoľkých dekád do minulosti. Dravé vtáky sú pre človeka významnou živočíšnou skupinou, pretože ich človek považuje za svojich konkurentov a po stáročia ich intenzívne prenasleduje. Keďže antropogénne príčiny poklesu populačných stavov sa najmä behom posledných sto rokov prudko menili, napr. rozmachom cestnej a energetickej infraštruktúry, intenzifikáciou poľnohospodárstva, ale aj nárastom povedomia o ekosystémových službách dravcov, objasnenie hlavných príčin súčasných kolabujúcich stavov mnohých druhov dravcov nie je jednoduché. V našej práci sme využili bohatosť dát o mortalite dravcov na území Českej republiky z rôznych štátnych, spolkových, faunistických a osobných databáz za obdobie uplynulých sto rokov (1913–2017). Dáta umožnili štatistickú kvantifikáciu časových trendov v príčinách antropogénnej a prirodzenej mortality pre 24 druhov dravých vtákov a sov. Z antropogénnych príčin mortality pre celú skupinu dravcov počas sledovaného obdobia dominovalo úmyselné prenasledovanie človekom (odstreľ, trávenie alebo ničenie hniezd), hoci v súčasnosti prevažujú zdroje neúmyselnej antropogénnej mortality (napr. zrážky s dopravnými prostriedkami alebo mortalita na energetickej infraštruktúre). Naša štúdia naznačuje, že úmyselné prenasledovanie dravcov človekom malo najväčší vplyv na súčasné nízke stavy dravcov. Aj keď v súčasnosti v absolútnom meradle prevažujú iné zdroje mortality spôsobenej človekom, praktická ochrana dravcov, ale vo všeobecnosti aj iných živočíchov, by aj v súčasnosti mala venovať zvýšené úsilie na potlačovanie úmyselného prenasledovania dravcov. Tento antropogénny zdroj mortality je totiž bežný a pravdepodobne značne podhodnotený aj v súčasnosti.

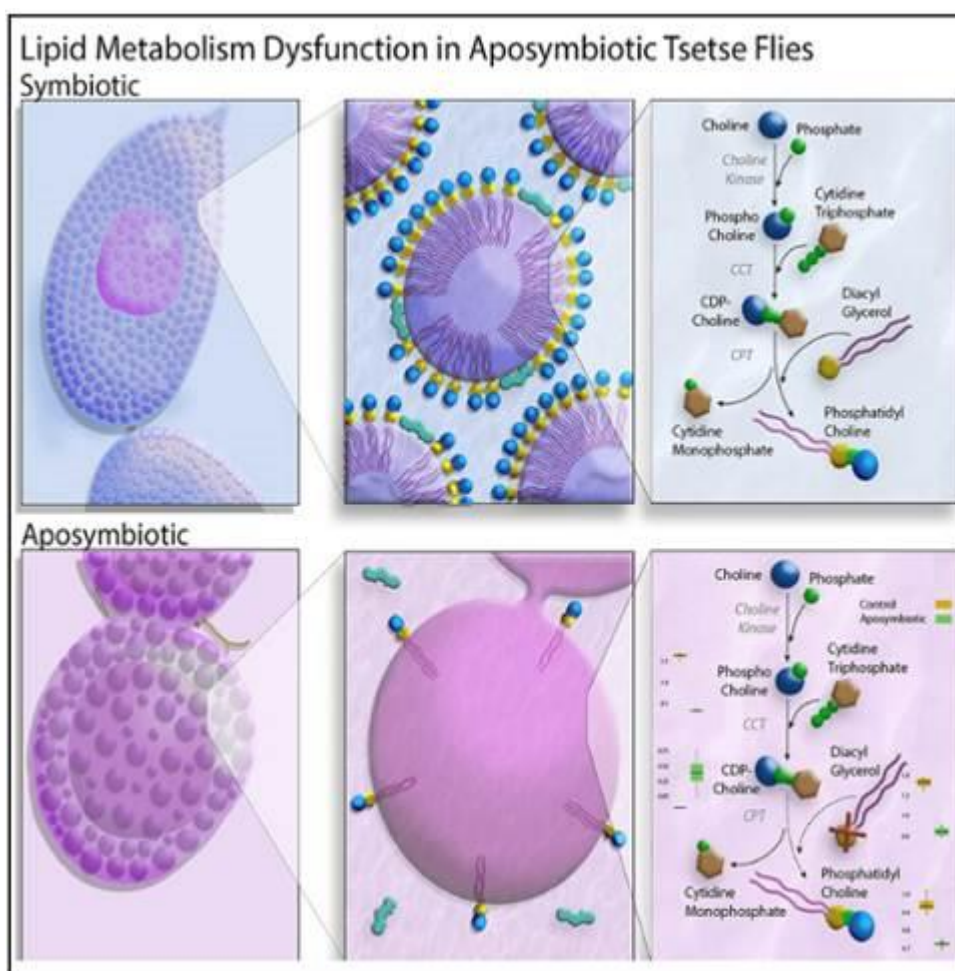


ŠÁLEK, Martin** - BAŽANT, Miroslav - KLVAŇA, Petr - VERMOUZEK, Zdeněk - VÁCLAV, Radovan*. Historical changes in mortality patterns of diurnal and nocturnal raptors in the Czech Republic, Central Europe: 1913–2017. In *Biological Conservation*, 2023, vol. 282, article number 110073, 8 pp. (2022: 5.9 - IF, Q1 - JCR, 2.146 - SJR, Q1 - SJR).

2.3.3. Výsledky na báze medzinárodnej spolupráce

a. Dysfunkcia metabolizmu lipidov po eliminácii symbiontov je spojená so zmenenou homeostázou

Metabolizmus lipidov je rozhodujúci pre reprodukciu hmyzu, najmä pre druhy, ktoré investujú veľa do skorých vývinových štádií svojich potomkov. Úloha symbiotických baktérií v tomto procese je nedostatočne preskúmaná, a pritom nevyhnutná. Skúmali sme úlohu metabolizmu lipidov počas interakcie medzi živorodou muchou tsetse (*Glossina morsitans morsitans*) a jej obligátnymi endosymbiotickými baktériami (*Wigglesworthia glossinidia*) počas gravidity muchy tsetse. Gravidné muchy mali zvýšenú expresiu CTP: fosfocholín cytidyltransferázy (cct1), ktorá je rozhodujúca pre biosyntézu fosfatidylcholínu v Kennedyho dráhe. Experimentálne odstránenie baktérie *Wigglesworthia* zhoršilo metabolizmus lipidov prostredníctvom narušenia Kennedyho dráhy, čo spôsobilo obezitu matiek a hladovanie vyvíjajúceho sa potomstva. Funkčná validácia prostredníctvom experimentálneho potlačenia cct1 odhalila fenotyp podobný samičkám, ktorým chýbajú obligátni symbionti *Wigglesworthia*. Tieto výsledky naznačujú, že v muche tsetse sú faktory odvodené od symbiontov, pravdepodobne vitamíny B, rozhodujúce pre správnu funkciu biosyntézy lipidov a lipolýzy na udržanie jej plodnosti.



ATTARDO, Geoffrey M. - BENOIT, Joshua B. - MICHALKOVÁ, Veronika - KONDRAGUNTA, Alekha - BAUMANN, Aaron A. - WEISS, Brian L. - MALACRIDA, Anna R. - SCOLARI, Francesca - AKSOY, Serap. Lipid metabolism dysfunction following symbiont elimination is linked to altered Kennedy pathway homeostasis. In iScience, 2023, vol. 26, iss.7, art. no. 107108. (2022: 5.8 - IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR)

b. Energetický stav vodných lariev hmyzu vo vysokohorských potokoch

Pakomárovité (Diptera: Chironomidae) sú najrozšírenejšou skupinou voľne žijúceho holometabolického hmyzu známou zo všetkých zoogeografických oblastí vrátane Antarktídy. Larvy sú bežnými obyvateľmi najrôznejších typov sladkých vôd vo všetkých klimatických zónach od trópov po polárne oblasti a často dominujú v bentických spoločenstvách nielen svojou abundanciou, ale aj počtom druhov. Spomedzi vodného hmyzu sú pakomáre schopné znášať najextrémnejšie podmienky prostredia: vyskytujú sa v mimoriadne širokom výškovom gradiente, niektoré druhy znášajú extrémne nízke hodnoty pH (≤ 3), dlhodobé vyschnutie, nízke koncentrácie rozpusteného kyslíka a extrémne teploty vody a vzduchu. Práve druhy rodu *Diamesa* patria medzi tie, ktoré sú všeobecne známe svojou viazanosťou k extrémne nízkym teplotám. Larvy väčšiny druhov rodu žijú v chladných vysokohorských a arktických potokoch a sú často jediným druhom vodného hmyzu vyskytujúcim sa pri čele ľadovcov. Rod *Diamesa* je už dlhšie v hľadáčiku fyziológov, keďže larvy rodu predstavujú ideálny model pre štúdium adaptácie na život v extrémne chladných podmienkach. Naša hypotéza bola, že larvy, ktoré sú vystavené extrémnejším environmentálnym podmienkam, budú mať väčšie zásoby glykogénu alebo tukov v ktorých väčšina živočíchov skladuje energiu. V rámci projektu sme skúmali vysokohorské potoky v rakúskych Alpách. Desať lokalít bolo rozmiestnených pozdĺž gradientu nadmorskej výšky a v prípade ľadovcových potokov aj v závislosti od vzdialenosti od ľadovca. Naše výsledky ukázali, že vo všeobecnosti mali larvy *Diamesa* prekvapivo malé zásoby energie a že koncentrácie glykogénu a lipidov nekorelovali ani s nadmorskou výškou a ani so vzdialenosťou od čela ľadovca. Zistené koncentrácie glykogénu (pod 0,01 % suchej hmotnosti) a lipidov (pod 5 % suchej hmotnosti) v larvách predstavujú vôbec najnižšie, aké sa kedy pozorovali u lariev pakomárov. Je možné, že ide o všeobecnú črtu vodného hmyzu vysokohorských potokov, ako prostredia s vysokým stresom a teda vysokou spotrebou energie, čoho výsledkom je pomalší vývin larválnych štádií. Počas výskumu bola vyvinutá aj nová, presnejšia metóda merania obsahu glykogénu a lipidov v malých vzorkách. Tá umožnila merať veľmi malé koncentrácie týchto látok v malých organizmoch. V článku je demonštrovaná aj aplikácia tejto metódy.

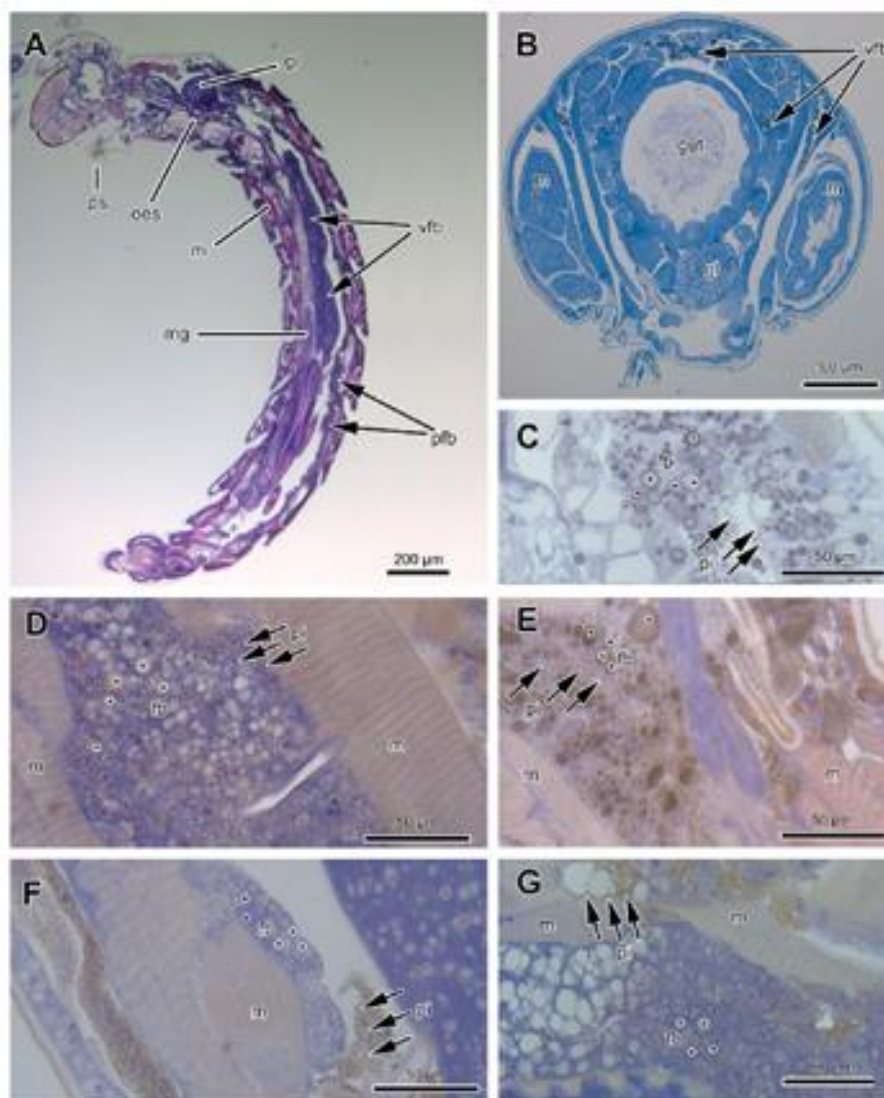


Fig. 4. Light microscopic evaluation of additional GrO₄ fixed and Haematoxylin-Eosin (HE) stained chironomid larvae from different sampling locations in the Ötztal area with a focus on the fat body. A) Whole-mount longitudinal section, general overview; B) *Diamesa nitidoboei*, semi-thin cross-sectioned animal stained with Richardson blue, general overview; C) *Diamesa modesta*, longitudinal section, detailed view of the fat body; D) *Metriocnemus hygropericus*, longitudinal section of larvae showing the fat body surrounded by muscle; E) *Diamesa stormsheli*, detail of the fat body in a longitudinal section; F) and G) *Diamesa stormsheli*, detailed views of the fat body from a longitudinal section body stained with HE. Abbreviations: fat body (fb); salivary gland (gl); gut (gut); muscle (m); midgut (mg); oesophagus (oes); parietal fat body (pfb); pigments (pi); pseudopods (ps); visceral fat body (vfb). Asterisks mark osmium-fixed lipid droplets. (For interpretation of the references to colour in this figure legend, the reader is referred to the web version of this article.)

DVOŘÁK, Martin - DITTMANN, Lorenz - PEDRINI-MARTHA, Veronika - HAMERLÍK, Ladislav - BITUŠÍK, Peter - STUHLÍK, E. - VONDRÁK, Daniel - FÜREDER, Leopold - LACKNER, R.**. Energy status of chironomid larvae (Diptera: Chironomidae) from high alpine rivers (Tyrol, Austria). In Comparative biochemistry and physiology - Part A Molecular & integrative physiology, 2023, vol. Part A 284, art. no. 111477, 12 pp. (2022: 2.3 - IF, Q1 - JCR, 0.605 - SJR, Q1 - SJR).

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2023/ doplňky z r. 2022
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	0 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	1 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	38 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	8 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	2 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	2 / 1
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	0 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	3 / 0
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	0 / 0
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	0
18. Ostatné vydané periodiká	1
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	Q1	Q2	Q3	Q4	Spolu
Podľa IF z r. 2022 (zdroj JCR) <i>Počet článkov / doplnky</i>	12 / 0	16 / 0	7 / 0	6 / 0	41 / 0
Podľa SJR z r. 2022 (zdroj Scimago) <i>Počet článkov / doplnky</i>	24 / 0	13 / 0	9 / 0	0 / 0	46 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2022/ doplnky z r. 2021
Citácie vo WOS (1.1, 2.1)	788 / 16
Citácie v SCOPUS (1.2, 2.2)	1307 / 198
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	3 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	245 / 3
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	19
Prednášky a vývesky na národných vedeckých podujatiach	6

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Michalková: How to milk a tsetse fly? Alias Molecular Biology of tsetse fly lactation, 27.4. 2023 Masaryk University, Brno, Czech Republic, 11.5. 2023 Insect Pest Control Section of IAEA, Seibersdorf, Austria, 31.10. 2023 Charles University, Prague, Czech Republic

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

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

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlášené v roku 2023

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) prihlášené v roku 2023

b) udelené v roku 2023

2.7.4. Realizované vynálezy

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

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

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

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

Tabuľka 2i Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Darolová Alžbeta	VEGA	1
Didyk Yuliya	VEGA	1
Hamerlík Ladislav	VEGA	2
Kazimírová Mária	APVV	1
	VEGA	2
Kočí Juraj	VEGA	3
Kokavec Igor	VEGA	1
Roller Ladislav	VEGA	5
Rusňáková Taragel'ová Veronika	VEGA	1
Vidlička Ľubomír	VEGA	5

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra- ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra- ničné
Darolová Alžbeta	1	0	3	0	0	0	0
Didyk Yuliya	0	0	1	0	0	0	0
Gáliková Martina	0	0	8	0	0	0	0
Hamerlík Ladislav	0	0	1	1	0	0	0
Kazimírová Mária	0	0	24	0	3	0	0
Klepsatel Peter	0	0	10	0	0	0	0
Michalková Veronika	0	0	3	0	0	0	0
Navara Tomáš	0	0	1	0	0	0	0
Roller Ladislav	0	0	2	3	0	0	0
Rusňáková Taragel'ová Veronika	0	0	1	0	0	0	0
Šujanová Alžbeta	0	0	2	0	0	0	0
Václav Radovan	0	1	4	0	0	0	0
Vidlička Ľubomír	0	0	5	1	12	0	0
Zhovnerchuk Olha	0	0	2	0	0	0	0
Žitňan Dušan	0	0	5	0	0	0	0
Spolu	1	1	72	5	15	0	0

2.11. Iné informácie k vedecko-výskumnej činnosti.

Rok 2023 bol pre Ústav zoológie SAV opäť úspešný v publikačnej oblasti. Pracovníci ÚZ SAV boli autormi a spoluautormi článkov v prestížnych zahraničných časopisoch, napr. Nucleic Acids Research (IF - 14,9), Seminars in Cell and Developmental Biology (IF - 7,3), Biological Conservation (IF - 5,9), iScience (IF - 5,8) a Body image (IF - 5,2). Vedcami ústavu bolo publikovaných ďalších 6 článkov v časopisoch s IF nad 4. Spolu 24 vedeckých prác bolo zverejnených v časopisoch v prvom kvalitatívnom kvartile.

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

V rámci riešenia projektu **Evolúcia a ochrana veľkoplošných primárnych ekosystémov** bolo publikované špeciálne číslo časopisu *Biologia* (78/6) so 17 príspevkami vedcov z celého sveta (USA, MON, RUS, UK, MYA, LIB, KAZ, THA), niektoré široko medializované vo svete (Márton et al. 2023; Poinar 2023), z toho 11 originálnych vedeckých článkov (jeden monografického rozsahu) v spoluautorstve so zamestnancami a študentami Ústavu zoológie.

Publikácie špeciálneho čísla tu: <https://link.springer.com/journal/11756/volumes-and-issues/78-6>

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

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

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

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Hamerlík Ladislav	0	1	1
Kazimírová Mária	1	0	0
Spolu	1	1	1

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach 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)

Ing. Zbyšek Šustek, CSc.

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

doc. RNDr. Ľubomír Vidlička, CSc.

Deutsche Gesellschaft für Orthopterologie (funkcia: člen)

Mgr. Olha Zhovnerchuk, PhD.

Ukrainian Entomological Society (funkcia: člen)

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

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
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3.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci

a. Výskum malárie u divožijúcich živočíchov na Slovensku

V kontexte projektov o vtácej malárii u divožijúcich živočíchov sme skúmali súvis medzi súčasným výskytom dvoch významných skupín patogénov vtákov - vnútrobunkových parazitov, krvinkoviek, a mimobunkových parazitov, borélií. Zistili sme, že vtáky, ktoré boli pozitívne na výskyt krvinkoviek vykazovali nižšiu mieru infikovanosti kliešťov, ktoré na nich sali, vtáčimi boréliami (*B. garinii* a *B. valaisiana*). Tento vzťah bol významný iba pre staršie vtáky, ktoré vo všeobecnosti vykazujú vyššie imunologické funkcie. Táto práca tak podporuje výskum uskutočnený na iných modelových systémoch v tom, že vnútrobunkové parazity môžu benefitovať z toho, že imunitný systém ich hostiteľov musí simultánne čeliť mnohým parazitom, pričom vo všeobecnosti bojuje prioritne proti mimobunkovým parazitom.

ŠUJANOVÁ, Alžbeta - ČUŽIOVÁ, Z. - VÁCLAV, Radovan**. The Infection Rate of Bird-Feeding Ixodes ricinus Ticks with *Borrelia garinii* and *B. valaisiana* Varies with Host Haemosporidian Infection Status. In *Microorganisms*, 2023, vol. 11, iss. 1, p. 60, 18 pp. (2022: 4.5 - IF, Q2 - JCR, 0.909 - SJR, Q2 - SJR). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms11010060> Typ: ADMA

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.

Prehľad a údaje o medzinárodných projektoch sú uvedené v kapitole 2 a Prílohe A-2.

4. Aplikácia výsledkov výskumu v praxi

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

4.2. 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 biotopov

Zadávatel' výskumného kontraktu: Výskumný ústav vodného hospodárstva

Začiatok spolupráce: 2018

Ukončenie spolupráce: 2024

Finančný prínos pre organizáciu (€): 15000

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Monitorovanie zmien štruktúry planktonických kôrovcov (Cladocera a Copepoda) na trvalých monitorovacích plochách v rámci dohody medzi SR a MR - Monitoring prírodného prostredia dotknutého výstavbou a prevádzkou VD Gabčíkovo - odborná skupina "biota".

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.

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.)

Červená kniha bezstavovcov - viacerí pracovníci ústavu participovali na tvorbe novej červenej knihy bezstavovcov pod gesciou Univerzity Komenského v Bratislave a Štátnej ochrany prírody SR ako hlavní autori kapitol o konkrétnych taxonomických skupinách v rámci svojej špecializácie.

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2023

Forma	Počet k 31.12.2023				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2023					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	
Denná zo zdrojov SAV	1	4	0	3	4	0	3	2	0	0	0	0
Denná z iných zdrojov	1	0	1	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	2	4	1	3	4	0	3	2	0	0	0	0
Z toho zahraničných	1	0	1	0	0	0	0	0	0	0	0	0
Súhrn	6		4		4		5		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 2023 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

5.2. Zmena formy doktorandského štúdia

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

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

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

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

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Vanda Klöcklerová	interné štúdium hrazené z prostriedkov SAV	9 / 2018	4 / 2023	4.2.3 molekulárna biológia	RNDr. Dušan Žitňan DrSc., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Matej Medla	interné štúdium hrazené z prostriedkov SAV	9 / 2019	8 / 2023	1536 biológia	RNDr. Dušan Žitňan DrSc., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Hemen Sendi	interné štúdium hrazené z prostriedkov SAV	9 / 2019	8 / 2023	1536 biológia	Mgr. Peter Vršanský PhD., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Alžbeta Šujanová	interné štúdium hrazené z prostriedkov SAV	9 / 2018	3 / 2023	4.2.5 zoológia	Mgr. Radovan Václav PhD., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK

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

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

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Peter Pecina	interné štúdium hrazené z prostriedkov SAV	9 / 2017	8 / 2023	4.2.5 zoológia	doc. RNDr. Ľubomír Vidlička CSc., Ústav zoológie SAV, v. v. i.	Prírodovedecká fakulta UK

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2023 (obhajoba leto 2023)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
5	4	1	0	0

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

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia

Cotutelle	Co-direction	Iné	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín.

Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

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

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

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
biológia	1536	zoológia	Prírodovedecká fakulta UK
biológia	1536	molekulárna biológia	Prírodovedecká fakulta UK
biológia	1536	fyziológia živočíchov	Prírodovedecká fakulta UK
biológia	1536	mikrobiológia a virológia	Prírodovedecká fakulta UK
biológia	1536	genetika	Prírodovedecká fakulta UK
ekologické a environmentálne vedy	1610	ekológia a ochrana životného prostredia	Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov

<https://www.portalvs.sk/sk/studijne-odbory?from=menu1>. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.

Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.

Tabuľka 5h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
prof. Ing. Ladislav Hamerlík, PhD. (ekologické a environmentálne vedy)	prof. Ing. Ladislav Hamerlík, PhD. (Fakulta prírodných vied UMB)	Mgr. Barbara Mangová, PhD. (IIa)
prof. PaedDr. Pavol Prokop, DrSc. (ochrana a využívanie krajiny)	prof. PaedDr. Pavol Prokop, DrSc. (Prírodovedecká fakulta UK)	Mgr. Diana Selyemová, PhD. (IIa)
Ing. Ladislav Roller, PhD. (zoológia)	doc. RNDr. Ľubomír Vidlička, CSc. (Slovenské národné múzeum)	Mgr. Marek Semelbauer, PhD. (IIa)
doc. RNDr. Michal Stanko, DrSc. (zoológia)		prof. Ing. Ladislav Hamerlík, PhD. (prof., Fakulta prírodných vied UMB)
doc. RNDr. Ľubomír Vidlička,		

CSc. (ochrana a využívanie krajiny)		
Mgr. Peter Vršanský, PhD. (paleontológia)		
RNDr. Dušan Žitňan, DrSc. (molekulárna biológia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2023

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	5	1	3	1
Celkový počet hodín v r. 2023	102	1	69	1

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

Tabuľka 5j Aktivity pracovníkov na VŠ

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

5.9. Iné dôležité informácie k pedagogickej činnosti

V rokoch ovplyvnených pandémiou COVID nastúpilo na doktorandské štúdium na Ústav zoológie SAV kriticky nízky počet doktorandov. Tento negatívny trend sa podarilo v roku 2023 zvrátiť. Boli prijatí štyria noví doktorandi, z toho jeden zahraničný, ktorý je financovaný zo schémy Plánu obnovy a odolnosti SR. Okrem toho UZ SAV uzavrel zmluvu s PriF UK v Bratislave o externom školiacom pracovisku v študijných programoch (mikrobiológia a virológia; ekológia a ochrana životného prostredia, genetika). Veríme, že nám to rozšíri možnosti získavať mladých talentovaných študentov na riešenie moderných a často multidisciplinárnych výskumných zámerov. V roku 2023 úspešne ukončili doktorandské štúdium piati doktorandi, z toho štyria sa zamestnali na Ústave zoológie SAV.

Ústav zoológie SAV spolupracuje pri pedagogickej činnosti najmä s Prírodovedeckou fakultou UK, s Fakultou chemickej a potravinárskej technológie STU v Bratislave a Fakultou prírodných vied Univerzity Mateja Bella v Banskej Bystrici. Podstatnú časť pedagogickej činnosti na ÚZ SAV tvorí prednášková činnosť a vedenie absolventských prác na všetkých troch stupňoch vysokoškolského štúdia.

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: 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

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

Názov projektu: Developing best practices in butterfly conservation in Central and Eastern Europe

Agentúra: LIFE

číslo projektu: 101074487

Spolupracujúce inštitúcie: BROZ, Štátna ochrana prírody Slovenskej republiky, Fundatia ADEPT Transilvania, Őrségi Nemzeti Park

Koordinátor projektu: Bratislavské regionálne ochranárske združenie

Začiatok spolupráce: 2022

Koniec spolupráce: 2029

Zhodnotenie: 20150 EUR

Názov projektu: Zraniteľnosť vybraných prírodne a antropogénne narušených ekosystémov vo vzťahu k prebiehajúcej zmene klímy

Agentúra: VEGA

číslo projektu: 1/0392/22

Spolupracujúce inštitúcie: Lesnícka fakulta TU vo Zvolene

Koordinátor projektu: Lesnícka fakulta TU vo Zvolene

Začiatok spolupráce: 2022

Koniec spolupráce: 2025

Zhodnotenie: 1080 EUR

Názov projektu: Stanovenie funkcií spevu a perových ornamentov u lelka lesného (*Caprimulgus europaeus*) prostredníctvom časovania vokálnych aktivít a pomocou behaviorálneho experimentu

Agentúra: VEGA

číslo projektu: 1/0134/23

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK Bratislava

Koordinátor projektu: Prírodovedecká fakulta UK Bratislava

Začiatok spolupráce: 2023

Koniec spolupráce: 2026

Zhodnotenie: 1687 EUR

Názov projektu: Úloha bioindikátorov v identifikácii antropogénne vyvolaných zmien vodno-vzdušného režimu v pôdach s rôznym spôsobom využiti

Agentúra: VEGA

číslo projektu: 1/0315/23

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK V Bratislave

Koordinátor projektu: Prírodovedecká fakulta UK v Bratislave

Začiatok spolupráce: 2023

Koniec spolupráce: 2026

Zhodnotenie: 1835 Eur

Názov projektu: Bentický život v krasových prameňoch: Ekologická izolovanosť pramenného habitatu, funkčné zloženie a fylogenetická diverzita bentických organizmov

Agentúra: VEGA

číslo projektu: 1/0127/20

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK, Bratislava

Koordinátor projektu: Prírodovedecká fakulta UK, Bratislava

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie: 2422 EUR

Názov projektu: Reprodukčné stratégie vo vzťahu k akustickým parametrom a migračným

stratégiám: štúdie na trsteniarikovi bahennom (*Acrocephalus scirpaceus*) a strakošovi kolesárovi (*Lanius minor*)

Agentúra: VEGA

číslo projektu: 2/0065/20

Spolupracujúce inštitúcie: Prírodovedecká fakulta UK, Bratislava

Koordinátor projektu: Ústav zoológie SAV, v. v. i.

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie: 5573

Názov projektu: DNA barcoding Slovenska (SK-BOL), súčasť medzinárodnej iniciatívy International Barcode of Life (iBOL)

Agentúra: Štrukturálne fondy EÚ Bratislavský kraj

číslo projektu: ITMS2014+: 313021W683

Spolupracujúce inštitúcie: Slovenské národné múzeum, Bratislava

Koordinátor projektu: Slovenské národné múzeum, Bratislava

Začiatok spolupráce: 2021

Koniec spolupráce: 2023

Zhodnotenie: 29880 EUR

Názov projektu: Význam interakcií medzi ektoparazitmi pre prenos vektormi-prenášaných patogénov

Agentúra: VEGA

číslo projektu: 2/0023/20

Spolupracujúce inštitúcie: Španielsko: EEZA CSIC

Koordinátor projektu: Ústav zoológie SAV, v. v. i.

Začiatok spolupráce: 2020

Koniec spolupráce: 2023

Zhodnotenie: 5967

Názov projektu: Sieť pre výskum malárie u divožijúcich živočíchov

Agentúra: COST

číslo projektu: CA22108

Spolupracujúce inštitúcie: University of Lincoln, UK

Koordinátor projektu: University of Lincoln, UK

Začiatok spolupráce: 2023

Koniec spolupráce: 2027

Zhodnotenie: 833 EUR

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

Monitorovanie vplyvu VD Gabčíkovo na spoločenstvá vodných organizmov - perloočky a veslonôžky v rámci dohody medzi Slovenskom a Maďarskom, participácia na tvorbe Národnej správy vplyvu VDG 2023

Participácia na aktualizácii Červenej knihy SR - Bezstavovce v rámci širokého kolektívu autorov a spolupracujúcich inštitúcií pod gesciou Prírodovedeckej fakulty UK v Bratislave a Štátnou ochranou prírody SR.

Zmluvná spolupráca s Výskumným ústavom vodného hospodárstva na projekte LIFE Obnova a manažment dunajských lužných biotopov

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	16	tlač	7	TV	10
rozhlas	2	internet	8	exkurzie	2
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	1
iné	5				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
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7.3. Účasť na výstavách

Názov výstavy: Európska noc výskumníkov 2023

Miesto konania: Bratislava

Dátum: 29.9.2023

Zhodnotenie účasti: Na podujatí Európska noc výskumníkov 2023 priblížili verejnosti svoj vedecký výskum pod názvom NAUČME SA NEBÁŤ KLIEŠŤOV A INÝCH PARAZITOV aj viacerí pracovníci Ústavu zoológie SAV z oddelenia medicínskej zoológie ako Dr. Derdáková, Dr. Mangová, Dr. Rusňáková Taragel'ová, Dr. Selyemová, Dr. Šujanová a Dr. Didyk

Názov výstavy: Víkend so SAV 2023

Miesto konania: Bratislava

Dátum: 23.6.2023

Zhodnotenie účasti: Pri príležitosti osláv 70. výročia SAV sa konalo podujatie Víkend so SAV, kde mal svoj stánok aj Ústav zoológie SAV, ktorý reprezentovali vedci z oddelenia medicínskej zoológie a oddelenia ekológie živočíchov, a to Dr. Mangová, Dr. Didyk, Dr. Kokavec a Dr. Navara. Návštevníkom priblížili zaujímavosti z výskumu kliešťov a vodných biotopov.

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

7.5. Členstvo v redakčných radách časopisov

RNDr. Alžbeta Darolová, CSc.

Tichodroma (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Tick and Tick Borne Diseases (funkcia: section editor)

Ticks and Tick Borne Diseases (funkcia: section editor)

prof. Ing. Ladislav Hamerlík, PhD.

Quaestiones Rerum Naturalium (QRN) (funkcia: člen redakčnej rady)

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 și Comunicări, Științele 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)

Mgr. Olha Zhovnerchuk, PhD.

Ukrainian Journal of Natural Sciences (funkcia: člen redakčnej rady)

RNDr. Dušan Žitňan, DrSc.

General and Comparative Endocrinology (funkcia: člen)

7.6. 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)

prof. Ing. Ladislav Hamerlík, PhD.

Slovenská limnologická spoločnosť (funkcia: člen výboru)

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 Krištofik, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Barbara Mangová, PhD.

Slovenská arachnologická spoločnosť - SARAS (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. Veronika Rusňáková Taragel'ová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: členka)

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)

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

a) vedecko-organizačné aktivity

V roku 2023 sa Ústav zoológie SAV, v. v. i. zapojil do pomoci ukrajinským vedcom, ktorí boli nútení odísť z Ukrajiny. Ústav zamestnával akarologičku Mgr. Olhu Zhovnerchuk, PhD., ktorá získala Štipendium pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine.

b) popularizačné aktivity

Vedci Ústavu zoológie SAV, v. v. i. sú aktívnymi popularizátormi svojej vedeckej práce. Prezентujú seba, svoj výskum ako aj ústav vo viacerých významných rozhlasových (Nočná pyramída - Dr. Gáliková, Dr. Rusňáková Tarageľová, Dr. Šustek) a televíznych reláciách (Moja diagnóza - Dr. Derdáková, Správy - Dr. Michalková) a reportážach (Dr. Semelbauer, Dr. Šustek, Dr. Kazimírová, Mgr. Samay). Mnohí poskytujú rozhovory pre časopisy alebo píšú články a prispievajú tak svojimi vedomosťami a skúsenosťami k popularizácii vedy a výskumu (Dr. Gáliková, Dr. Derdáková, Dr. Kazimírová, Dr. Semelbauer, Dr. Takáč, prof. Prokop), zúčastňujú sa prednášok a besied za účasti verejnosti, študentov, škôl (Dr. Derdáková, Dr. Rusňáková Tarageľová, Dr. Mangová, Mgr. Samay, Dr. Michalková, Dr. Semelbauer) a organizujú či vedú pre študentov exkurzie (Dr. Gáliková, Dr. Vidlička) a olympiády (Dr. Roller). Okrem toho v roku 2023 bol založený účet na sociálnej sieti facebook pod názvom Ústav zoológie SAV, kde prispievajú viacerí zamestnanci krátkymi správami, článkami, fotografiami a zaujímavými videami z výskumov a terénov, ktoré približujú širokej verejnosti prácu vedca a významné udalosti z prostredia ústavu.

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

V roku 2023 bola organizovaná na Ústave zoológie exkurzia pre žiakov druhého ročníka Súkromnej strednej odbornej školy veterinárnej. Zúčastnilo sa jej 23 žiakov pod vedením učiteľa MVDr Milana Kopčoka. Pracovníci a vedci ústavu pripravili žiakom ukážky chovov hmyzu používaného na vedecké účely, prácu v laboratóriu a prednášky približujúce problematiku, ktorou sa jednotlivé laboratóriá a vedci zaoberajú. O program sa postarali Dr. Roller, Dr. Žitňan, Dr. Klepsatel, Dr. Slovák, Dr. Vidlička, Dr. Semelbauer, Mgr. Knoblochová a Alexander Baranovič.

Bola zorganizovaná celoštátna stredoškolská súťaž pod záštitou ministra s účasťou 252 žiakov a s vysadením 6156 pôvodných neovocných stromov. Víťazi sa zúčastnili mesačnej expedície do Japonska, kde dosiahli významné vedecké a ochranárske výsledky vrátane vyhodnotenia teploty pravekých požiarov vo vrstvách so švábmi a dinosaurami, a prípravy hlavného článku pre BBC o Jakušime – mieste s možnože najstaršími stromami sveta. Účastníci súťaže sa podieľali na spracovaní najstaršieho a druhého najvýznamnejšieho jantáru sveta (Jordánsko-Libanon-Sýria).

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
RNDr. 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

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 vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

9.3. Členstvo v komisiách SAV

Ing. Ladislav Roller, PhD.

- Komisia SAV pre zahraničné styky (člen)

RNDr. Dušan Žitňan, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

9.4. Členstvo v orgánoch VEGA

prof. 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)

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

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Ústav zoológie SAV postupne zavádza princípy stratégie riadenia ľudských zdrojov HRS4R, ktoré sú dôležité pre zabezpečenie efektívneho fungovania a rozvoja našej vedeckej inštitúcie. Implementácia princípov HRS4R má pomôcť k prilákaní a udržaniu kvalitných výskumníkov. Vzhľadom na slabé financovanie vedy a výskumu na Slovensku je však práve udržanie talentovaných výskumníkov veľmi náročnou úlohou. Ústavu sa napriek tomu darí aktívne spolupracovať, zamestnávať alebo školiť vedcov a študentov z mnohých krajín Európy, Ázie, USA a Afriky.

Vytvorenie stimulujúceho pracovného prostredia je ďalším dôležitým aspektom uplatňovania HRS4R. Zabezpečenie optimálnych pracovných podmienok pre všetkých zamestnancov je trvalým cieľom vedenia ústavu. Ústav dlhodobo a pomerne úspešne rozširuje a modernizuje výskumnú infraštruktúru a početne sa zapája do výziev, ktoré umožňujú nielen materiálny rozvoj inštitúcie ale aj spoluprácu a výmenu nápadov medzi zamestnancami.

Zameriame sa tiež na to, aby sa princípy HRS4R zohľadňovali v celej škále činností Ústavu zoológie SAV, vrátane náboru, hodnotenia výkonnosti, rozvoja zamestnancov a riadenia konfliktov. Otvorená a inkluzívna kultúra, kde sa každý zamestnanec cíti vypočutý, ocenený a motivovaný, je kľúčom k úspechu.

Uveďte stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Ústav zoológie SAV uplatňuje politiku rodovej rovnosti a netoleruje žiadnu formu diskriminácie svojich zamestnancov na základe pohlavia, národnosti, rasy alebo sexuálnej orientácie. V rámci tejto otvorenej a inkluzívnej praxe aktívne spolupracujeme, poskytli sme a poskytujeme odborné vzdelávanie viacerým vedcom a študentom z mnohých krajín Európy, Ázie, USA a Afriky. Pri hodnotení našich zamestnancov a členov tímu sa zohľadňujú výlučne kritériá ako produktivita, kreativita, odbornosť, praktické zručnosti a motivácia učiť sa a rozvíjať nové techniky, ktoré môžu prispieť k získaniu zaujímavých a originálnych údajov. Podporujeme tiež rovnaké príležitosti a schopnosť komunikovať, spolupracovať, poskytovať pomoc a zdieľať vedomosti medzi členmi všetkých oddelení.

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

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

Tabuľka 10a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	10	6	4	7	5	2
2. Projekty APVV	4	2	2	1	1	0
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	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.)	6	4	2	0	0	0

Tabuľka 10b Rodová skladba hlavných riešiteľov medzinárodných projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty Horizont 2020 a Horizont Európa	0	0	0	0	0	0
2. Projekty ERA.NET, ESA, JRP	0	0	0	0	0	0
3. Projekty COST	0	0	0	1	1	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 (SAV, APVV a iné)	0	0	0	1	1	0
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Ústav zoológie SAV, v. v. i. nevykonáva výskum zameraný na rodovú problematiku.

Uvedte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

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

Základné informácie o pracovných a sociálnych podmienkach zamestnancov obsahuje Pracovný poriadok ÚZ SAV, v. v. i.. Na ústave pôsobí základná odborová organizácia, ktorá je členom Odborového zväzu SAV, a ktorá má s vedením ústavu uzavretú kolektívnu zmluvu. Táto kolektívna zmluva poskytuje pracovníkom viaceré benefity nad rámec Zákonníka práce alebo Kolektívnej zmluvy vyššieho stupňa (príspevky ústavu do DDP, zamestnanec pri odchode dostáva 1 plat navyše, zvýšené príspevky na stravné). Zástupca odborovej organizácie je prizývaný na zasadnutia ústavnej rady a spolu s vedením ústavu sa podieľa na vytváraní a udržiavaní vhodných pracovných a sociálnych podmienok pracovníkov a dodržiavaní zásad bezpečnosti práce. Odborová organizácia tiež participuje na riešení prípadných kolektívnych, ako aj individuálnych nárokov zamestnancov. Finančné prostriedky zo sociálneho fondu pracovníkov ústavu sú čerpané na základe dohody medzi odborovou organizáciou a vedením ústavu, pričom sú použité na príspevky na stravovanie, príspevky na dopravu do zamestnania a spoločné spoločenské akcie pracovníkov ÚZ SAV, v. v. i.. Členská základňa odborovej organizácie ÚZ SAV, v. v. i. je však pomerne malá a vo vyššom veku. V budúcnosti bude potrebné rozšíriť rady členov odborovej organizácie a povedomie zamestnancov o jej význame.

Uvedte stručné, základné informácie k problematike.

11. Organizačné a právne zmeny v organizácii

11.1. Informácie o vnútorných organizačných zmenách

Dňa 27.3.2023 vzniklo na ÚZ SAV nové Oddelenie genetiky a ekofyziológie.

Uved'te stručné, základné informácie k problematike.

11.2. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

27. novembra 2023 došlo k zmene zakladacej listiny, v ktorej boli

- aktualizované názvy a kódy odborov vedy a techniky podľa smernice MŠVVaŠ SR č. 55/2022.
- doplnený nový odbor činnosti ústavu: evolučná biológia (010607)
- zmenený počet členov Vedeckej rady z piatich (3 + 2) na deviatich (6 + 3).

Uved'te stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Tabuľka 12a Knižničný fond

Knižničné jednotky spolu		15928
z toho	knihy a zviazané periodiká	13977
	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		10
z toho zahraničné periodiká		8
Ročný prírastok knižničných jednotiek		20
v tom	kúpou	0
	darom	0
	výmenou	20
	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“.

12.2. Výpožičky a služby

Tabuľka 12b Výpožičky a služby

Výpožičky spolu (riadok 1)		58
v tom z r. 1	prezenčné výpožičky	58
	absenčné výpožičky	0
v tom z r. 1	odborná literatúra pre dospelých	0
	výpožičky periodík	58
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0

Počet vypracovaných bibliografií	0
Počet vypracovaných rešerší	0

12.3. Používatelia

Tabuľka 12c Používatelia

Registrovaní používatelia	10
Návštevníci knižnice spolu (bez návštevníkov podujatí)	12

12.4. Iné údaje

Tabuľka 12d Iné údaje

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

12.5. Iné informácie o knižničnej činnosti

13. Nadácie a fondy pri organizácii

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

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

Posledné hodnotenie ÚZ SAV v.v.i. akreditačnou komisiou dopadlo veľmi dobre (A/B).

Silné stránky. Pracovisko sa neustále rozvíja a počas svojej 30 ročnej existencie dosiahlo veľmi zaujímavé výsledky publikované v kvalitných vedeckých časopisoch a monografiách. Dá sa konštatovať, že jeho vedecká produktivita neustále rastie. Kvantitatívne ale aj kvalitatívne ukazovatele publikačných výstupov dosiahli v akreditačnom období 2016-2021 vysokú úroveň čo bolo ohodnotenú známku A/B. Porovnateľná úroveň, a v prípade citácií najvyššia v histórii ústavu, bola dosiahnutá aj v rokoch 2022 a 2023. ÚZ SAV bol v poslednej akreditácii ústavov SAV hodnotený známku A/B tiež za spoločenský, kultúrny a hospodársky dosah a stratégiu a rozvojový potenciál.

Slabé stránky. Medzinárodná akreditačná komisia hodnotiaca činnosť ústavu v 2016-21 identifikovala nasledovné slabé stránky a rezervy: vysokú diverzitu a prekryv riešených tém, nižší podiel pracovníkov ÚZ SAV na najkvalitnejších publikačných výstupoch ústavu, nedostatočné financovanie z externých zdrojov - najmä z ERC, nízka obsadenosť doktorandských pozícií a úspešnosť v získavaní excelentných výskumníkov. Medzi ďalšie potenciálne slabiny patrí aj nízky počet aktuálne riešených rozvojových projektov (APVV a zahraničné granty) a starnúca infraštruktúra zadovážená prevažne z projektov predchádzajúceho programového obdobia ŠF EU.

Vedenie ústavu dáva veľký dôraz na odporúčania hodnotiaceho panelu a systematicky usiluje o implementáciu opatrení na zlepšenie kvality vedeckých výstupov a programu doktorandského štúdia. Naše úsilie smeruje k získavaniu domácich aj zahraničných projektov, ktoré by nám umožnili financovať ďalších vedeckých pracovníkov a rozšíriť výskumnú infraštruktúru. Projekt LIFE môže slúžiť ako príklad, kde sú dostupné finančné prostriedky na prijatie produktívnych vedcov a na nákup potrebných prístrojov. Rovnako venujeme primeranú pozornosť rozvoju spolupráce s domácimi aj zahraničnými odborníkmi, čo je nevyhnutné pre efektívne využívanie dostupných intelektuálnych a finančných zdrojov.

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

1. Zvyšovanie kvality výstupov výskumu

Ústav dosahuje dlhodobo dobré výsledky vo výkonových parametroch publikačných výstupov (počet prác na vedeckého pracovníka, počet citácií, podiel publikácií v Q1 a Q2 časopisoch). Na asi polovici z najkvalitnejších publikačných výstupov v minulom akreditačnom období však nebol podiel ústavu zásadný. Cieľom vedenia je preto podporovať publikovanie v čo najkvalitnejších časopisoch (v prvom kvartile) s hlavným podielom pracovníkov ústavu. K stimulácii zamestnancov slúži odmeňovanie vedeckých pracovníkov, ktoré zohľadňuje okrem impakt faktoru a kvartilu vedeckých časopisov aj podiel autora na publikácii (zvýhodnenie prvého a korešpondujúceho autora). Toto odmeňovanie sa na ÚZ SAV dlhodobo uplatňuje a je potrebné ho zachovať v pôvodnej či vylepšenej forme.

Napriek ambícii produkovať čo najkvalitnejšie vedecké výsledky vo vlastnej réžii je dôležité aby ÚZ SAV rozvíjal spoluprácu s renomovanými domácimi a zahraničnými ústavmi a univerzitami, ktoré majú podobné výskumné zameranie. Dobré riadená a koordinovaná spolupráca prináša zaujímavé výsledky a poskytuje príležitosti na získanie finančných prostriedkov z medzinárodných

zdrojov. Spolupráca a výmeny so zahraničnými tímami sú zvyčajne veľmi motivujúce, najmä pre mladých a perspektívnych pracovníkov. Viacerí zamestnanci majú úzke kontakty s pracoviskami v rôznych krajinách Európy, USA a Ázie, takže možno predpokladať, že tieto spolupráce sa budú ďalej rozvíjať.

2. Zvyšovanie kvality doktorandského štúdia

Napriek intenzívnej konkurencii zo zahraničných univerzít, akademických inštitúcií a rôznych firiem, je ÚZ SAV pomerne úspešný v získavaní nových talentovaných doktorandov nielen zo Slovenska, ale aj zo zahraničia. Avšak, vplyvom pandémie COVID-19 sa počet novoprijatých doktorandov výrazne znížil, čo má za následok, že v nasledujúcom akademickom roku bude na ústave pôsobiť len 6 doktorandov, hoci dlhodobo dosahoval priemerný počet 8-9. Hodnotiaci panel taktiež upozornil na nedostatočný počet dokončených dizertačných prác (iba 10 doktorandov za posledných 6 rokov) počas posledného akreditačného obdobia. Preto budeme stimulovať potenciálnych školiteľov k zvýšenej resp. efektívnejšej pedagogickej činnosti na partnerských univerzitách vrátane získavania a školenia perspektívnych bakalárov a diplomantov. Kritériá pri výbere školiteľov sú jasne definované v akčnom pláne a štatúte Vedeckej rady, ktorá má dôležitú úlohu pri posudzovaní úspešnosti riešenia dizertačných prác a kvality spolupráce medzi doktorandmi a ich školiteľmi. Pre udržanie kvality doktorandského štúdia bude nutné dôsledne podporovať organizovanie seminárov pre doktorandov a mladých vedeckých pracovníkov, účasť na krátkodobých pobytoch na zahraničných pracoviskách, konferenciách a tréningových programoch pre doktorandov (napr. Doktogranty). V roku 2023 došlo k nárastu prijatých študentov na doktorandské štúdium. Na ÚZ SAV nastúpili traja domáci a jeden zahraničný študent.

3. Kariérny rast postdoktorandov a výskumníkov

Úspešný rozvoj vedeckej inštitúcie závisí od kvalitných a produktívnych pracovníkov, ktorí sú schopní prilákať a vychovať ďalšiu generáciu schopných a pracovitých vedcov. Zabezpečenie osobného a kariérneho rastu je preto dôležitou a pritom veľmi delikátnou úlohou každého pracoviska. Veľkou výzvou pre nové vedenie bude udržanie nadaných a úspešných doktorandov po ukončení ich štúdia. Zároveň je potrebné vytvoriť mzdové podmienky pre flexibilné získanie produktívnych vedeckých pracovníkov, najmä vracajúcich sa zo zahraničia, ktorí vyžadujú pomerne vysoké osobné ohodnotenie. Veríme, že súčasná mzdová politika SAV nebude brzdou pri vytváraní dlhodobých pracovných miest pre takýchto pracovníkov.

V roku 2023 boli štyria úspešne ukončení doktorandi prijatí na plný pracovný úväzok. Jeden z nich získal následne štipendium Štefana Schwarza a ďalší získal štipendium na postdoktorandský pobyt v Litve. Traja vedeckí pracovníci si zvýšili vedeckú kvalifikáciu na stupeň II.a. ÚZ SAV tiež podporilo aplikácie o projekty podané v rámci výzvy Štipendiá pre excelentných výskumníkov a výskumníčky (R2-R4) u štyroch vedeckých pracovníkov ústavu.

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 roku 2023 sme boli zapojení v spolupráci so SNM do riešenia projektu zo Štrukturálnych fondov. Naši pracovníci riešia medzinárodné projekty UNESCO a nový významný projekt LIFE, ktorý je financovaný na 6 rokov. Na ÚZ SAV sa rieši aj projekt z programu MoRePro. V roku 2023 boli zamestnanci ÚZ SAV zapojení v troch žiadostiach v rámci programu Horizont 2020 (1 v pozícii hlavného riešiteľa a 2 v pozícii spoluriešiteľa). 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 sme hlavnými riešiteľmi 10 projektov VEGA a spoluriešitelia 7 ďalších. Z APVV sme úspešne získali podporu pre štyri projekty ako hlavní riešitelia a pre jeden projekt ako spoluriešitelia. Okrem toho sme v roku 2023 podali osem žiadostí (šesť ako žiadatelia a dve ako partneri) v rámci grantových schém APVV. Vedeckí zamestnanci sú na projektoch VEGA zapojení svojou plnou riešiteľskou kapacitou. Predpokladáme, že sa zapojenie našich zamestnancov v projektoch APVV zvýši v priebehu roku 2024. S ohľadom na skutočnosť, že vedenie alebo účasť na projektoch financovaných predovšetkým z domácich zdrojov (VEGA, APVV) je základnou povinnosťou každého vedeckého pracovníka, nemáme vypracovaný špecifický 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

ÚZ SAV bol v minulosti úspešný aj pri získavaní projektov aplikovaného výskumu a aj niektoré výskumné témy (v oblasti ochrany prírody, biodiverzity, zdravia ľudí a zvierat), ktoré sa v súčasnosti riešia, majú potenciálne využitie v praxi.

V súčasnosti je aktívny patent s názvom „Novel thrombin inhibitors“ (PCT/SG2016/050278) podaný vo viac ako 15 štátoch po celom svete (napr. EU, India, Čína, USA). 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 Vedeckou radou pravidelne monitoruje využitie nových prístrojov a aktívne odstraňuje identifikované nedostatky. Niektoré z týchto prístrojov sú využívané aj kolegami z iných ústavov SAV a univerzít. Na našej webovej stránke sme zverejnili informácie o možnostiach využitia týchto významných prístrojov pre záujemcov z vedeckej obce SAV aj z ostatných výskumných inštitúcií.

V roku 2023 sme sa úspešne zapojili do výziev z Plánu obnovy a odolnosti Slovenskej republiky, ako sú Transformačné a inovačné konzorciá, Veľké projekty pre excelentných výskumníkov a Kapitálový booster pre schémy na podporu výskumu a vývoja. Tieto iniciatívy spolu s bežiacim LIFE projektom môžu významne prispieť k modernizácii výskumnej infraštruktúry na ÚZ SAV.

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

Vedenia ÚZ SAV venovali veľké úsilie a čas na úspešný rozvoj všetkých vedeckých odvetví, ktoré sa na tomto pracovisku riešia. Považujeme za kľúčové 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, je neoddeliteľnou súčasťou práce vedeckých pracovníkov na ÚZ SAV. Pre udržanie chodu laboratórií a ďalší rozvoj výskumu je rovnako dôležitá stimulácia pracovníkov ústavu k zapojeniu sa do novovznikajúcich domácich a medzinárodných tímov, ktoré majú schopnosť získať finančné prostriedky zo zdrojov EU.

15. Iné významné činnosti organizácie SAV

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

Informácie, ktoré je ústav povinný zverejniť v súlade s § 5 zákona č. 211/2000 Z. z. o slobodnom prístupe k informáciám a o zmene a doplnení niektorých zákonov, sú uvedené na webovej stránke organizácie: <https://zoo.sav.sk>

Informácie sú sprístupnené spravidla prostredníctvom elektronickej pošty alebo ústne, v zákonom stanovenej lehote a bezplatne.

Žiadosti podané v roku 2023 sa väčšinou týkali informácií o voľných pracovných miestach. Okrem toho sa ústav venoval aj "službe verejnosti" v rámci projektu Otvorená akadémia kde sa riešili napríklad otázky týkajúce sa identifikácie rôznych invázných živočíchov, domácich škodcov a parazitov. Najčastejšie sa jedná o identifikáciu mravcov, švábov, molí, kliešťov a hmyzích škodcov na potravinách.

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

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

Trvalým cieľom vedenia ústavu v spolupráci s Predsedníctvom SAV (P SAV) by malo byť odstránenie základných prekážok, ktoré bránia normálnemu rozvoju pracovísk na Slovenskej akadémii vied. Tieto prekážky zahŕňajú:

- 1) Slabé a neefektívne financovanie vedy v SR, čo sa prejavuje nedostatočnou možnosťou získania rozvojových projektov a primeraného mzdového ohodnotenia z domácich zdrojov.
- 2) Vysokú administratívnu záťaž, ktorá sa transformáciou na verejné výskumné inštitúcie neznížila.

Pozitívnym krokom P SAV je pravidelné hodnotenie organizácií SAV medzinárodným hodnotiacim panelom. Taktiež podporujeme zvýšenie podielu výkonového financovania na celkovom mzdovom rozpočte ústavu ako jeden z hlavných motivačných nástrojov pre zlepšenie vedeckej činnosti organizácií SAV.

UZ SAV však považuje súčasný spôsob pridelovania mzdových prostriedkov organizáciám SAV za priamy rozpor s deklarovanou možnosťou voľnejšieho využívania pridelených financií po transformácii na verejné výskumné inštitúcie. To bráni manažmentu organizácie vytvárať rezervy alebo motivačné programy, ktoré by pomohli zlepšiť slabé stránky organizácie.

Tiež by sme uvítali zriadenie servisného pracoviska, ktoré by pomáhalo pri administratívnej činnosti organizácií SAV. V prípade získania veľkých projektov z výziev Plánu obnovy a odolnosti SR, na ktoré sa ústavy SAV početne uchádzali, je opodstatnenosť vzniku takéhoto pracoviska nanajvýš aktuálna.

Uved'te informácie a podnety v súlade s názvom kapitoly.

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

Vedecká rada Ústave zoológie SAV, v. v. i. hodnotila výsledky výskumnej činnosti inštitúcie a jej spôsobilosť vykonávať výskumnú činnosť na základe porovnania kvantity a kvality vedeckých prác publikovaných v roku 2023 v porovnaní s publikačnou aktivitou organizácie v predchádzajúcich rokoch. Vo svojom hodnotení tiež zohľadňuje úroveň a počet výskumných projektov riešených zamestnancami Ústavu zoológie SAV, v. v. i., ako aj kvalitu výstupov riešených projektov.

V roku 2023 bolo v impaktovaných časopisoch publikovaných celkovo 44 pôvodných vedeckých prác, z toho 38 prác v zahraničných impaktovaných časopisoch (ADCA, ADMA) a 6 prác v domácich impaktovaných časopisoch (ADDA, ADNA) (Tabuľka 1). Celkový počet prác je teda porovnateľný s množstvom prác publikovaných v predchádzajúcich štyroch rokoch. Z hľadiska posúdenia vedeckého výkonu ústavu je však dôležitá aj kvalita časopisov, v ktorých boli práce publikované a neposlednom rade tiež počet prác, na ktorých mali pracovníci ústavu významný podiel, t. j. figurovali na pozícii prvého alebo korešpondujúceho autora (Tabuľka 2). Kým podiel prác v kvalitnejších vedeckých časopisoch (časopisy s prideleným kvartilom Q1 a Q2) je porovnateľný s predchádzajúcimi rokmi (38 publikácií), počet publikácií, na ktorých zamestnanci ústavu figurujú ako prví alebo korešpondujúci autori má rastúci trend (29 publikácií, čo predstavuje 66% celkového počtu impaktovaných prác a zároveň najvyššiu hodnotu tohto podielu v porovnaní s predošlými rokmi). Pozitívnym trendom je aj nárast počtu publikácií v Q1 a Q2 časopisoch, na ktorých zamestnanci ústavu tvorili dominantnú časť autorského kolektívu (21 publikácií, t. j. 47.7% celkového počtu impaktovaných prác). Tento faktor hodnotí Vedecká rada pozitívne, keďže považujeme za dôležité podporovať kvalitný výskum, ktorého kľúčovými riešiteľmi sú kmeňoví zamestnanci inštitúcie a vzniká z významnej časti na pôde ústavu. Celkovo teda možno konštatovať pozitívny trend v kvalite publikovaných prác a v príspevku vedeckých pracovníkov ústavu a jeho infraštruktúry na týchto prácach.

Tabuľka 1. Počet publikačných výstupov ÚZ SAV, v. v. i. v jednotlivých kategóriách za posledných päť rokov

	2019	2020	2021	2022	2023
AAA	-	2	1	-	-
AAB	1	1	1	-	-
ABA	1	-	2	2	-
ABB	-	1	-	-	-
ADCA	28	35	33	34	32
ADDA	4	5	5	6	6
ADMA	9	5	5	7	6
ADNA	-	-	-	1	-
Spolu imp.	41	45	43	48	44

Na udržanie a ďalšie zvyšovanie kvality výskumnej činnosti inštitúcie, Vedecká rada odporúča zavedenie pravidelného a systematického hodnotenia vedeckej aktivity jednotlivých vedeckých a odborných zamestnancov ústavu v 4–5 ročných intervaloch. Pri prijímaní nových zamestnancov tiež navrhujeme uprednostňovať vedeckých pracovníkov, ktorí budú väčšinu svojho pracovného času

fyzicky prítomní na pracovisku ÚZ a budú sa tam zúčastňovať na vedeckej a pedagogickej činnosti. VR nepovažuje za optimálne prijímanie spolupracovníkov, zároveň pôsobiacich aj na iných inštitúciách alebo organizáciách, len na základe spolupráce na niektorých projektoch inštitúcie. Odporúčame pravidelne monitorovať celkový prínos takýchto zamestnancov pre vedecký rozvoj ústavu a v prípade potreby prehodnotiť predĺženie ich úväzkov.

V tomto kontexte VR pozitívne hodnotí skutočnosť, že v posledných rokoch boli na 100% úväzok prijatí až štyria úspešne skončení študenti doktorandského štúdia, pričom všetci z nich realizovali svoje dizertačné práce na pracovisku pod vedením školiteľov z Ústavu zoológie. Ide teda o mladých perspektívnych vedeckých pracovníkov, už etablovaných vo svojich riešiteľských kolektívoch a teda aj s dobrým potenciálom pomerne rýchlo začať prispievať k publikačným výstupom pracoviska. VR odporúča podporovať a dohliadať na ich profesijný rast a postupné zvyšovanie vedeckej kvalifikácie.

Tabuľka 2. Kvalitatívne ukazovatele publikačnej činnosti ÚZ SAV, v. v. i. za posledných päť rokov

Ukazovateľ (počet)	2019	2020	2021	2022	2023
Vedeckí a odborní pracovníci (FTE)	28	27	30	33	31
Impaktované práce	41	45	43	48	44
Prvý alebo korešp. autor v IF prácach	21	19	21	25	29
Q1 a Q2 práce SJR	31	36	29	31	38
Ohlasy WOS a SCOPUS	1459	1806	1786	2372	2309

Na Ústave zoológie SAV, v. v. i. bolo v roku 2023 riešených sedemnást' projektov VEGA, päť projektov APVV a po jednom projekt OP ŠF EU, UNESCO, LIFE a COST. Celkový objem finančných prostriedkov čerpaných v roku 2023 predstavuje 496 014 eur. Viaceré projekty z domácich agentúr (jeden APVV a päť VEGA projektov) a projekt OP ŠF EU boli v roku 2023 ukončené. Zamestnanci ÚZ zároveň podali 8 žiadostí (6 v pozícii hlavného riešiteľa a 2 v pozícii spoluriešiteľa) o poskytnutie finančných prostriedkov v rámci grantových schém APVV a 3 žiadosti v rámci programu *Horizont Europe* (1 v pozícii hlavného riešiteľa a 2 v pozícii spoluriešiteľa). Vzhľadom na počet zamestnancov ÚZ považuje VR množstvo bežiacich projektov za dostatočné, apeluje však na angažovanosť jednotlivcov, aj kolektívov pri podávaní žiadostí na získanie domácich, a tiež medzinárodných projektov v programoch EÚ, aby bolo priebežne zabezpečené dostatočné financovanie výskumných aktivít pracoviska, a tiež na posilnenie spolupráce s inými inštitúciami alebo praxou.

Pracovisko sa vyznačuje pomerne kvalitnou a modernou prístrojovou infraštruktúrou (napr. konfokálny mikroskop, digitálna PCR), ktorá bola zadovážená predovšetkým vďaka projektom z predchádzajúceho programového obdobia ŠF EU. V roku 2023 bol napr. zakúpený nový stereomikroskop a ďalšie príslušenstvo na mikroskopiu, ako aj dve osobné motorové vozidlá na služobné cesty zamestnancov ústavu. Udržiavanie a ďalší rozvoj priestorovej a prístrojovej infraštruktúry ústavu by mal zodpovedať aktuálnym potrebám a vedeckovýskumnej profilácii ústavu. Vzhľadom na nedostupnosť kapitálových finančných prostriedkov z projektov domácich grantových schém je pre ďalší rozvoj ústavu z tohto hľadiska nevyhnutné pokračovať v úspešnom získavaní európskych a medzinárodných projektov.

Záverom Vedecká rada konštatuje, že Ústav zoológie SAV, v. v. i. je spôsobilý vykonávať

výskumnú činnosť a vedecko-výskumné parametre si zatiaľ udržiava na porovnateľnej úrovni ako predchádzajúce roky. Stredno- a dlhodobým cieľom ústavu by však malo byť zlepšovanie všetkých výkonnostných parametrov a to predovšetkým podporovaním kmeňových výskumných kolektívov, orientáciou na kvalitu výstupov, zapájaním sa do domácich a medzinárodných vedeckých projektov a konzorcií a výchovou a podporovaním kariérneho rastu mladých perspektívnych vedeckých pracovníkov.

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

Schválila vedecká rada organizácie SAV dňa 30.1.2024

Mgr. Ivana Daubnerová, PhD.
predseda vedeckej rady

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

Mgr. Igor Kokavec, PhD., 02/5930 2612

Ing. Ladislav Roller, PhD., 02/5930 2640

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

Bratislava, 14.2.2024

Ing. Ladislav Roller, PhD.

riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1**Zoznam zamestnancov a doktorandov organizácie k 31.12.2023****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	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.	40	0.30
4.	MVDr. Yuliya Didyk, PhD.	100	1.00
5.	Mgr. Martina Gálíková, PhD.	100	1.00
6.	prof. Ing. Ladislav Hamerlík, PhD.	90	0.46
7.	RNDr. Mária Kazimírová, CSc.	100	1.00
8.	Mgr. Peter Klepsatel, PhD.	100	1.00
9.	RNDr. Juraj Kočí, PhD.	80	0.90
10.	RNDr. Ján Krištofík, CSc.	60	0.60
11.	Mgr. Pavol Littera, PhD.	50	0.50
12.	Mgr. Barbara Mangová, PhD.	100	1.00
13.	RNDr. Peter Mašán, PhD.	100	1.00
14.	Mgr. Veronika Michalková, Ph.D.	100	1.00
15.	Ing. Ladislav Roller, PhD.	100	1.00
16.	Mgr. Veronika Rusňáková Taragel'ová, PhD.	100	1.00
17.	Mgr. Diana Selyemová, PhD.	100	1.00
18.	Mgr. Marek Semelbauer, PhD.	100	1.00
19.	RNDr. Mirko Slovák, CSc.	100	1.00
20.	Ing. Zbyšek Šustek, CSc.	10	0.01
21.	RNDr. Peter Takáč, CSc.	20	0.20
22.	Mgr. Radovan Václav, PhD.	100	1.00

23.	doc. RNDr. Ľubomír Vidlička, CSc.	100	1.00
24.	Mgr. Peter Vršanský, PhD.	60	0.60
Vedeckí pracovníci			
1.	Mgr. Michal Chvostáč, PhD.	100	1.00
2.	Mgr. Vanda Klöcklerová, PhD.	100	1.00
3.	RNDr. Kamila Kočí, PhD.	40	0.33
4.	Mgr. Igor Kokavec, PhD.	100	1.00
5.	Mgr. Matej Medla, PhD.	100	0.83
6.	RNDr. Tomáš Navara, PhD.	100	1.00
7.	Ing. Tomáš Olšovský, PhD.	50	0.50
8.	Mgr. Emanuel Procházka, PhD.	100	1.00
9.	Mgr. Hemen Sendi, PhD.	100	0.33
10.	RNDr. Daniel Sojka, PhD.	50	0.50
11.	Mgr. Alžbeta Šujanová, PhD.	100	1.00
12.	Mgr. Veronika Urbanová, PhD.	50	0.37
13.	Mgr. Olha Zhovnerchuk, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Diana Knoblochová	10	0.10
2.	Mgr. Andrea Koblišková	100	0.75
3.	Mgr. Sanjay Ramnarayan Yadav	20	0.20
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Bc., Ing. Mária Lindorová	20	0.20
2.	Mgr. Dagmar Práznovská	100	1.00
3.	Ing. Danko Sitarčíková	100	1.00
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	150	1.50
2.	Andrej Boroš	100	0.52
3.	Lýdia Drinková	100	1.00
4.	Michal Fečák	50	0.33
5.	Daniel Kosa	100	1.00
6.	Jana Kušnírová	100	1.00
7.	Eva Vráblová	100	1.00
Ostatní pracovníci			
1.	Pavol Haris	100	0.83
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.	Mgr. Jana Kráľovičová, PhD.	31.8.2023	0.33
Vedeckí pracovníci			
1.	Mgr. Mário Duchoň	30.6.2023	0.30
2.	Mgr. Ján Kočišek, PhD.	28.2.2023	0.16
3.	Mgr. Mário Šereš, PhD.	31.8.2023	0.16
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Elena Bitterová	31.3.2023	0.25
2.	Bc. Ružena Mastišová	21.7.2023	0.58
3.	Mgr. Lucia Pavlíková, PhD.	31.8.2023	0.16
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Andrej Makara, CSc.	31.8.2023	0.25
Odborní pracovníci ÚSV			
1.	Pavel Forgáč	31.8.2023	0.20
2.	Tibor Forgáč	31.8.2023	0.20
3.	Martin Jagelka	31.8.2023	0.25
Ostatní pracovníci			
1.	Pavol Haris	31.12.2023	0.83

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Emma Buchová	Univerzita Komenského v Bratislave	1536 biológia
2.	Mgr. Diana Knoblochová	Univerzita Komenského v Bratislave	1536 biológia
3.	Mgr. Slávka Purgatová	Univerzita Komenského v Bratislave	1536 biológia
4.	Mgr. Ján Samay	Univerzita Komenského v Bratislave	1536 biológia
5.	Mgr. Jozefína Theissová	Univerzita Komenského v Bratislave	1536 biológia
Interní doktorandi hrazení z iných zdrojov			
1.	MSc. Sanjay Ramnarayan Yadav	Univerzita Komenského v Bratislave	1536 biológia
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	Mgr. Vanda Klöcklerová, PhD.	13.4.2023	1.9.2023	100
2.	Mgr. Matej Medla, PhD.	23.8.2023	1.9.2023	100
3.	Mgr. Hemen Sendi, PhD.	24.8.2023	1.9.2023	100
4.	Mgr. Alžbeta Šujanová, PhD.	3.3.2023	1.9.2023	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
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Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Sieť pre výskum malárie u divožijúcich živočíchov (*Wildlife malaria network*)

Zodpovedný riešiteľ:	Radovan Václav
Trvanie projektu:	1.9.2023 / 30.9.2027
Evidenčné číslo projektu:	CA22108
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Lincoln, UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-
	Podpora medzinárodnej spolupráce z národných zdrojov: 833 €

Dosiahnuté výsledky:

SUJANOVÁ, Alžbeta - ČUŽIOVÁ, Z. - VÁCLAV, Radovan**. The Infection Rate of Bird-Feeding Ixodes ricinus Ticks with Borrelia garinii and B. valaisiana Varies with Host Haemosporidian Infection Status. In Microorganisms, 2023, vol. 11, iss. 1, p. 60, 18 pp. (2022: 4.5 - IF, Q2 - JCR, 0.909 - SJR, Q2 - SJR). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms11010060> Typ: ADMA

Programy: UNESCO

2.) 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:	-

Dosiahnuté výsledky:

Programy: LIFE

3.) Zavedenie overených postupov ochrany motýľov v strednej a východnej Európe (*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: EÚ: 20150 €

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

1.) Pondy v mestskom prostredí - biodiverzita, nepôvodná biota a ekologická kvalita

Zodpovedný riešiteľ: Tomáš Čejka
Zodpovedný riešiteľ v organizácii SAV: Ladislav Hamerlík
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0044/22
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 3200 €

Dosiahnuté výsledky:

2.) Reprodukčné stratégie vo vzťahu k akustickým parametrom a migračným stratégiám: štúdie na trsteniaričkovi 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: SAV: 5573 €

Dosiahnuté výsledky:

Hoi H., Darolová A., Krištofik J. Slow song syllable rates provoke stronger male territorial

responses in Eurasian Reed Warblers (*Acrocephalus scirpaceus*) (2023) *Journal of Ornithology*, 164 (1), pp. 193 - 202, DOI: 10.1007/s10336-022-02021-z

3.) Stanovenie funkcií spevu a perových ornamentov u lelka lesného (*Caprimulgus europaeus*) prostredníctvom časovania vokálnych aktivít a pomocou behaviorálneho experimentu
(*Evaluation of the territorial function of vocal signal and plumage ornament in the Common Nightjar (*Caprimulgus europaeus*) by the timing of vocal activities and using behavioral experiment*)

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 1/0134/23
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1687 €

Dosiahnuté výsledky:

4.) Význam jašteríc, ježov a ixodových kliešťov v ekológii nebezpečných, vektormi prenášaných bakteriálnych a protozoárných patogénov v urbánných a suburbánných 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: SAV: 3975 €

Dosiahnuté výsledky:

5.) 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: SAV: 9198 €

Dosiahnuté výsledky:

6.) 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: SAV: 2422 €

Dosiahnuté výsledky:

7.) Úloha bioindikátorov v identifikácii antropogénne vyvolaných zmien vodno-vzdušného režimu v pôdach s rôznym spôsobom využití

Zodpovedný riešiteľ: Barbara Mangová
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 1/0315/23
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta Univerzity Komenského
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 1835 €

Dosiahnuté výsledky:

8.) 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: SAV: 4831 €

Dosiahnuté výsledky:

9.) 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: SAV: 5326 €

Dosiahnuté výsledky:

10.) Molekulárna analýza, bionómia a ekológia vybraných skupín denných motýľov a hrubopásych blanokrídlovcov. (*Molecular analysis, bionomy and ecology of specific groups of butterflies and sawflies.*)

Zodpovedný riešiteľ: Ladislav Roller
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0070/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 8383 €

Dosiahnuté výsledky:

Roller, L., & Kočišek, J. (2023). ? A new species of Mesoneura (Hymenoptera, Tenthredinidae) associated with a xerothermic oak forest in the Western Carpathians, Slovakia. Journal of Hymenoptera Research, 95, 261-274.

11.) 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 Taragel'ová
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: SAV: 7637 €

Dosiahnuté výsledky:

12.) Pochopenie komplexnej odpovede biodiverzity na lesný manažment: integrácia multi-taxonomického prístupu v hodnotení ekosystémových funkcií - DECISION

Zodpovedný riešiteľ: Jozef Šibík
Zodpovedný riešiteľ v organizácii SAV: Marek Semelbauer
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 2/0097/22
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biológie rastlín a biodiverzity SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 2223 €

Dosiahnuté výsledky:

13.) 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: SAV: 1080 €

Dosiahnuté výsledky:

14.) 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: SAV: 5967 €

Dosiahnuté výsledky:

15.) 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: SAV: 7724 €

Dosiahnuté výsledky:

16.) Šváby zo svetových jantárov III (*Cockroaches from amber III*)

Zodpovedný riešiteľ: Peter Vršanský
Zodpovedný riešiteľ v organizácii SAV: Peter Vršanský
Trvanie projektu: 1.1.2022 / 31.12.2025
Evidenčné číslo projektu: 0133/22
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav vied o Zemi SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 2780 €

Dosiahnuté výsledky:

17.) Úloha receptorov pre neuropeptidy pri regulácii vnútorných orgánov kliešťov

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0037/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 16739 €

Dosiahnuté výsledky:

Programy: APVV

18.) Získanie pravdivých informácií o kliešťoch (*Getting right info on ticks*)

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.7.2023 / 30.6.2027
Evidenčné číslo projektu: APVV-22-0372
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: SAV: 28779 €

Dosiahnuté výsledky:

19.) 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: 52199 €

Dosiahnuté výsledky:

20.) 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: 54309 €

Dosiahnuté výsledky:

Medla, M., Daubnerová, I., Koči, J., Roller, L., Slovák, M., & Žitňan, D. (2023). Identification and expression of short neuropeptide F and its receptors in the tick *Ixodes ricinus*. *Journal of Insect Physiology*, 147, 104524.

Klößlerová, V., Gáliková, Z., Roller, L., & Žitňan, D. (2023). Differential expression of ITP and

ITPL indicate multiple functions in the silkworm *Bombyx mori*. Cell and Tissue Research, 1-17.
Bartíková, P., Štibrániová, I., & Kazimírová, M. (2023). Discovery of the Role of Tick Salivary Glands in Enhancement of Virus Transmission—Beginning of an Exciting Story. Pathogens, 12(2), 334.

21.) 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: 10525 €

Dosiahnuté výsledky:

22.) 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: 29483 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Bratislavský kraj

23.) 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: 29880 €

Dosiahnuté výsledky:

Programy: Iné projekty

24.) Zážitkové laboratórium (Grant z rezervy predsedu vlády)

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	1.11.2022 / 31.3.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Rezerva predsedu vlády: 9100 €

Dosiahnuté výsledky:

25.) Veľkoplošná projekcia živých objektov a videí na vedecko-popularizačných podujatiach pre atraktívnejšiu prezentáciu laboratória hydrobiológie Ústavu zoológie SAV

Zodpovedný riešiteľ:	Igor Kokavec
Trvanie projektu:	13.4.2023 / 31.12.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Predsedníctvo SAV: 500 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ:	Olha Zhovnerchuk
Trvanie projektu:	1.9.2022 / 29.2.2024
Evidenčné číslo projektu:	09I03-03-V01-00022
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SAV: 39600 €

Dosiahnuté výsledky:

Programy: SASPRO

27.) 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: EÚ: 16440 €
Úrad SAV + ÚZ SAV : 20412 €

Dosiahnuté výsledky:

Programy: MoRePro

28.) 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 €

Dosiahnuté výsledky:

Programy: Ministerstvo školstva, vedy, výskumu a športu

29.) BARS2 (BARS2)

Zodpovedný riešiteľ: Peter Vršanský
Trvanie projektu: 1.1.2022 / 31.12.2023
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Ministerstvo vedy, výskumu a športu SR: 35000 €

Dosiahnuté výsledky:

30.) BARS3 (BARS3)

Zodpovedný riešiteľ: Peter Vršanský
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu:
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: Ministerstvo vedy, výskumu a športu: 15000 €

Dosiahnuté výsledky:

31.) BARS4 (BARS4)

Zodpovedný riešiteľ: Peter Vršanský
Trvanie projektu: 1.1.2023 / 31.12.2024
Evidenčné číslo projektu:
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV, v. v. i.
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: Ministerstvo vedy, výskumu a športu: 15000 €

Dosiahnuté výsledky:

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ADEYANJU, Temidayo Esther - ALARAPE, Abideen Abiodun - MUSILA, Simon - ADEYANJU, Adeniyi Taiye - OMOTORIOGUN, Taiwo Crossby - MEDINA-JEREZ, William - YELLOW, Ukeme Essien - PROKOP, Pavol**. Human–Bat Relationships in Southwestern Nigerian Communities. In Anthrozoos, 2023, vol.36, no. 3, p. 407–425. (2022: 1.6 - IF, Q2 - JCR, 0.486 - SJR, Q1 - SJR). ISSN 0892-7936. Dostupné na: <https://doi.org/10.1080/08927936.2023.2166715>
- ADCA02 ARGILÉS-HERRERO, Rafael - SALVADOR-HERRANZ, Gustavo - PARKER, Andrew G. - ZACARÉS, Mario - FALL, Assane G. - GAYE, Adji M. - NAWAZ, Arooj - TAKÁČ, Peter - VREYSEN, Marc J.B. - DE BEER, Chantel J**. Near-infrared imaging for automated tsetse pupae sex sorting in support of the sterile insect technique. In Parasite : Journal de la Societe Francaise de Parasitologie, 2023, vol. 30, no., art.no. 17, 12 pp. (2022: 2.9 - IF, Q2 - JCR, 0.803 - SJR, Q1 - SJR). ISSN 1252-607X. Dostupné na: <https://doi.org/10.1051/parasite/2023019>
- ADCA03 ATTARDO, Geoffrey M. - BENOIT, Joshua B. - MICHALKOVÁ, Veronika - KONDRAGUNTA, Alekhyia - BAUMANN, Aaron A. - WEISS, Brian L. - MALACRIDA, Anna R. - SCOLARI, Francesca - AKSOY, Serap. Lipid metabolism dysfunction following symbiont elimination is linked to altered Kennedy pathway homeostasis. In iScience, 2023, vol. 26, iss.7, art. no. 107108. (2022: 5.8 - IF, Q1 - JCR, 1.624 - SJR, Q1 - SJR). ISSN 2589-0042. Dostupné na: <https://doi.org/10.1016/j.isci.2023.107108>
- ADCA04 BOROVSÁ, Ivana - VOŘECHOVSKÝ, Igor - KRÁLOVIČOVÁ, Jana**. Alu RNA fold links splicing with signal recognition particle proteins. In Nucleic Acids Research, 2023, vol. 51, no. 15, p. 8199-8216. (2022: 14.9 - IF, Q1 - JCR, 8.234 - SJR, Q1 - SJR). ISSN 0305-1048. Dostupné na: <https://doi.org/10.1093/nar/gkad500> (Vega č. 2/0016/22 : Štrukturálne usporiadanie pre-mRNA nevyhnutné pre exonizáciu Alu. APVV-18-0096 : Kotranskripčné formovanie pre-mRNA štruktúry, model štrukturálnych motívov nevyhnutných pre definíciu exónu)
- ADCA05 CROY, Ilona - HELLER, C. - AKELLO, Grace - PROKOP, Pavol - KOCJAN, Gaja - ZUPANČIČ, Maja - SOROKOWSKA, Agnieszka. COVID-19 and Social Distancing: A Cross-Cultural Study of Interpersonal Distance Preferences and Touch Behaviors Before and During the Pandemic. In Cross-Cultural Research, 2023, vol. 57, iss. 1, p. 41-69. (2022: 2.5 - IF, Q2 - JCR, 0.64 - SJR, Q1 - SJR). ISSN 1069-3971. Dostupné na: <https://doi.org/10.1177/10693971231174935>
- ADCA06 DVOŘÁK, Martin - DITTMANN, Lorenz - PEDRINI-MARTHA, Veronika - HAMERLÍK, Ladislav - BITUŠÍK, Peter - STUHLÍK, E. - VONDRÁK, Daniel - FÜREDER, Leopold - LACKNER, R.**. Energy status of chironomid larvae (Diptera: Chironomidae) from high alpine rivers (Tyrol, Austria). In Comparative biochemistry and physiology - Part A Molecular & integrative physiology, 2023, vol. Part A 284, art. no. 111477, 12 pp. (2022: 2.3 - IF, Q1 - JCR, 0.605 - SJR, Q1 - SJR). ISSN 1095-6433. Dostupné na: <https://doi.org/10.1016/j.cbpa.2023.111477>
- ADCA07 GÁLIKOVÁ, Martina** - KLEPSATEL, Peter*. Endocrine control of glycogen and triacylglycerol breakdown in the fly model. In Seminars in Cell and Developmental Biology, 2023, vol. 138, p. 104-116. (2022: 7.3 - IF, Q1 - JCR, 2.197 - SJR, Q1 - SJR). ISSN 1084-9521. Dostupné na: <https://doi.org/10.1016/j.semcdb.2022.03.034>

- ADCA08 HOI, Herbert - DAROLOVÁ, Alžbeta** - KRIŠTOFÍK, Ján*. Slow song syllable rates provoke stronger male territorial responses in Eurasian Reed Warblers (*Acrocephalus scirpaceus*). In *Journal of ornithology*, 2023, vol. 164, pp. 193–202. (2022: 1.3 - IF, Q2 - JCR). ISSN 2193-7206. Dostupné na: <https://doi.org/10.1007/s10336-022-02021-z>
- ADCA09 JEŽOVÁ, Zuzana - PROKOP, Pavol** - ZVARÍKOVÁ, Martina - ZVARÍK, Milan. Unraveling the Significance of Draglines: Female Sexual Signalization in the Nursery-Web Spider, *Pisaura mirabilis*. In *Insects*, 2023, vol. 14, iss. 9, art. no. 765, 15 pp. (2022: 3 - IF, Q1 - JCR, 0.787 - SJR, Q1 - SJR). ISSN 2075-4450. Dostupné na: <https://doi.org/10.3390/insects14090765>
- ADCA10 KALÚZ, Stanislav** - ERMILOV, Sergey G. Two new species of *Cunaxa* (Acari, Prostigmata, Cunaxidae) from South-East Asia with a world key to the genus. In *Zootaxa*, 2023, vol. 5239, no. 4, p. 521-536. (2022: 0.9 - IF, Q3 - JCR, 0.526 - SJR, Q2 - SJR). ISSN 1175-5334. Dostupné na: <https://doi.org/10.11646/zootaxa.5239.4.4>
- ADCA11 KLEPSATEL, Peter** - KNOBLOCHOVÁ, Diana - DHARANIKOTA, Malleswara - VIDLIČKA, Ľubomír - GÁLIKOVÁ, Martina. Developmental plasticity of thermal performance curve for reproduction in *Drosophila melanogaster*. In *Evolution*, 2023, vol. 77, no. 12, p. 2606-2618. (2022: 3.3 - IF, Q2 - JCR, 1.503 - SJR, Q1 - SJR). ISSN 0014-3820. Dostupné na: <https://doi.org/10.1093/evolut/qpad177>
- ADCA12 KLÖCKLEROVÁ, Vanda - GÁLIKOVÁ, Zuzana - ROLLER, Ladislav - ŽITŇAN, Dušan**. Differential expression of ITP and ITPL indicate multiple functions in the silkworm *Bombyx mori*. In *Cell and Tissue Research*, 2023, vol. 392, no. 3, p. 715-731. (2022: 3.6 - IF, Q3 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0302-766X. Dostupné na: <https://doi.org/10.1007/s00441-023-03752-y>
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ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

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- ADEB03 ZHOVNERCHUK, Olha** - DUDYNSKA, Andreia. An annotated checklist of Tetranychidae (Acari: Trombidiformes) of the Transcarpathian region (Ukraine). In *GEO&BIO (Proceedings of the National Museum of Natural History)*, 2022, vol. 23, p. 95-106. Dostupné na: <https://doi.org/10.15407/gb2309>

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- ADFB02 patogénov v urbanizujúcom sa svete - epidemiológia a genetická diverzita)
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ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

- ADMA01 BARTÍKOVÁ, Pavlína - ŠTIBRÁNIOVÁ, Iveta - KAZIMÍROVÁ, Mária**. Discovery of the Role of Tick Salivary Glands in Enhancement of Virus Transmission-Beginning of an Exciting Story. In Pathogens, 2023, vol. 12, no. 2, art. no. 334. (2022: 3.7 - IF, Q2 - JCR, 0.807 - SJR, Q2 - SJR). ISSN 2076-0817. Dostupné na: <https://doi.org/10.3390/pathogens12020334> (VEGA 2/0108/22 : Vrodené antivírusové obranné reakcie vybraných buniek ľudskej kože voči vírusu kliešťovej encefalitídy a ich modulácia bioaktívnymi látkami v slinách kliešťov)
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- ADMA03 KAZIMÍROVÁ, Mária** - MAHRÍKOVÁ, Lenka - HAMŠÍKOVÁ, Zuzana - STANKO, Michal** - GOLOVCHENKO, M. - RUDENKO, Natalia. Spatial and Temporal Variability in Prevalence Rates of Members of the *Borrelia burgdorferi* Species Complex in *Ixodes ricinus* Ticks in Urban, Agricultural and Sylvatic Habitats in Slovakia. In Microorganisms, 2023, vol. 11, no. 7, art. no. 1666. (2022: 4.5 - IF, Q2 - JCR, 0.909 - SJR, Q2 - SJR). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms11071666> (FP7-261504 EDENext : Biology and Control of Vector-borne Infections in Europe)
- ADMA04 SEMELBAUER, Marek - SAMAY, Ján** - ZAVŘEL, Jan. Diptera species recorded for the first time in Slovakia found along the Danube floodplain. In Check list : the journal of biodiversity data, 2023, vol. 19, no. 6, p. 791–800. (2022: 0.4 - IF, 0.252 - SJR, Q3 - SJR). ISSN 1809-127X. Dostupné na: <https://doi.org/10.15560/19.6.791> (VEGA 2/0074/21 : Invázy švábik *Planuncus tingitanus* (Blattaria) na Slovensku - šírenie, ekológia a etológia.)
- ADMA05 ŠUJANOVÁ, Alžbeta - ČUŽIOVÁ, Z. - VÁCLAV, Radovan**. The Infection Rate of Bird-Feeding *Ixodes ricinus* Ticks with *Borrelia garinii* and *B. valaisiana* Varies with Host Haemosporidian Infection Status. In Microorganisms, 2023, vol. 11, iss. 1, p. 60, 18 pp. (2022: 4.5 - IF, Q2 - JCR, 0.909 - SJR, Q2 - SJR). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms11010060>
- ADMA06 VRÁBLOVÁ, Zuzana** - KOKAVEC, Igor - NAVARA, Tomáš - MLÁKA, Miroslav - HAMERLÍK, Ladislav. First record of the genus *Anatopynia* Johannsen, 1905 (Diptera, Chironomidae) from Slovakia, in a semi-permanent oxbow lake. In Check list : the journal of biodiversity data, 2023, vol. 19, no. 2, p. 177–181. (2022: 0.4 - IF, 0.252 - SJR, Q3 - SJR). ISSN 1809-127X. Dostupné na:

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

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FP7-261504 EDENext : Biology and Control of Vector-borne Infections in Europe.
Vega č. 2/0055/11 : Genetická variabilita *Anaplasma phagocytophilum* a jej význam
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ADCA24

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ADCA36

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

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- AEC01 KOVÁČ, Ľubomír - MOCK, A. - LUPTÁČIK, Peter - KOŠEL, V. - FENĎA, Peter - SVATONĚ, Jan - MAŠÁN, Peter. Terrestrial arthropods of the Domica Cave system and the Ardovska Cave (Slovak Karst) – principal microhabitats and diversity. In Contributions to Soil Zoology in Central Europe I : Proceedings of the 7th Central European Workshop on Soil Zoology : Held in České Budějovice, Czech Republic, April 14-16, 2003. Karel Tajovský, Jiří Schlaghamerský, Václav Pižl (eds). - Institute of Soil Biology, Academy of Sciences of the Czech Republic, 2005, p. __. ISBN 808652504X, 9788086525044. Dostupné na internete: <http://cavebiology.net/publications/18.pdf>

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AECA Vedecké práce v zahraničných recenzovaných zborníkoch a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo VŠ učebniciach

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- AECA02 TAKÁČ, Peter - KOZÁNEK, Milan - MURILLA, Grace A. - MUKIRIA, Phoebe - WANYONYI KINYOSI, Bernard - CHEMULITI, Judith K. - WANJERIE, Kimani J. - KIBIWOTT, Christopher K. - STADLER, Frank. Establishment of a Medical Maggot Rearing Facility and Maggot Therapy Programme for Human and

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***AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch, monografiách**

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- AEDA01 VÁCLAV, Radovan. Owl breeding survey in the lower part of the Ipeľ River basin (Slovakia), 2010–2016. In *Tichodroma : ornitologický časopis*, 2016, roč. 28, s. 48-61. (2016 - Zoological Record). ISSN 1337-026X. (ITMS 26240120014 : Centrum excelentnosti pre ochranu a využívanie krajiny a biodiverzity)

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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*

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

- AEMA01 MEDLA, Matej - DAUBNEROVÁ, Ivana - KOČI, Juraj - ROLLER, Ladislav - ŽITŇAN, Dušan. Characterization of short neuropeptide F (sNPF) and its specific receptors in the hard tick Ixodes ricinus. In FEBS Open Bio, 2021, vol. 11, no. Suppl 1, p. 212-213 / meeting abstract: P-03.2-02. (2020: 2.693 - IF, Q3 - JCR, 0.718 - SJR, Q2 - SJR). ISSN 2211-5463.

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BBB Kapitoly v odborných knižných publikáciách vydané v domácich vydavateľstvách

- BBB01 VIDLIČKA, Ľubomír. Článkonožce Arthropods. In AMBRÓZ, Leonard et al. Atlas druhov európskeho významu pre územia NATURA 2000 na Slovensku. 1. vyd. - Liptovský Mikuláš ; Bratislava : Slovenské múzeum ochrany prírody a jaskyniarstva : Slovart, 2011, 2011, p. 138 - 233. ISBN 978-80-556-0220-2.

Citácie:

1. [1.2] JURENA, Daniel. A critical review of the distribution of the endangered European earth-borer beetle *Bolbelasmus unicornis* (Coleoptera, Geotrupidae), with new records from 13 countries and observations on its bionomy. In ZooKeys, 2022-01-01, 2022, 1105, pp. 1-125. ISSN 13132989. Available on: <https://doi.org/10.3897/zookeys.1105.81474>., Registrované v: SCOPUS

BEF Odborné práce v domácich zborníkoch (konferenčných aj nekonferenčných, recenzovaných a nerecenzovaných)

- BEF01 VRŠANSKÝ, Peter** - HINKELMAN, Jan - KOUBOVÁ, Ivana - SENDI, Hemen - KÚDELOVÁ, Tatiana - KÚDELA, Matúš - BARCLAY, Maxwell. A single common ancestor for praying mantids, termites, cave roaches and umenocoleoids. In Amba projekty. - Bratislava : AMBA, 2021, vol. 11, no. 1, p. 1-16. ISSN 2644-5840.

Citácie:

1. [1.1] MAKSOUD, Sibelle - GRANIER, Bruno R. C. - AZAR, Dany. Palaeoentomological (fossil insects) outcrops in Lebanon. In CARNETS DE GEOLOGIE, 2022, vol. 22, no. 16, pp. 699-743. ISSN 1634-0744. Available on: <https://doi.org/10.2110/carnets.2022.2216>., Registrované v: WOS

2. [1.1] ROSS, Andrew J. Supplement to the Burmese (Myanmar) amber checklist and bibliography, 2021. In PALAEOENTOMOLOGY, 2022, vol. 5, no. 1, pp. 27-45. ISSN 2624-2826. Available on: <https://doi.org/10.11646/palaeoentomology.5.1.4>., Registrované v: WOS

3. [2.1] KACEROVA, Julia - AZAR, Dany. Mesozoic cockroaches (Insecta: Mesoblattinidae, Blattulidae) from shale and dysodile of Lebanon. In BIOLOGIA, 2022, vol., no., pp. ISSN 0006-3088. Available on: <https://doi.org/10.1007/s11756-022-01209-1>., Registrované v: WOS

4. [2.1] KOVACOVA, Zuzana. Two new cockroaches (Insecta: Blattaria: Vitisma, Nuurcala) from the Lower Cretaceous sediments of Shar-Tologoy in Mongolia. In BIOLOGIA, 2022, vol., no., pp. ISSN 0006-3088. Available on: <https://doi.org/10.1007/s11756-022-01145-0>., Registrované v: WOS

5. [2.1] SZABO, Marton - SZABO, Peter - KOBOR, Peter - OSI, Attila. *Alienopterix santonicus* sp. n., a metallic cockroach from the Late Cretaceous ajkaite amber (Bakony Mts, western Hungary) documents Alienopteridae within the Mesozoic Laurasia. In BIOLOGIA, 2022, vol., no., pp. ISSN 0006-3088. Available on: <https://doi.org/10.1007/s11756-022-01265-7>., Registrované v: WOS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Martina Gáliková, PhD.

Názov semestr. predmetu: Genetika živočíchov

Počet hodín za semester: 6

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

Mgr. Martina Gáliková, PhD.

Názov semestr. predmetu: Medicínska entomológia

Počet hodín za semester: 1

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra ekológie

Mgr. Martina Gáliková, PhD.

Názov semestr. predmetu: Vybrané kapitoly z molekulárnej biológie

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Akademické vademecum I

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Akademické vademecum II

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Ekológia obnovy

Počet hodín za semester: 1

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Ekológia vnútrozemských vôd

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Freshwater Biology

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Metódy vedeckej práce

Počet hodín za semester: 1

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Príroda v štvrtohorách

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Scientific Communication

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Všeobecná ekológia

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

RNDr. Kamila Koči, PhD.

Názov semestr. predmetu: Bunkové kultúry a in vivo modely

Počet hodín za semester: 12

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

Mgr. Radovan Václav, PhD.

Názov semestr. predmetu: Evolučná ekológia

Počet hodín za semester: 24

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra ekológie

Semestrálne cvičenia:

RNDr. Kamila Koči, PhD.

Názov semestr. predmetu: Mikrobiológia a virológia

Počet hodín za semester: 16

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

RNDr. Kamila Koči, PhD.

Názov semestr. predmetu: Mikrobiológia a virológia

Počet hodín za semester: 15

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

Semináre:

RNDr. Kamila Koči, PhD.

Názov semestr. predmetu: Seminár z mikrobiológie a virológie 2

Počet hodín za semester: 24

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Krajina a Biodiverzita

Počet hodín za semester: 1

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra geochemie

Mgr. Alžbeta Šujanová, PhD.

Názov semestr. predmetu: Seminár z parazitologie

Počet hodín za semester: 1

Názov katedry a vysokej školy: Masarykova univerzita Brno, ČR, Ústav botaniky a zoologie, Parazitologie

Terénne cvičenia:

prof. Ing. Ladislav Hamerlík, PhD.

Názov semestr. predmetu: Ekológia vnútrozemských vôd – terénne cvičenia

Počet hodín za semester: 13

Názov katedry a vysokej školy: Univerzita Mateja Bela v Banskej Bystrici, Katedra biológie, ekológie a životného prostredia

Individuálne prednášky:

RNDr. Peter Takáč, CSc.

Názov semestr. predmetu: Metódy biologického boja / Metóda sterilného hmyzu na eradikáciu bodaviek tsetse-ekologická alternatíva insekticídov

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra ekológie

Mgr. Olha Zhovnerchuk, PhD.

Názov semestr. predmetu: Akarologický výskum vo vedeckých inštitúciách Akadémie vied Ukrajiny a Slovenskej akadémie vied

Počet hodín za semester: 1

Názov katedry a vysokej školy: Zhytomyr State University, Ukraine, Prírodovedecká fakulta

Príloha A-5**Medzinárodná mobilita organizácie****(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:**

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Japonsko					Peter Vršanský	34
Nemecko					Vanda Klöcklerová	18
Počet vyslaní spolu					2	52

(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	XXII IMYLS	Vanda Klöcklerová	3
Grécko	ECE 2023	Pavol Prokop	5
Rakúsko	ITPD 2023	Yuliya Didyk	4
		Michal Chvostáč	4
		Mária Kazimírová	2
		Barbara Mangová	4
		Slávka Purgatová	4
		Veronika Rusňáková Taragel'ová	4
		Diana Selyemová	4
Ukrajina	ISP MAP	Olha Zhovnerchuk	2
Ukrajina (online)	X Meeting UES	Yuliya Didyk	5
		Olha Zhovnerchuk	5
USA	IIHW 2023	Diana Knoblochová	7
		Matej Medla	7
Spolu	6	14	60

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

Skratky použité v tabuľke C:

ECE 2023 - XII European Congress of Entomology 2023

IIHW 2023 - The 6th International Insect Hormone Workshop, Riverside, CA

ISP MAP - Proceedings of the International Scientific and Practical Conference Innovations in Modern Agricultural Production

ITPD 2023 - International Symposium on Tick-Borne Pathogens and Disease ITPD 2023

X Meeting UES - X Meeting of Ukrainian Entomological Society

XXII IMYLS - XXIIInd Interdisciplinary meeting of young life scientists

Príloha A-6**Vedecko-popularizačná činnosť pracovníkov organizácie**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MVDr. Markéta Derdáková, PhD.	-	TL	Desivejšie než medvede: Kde sa u nás nachádzajú tie nebezpečné kliešte a ako sa im brániť?	časopis Téma	22.7.2023
MVDr. Markéta Derdáková, PhD.	pracovníci oddelenia medicínskej zoológie, Ústavu zoológie SAV	PB	Noc výskumníkov	Stará tržnica, Bratislava	29.9.2023
MVDr. Markéta Derdáková, PhD.	Veronika Rusňáková Taragel'ová	PB	Večer zvedavých	Kafé Lampy	22.11.2023
MVDr. Markéta Derdáková, PhD.	Veronika Rusňáková Taragel'ová, Michal Chvostáč	DO	Moja diagnóza - Nakazený kliešť môže číhať hocikde	RTVS 2	30.10.2023
MVDr. Yuliya Didyk, PhD.	Dr. Žitňan, Dr. Vidlička, Dr. Gáliková, Dr. Šujanová	PB	Stretnutie s deťmi z ukrajinskej školy v Bratislave	Ustav zoologie	25.8.2023
MVDr. Yuliya Didyk, PhD.	Zelinkova Diana, Veronika Taragel'ová, Barbara Mangova, Michal Chvostáč	iné	70 rokov Slovenskej akadémie vied	Bratislava	23.6.2023
MVDr. Yuliya Didyk, PhD.	Zelinkova Diana, Veronika Taragel'ová, Marketa Derdakova, Barbara Mangova, Michal Chvostáč, Slávka Purgatová, Alžbeta Šujanová	iné	Európska noc výskumníkov 2023	Bratislava	29.9.2023
Mgr. Martina Gáliková, PhD.		RO	Nočná pyramída	https://www.rtvs.sk/radio/archiv/11436/2177293	6.11.2023
Mgr. Martina Gáliková, PhD.		TL	rozhovor pre časopis Akadémia	https://akademia.sav.sk/uploads/news_sas/06150845spravysav_202303.pdf	9.6.2023

Mgr. Martina Gáliková, PhD.		PB	Zážitkové laboratórium - exkurzia pre žiačky a žiakov ZŠ	laboratórne exkurzie na UZ SAV	24.8.2023
Mgr. Martina Gáliková, PhD.		PB	Zážitkové laboratórium - exkurzie pre študentky a študentov VŠ	laboratórne exkurzie na UZ SAV	2023
RNDr. Mária Kazimírová, CSc.		TL	Kliešte na Slovensku útočia: Môže vás ohroziť uhryznutie aj bryndza a ako je to s vakcínami?	https://www1.pluska.sk/rady-a-tipy/klieste-slovensku-utocia-mozete-ohrozit-uhryznutie-aj-bryndza-ako-je-to-vakcinami	2.6.2023
RNDr. Mária Kazimírová, CSc.		TV	Nebezpečné kliešte	https://www.markiza.sk/relacie/televizne-noviny/bonus/63352-nebezpecne-klieste	19.5.2023
RNDr. Mária Kazimírová, CSc.		TL	Vedia byť nebezpečné i osožné. Vo svete existuje takmer tisícka druhov kliešťov	https://myzahorie.sme.sk/c/23173251/vedia-byt-nebezpecne-i-osozne-vo-svete-existuje-takmer-tisicka-druhov-kliestov.html	26.5.2023
Mgr. Igor Kokavec, PhD.	Tomáš Navara	iné	Víkend s SAV	Námestie Eurovea, Bratislava	24.6.2023
Mgr. Barbara Mangová, PhD.	Semelbauer Marek	PB	Prednášky pre deti v spolupráci so Slobodou zvierat	Ústav zoológie SAV	2023
Mgr. Veronika Michalková, Ph.D.		TV	Hlavné spravy	RTVS	30.5.2023
Mgr. Veronika Michalková, Ph.D.		TV	Hlavné spravy	RTVS	18.6.2023
Mgr. Veronika Michalková, Ph.D.		TV	https://joj24.noviny.sk/spravy-joj-24/794607-spektrum-24-o-slovenskej-metode-boja-proti-spavej-chorobe	JOJ	22.5.2023
Mgr. Veronika Michalková, Ph.D.		TV	Ranne spravy	RTVS	30.5.2023
Mgr. Veronika Michalková, Ph.D.	1	PB	Diskusia: Je reálne nahradiť chemický postrek komárov?	https://www.facebook.com/events/1229784337738364/	21.6.2023
RNDr. Tomáš Navara, PhD.		iné	Víkend s SAV	Námestie Eurovea Bratislava	24.6.2023
prof. PaedDr. Pavol Prokop, DrSc.		IN	Nevera a jej význam pre vývoj života	https://www.aktuality.sk/clanok/VGjuJZl/nevera-a-jej-vyznam-pre-vyvoj-zivota/	26.3.2023
prof. PaedDr. Pavol Prokop, DrSc.		IN	Prvé záznamy o bozkávaní majú takmer 5-tisíc rokov. Sú bozky na pery univerzálny ľudský	https://dennikn.sk/3392397/prve-zaznamy-o-bozkavani-maju-takmer-5-tisic-rokov-su-boz	24.5.2023

			znak?	ky-na-pery-univerzaln y-ludsky-znak/?ref=lis t	
prof. PaedDr. Pavol Prokop, DrSc.		IN	Scientists don't know for sure why we have pubic hair — but they have some compelling theories	https://www.salon.com/2023/01/21/why-do-we-have-pubic-hair-explainer/	21.1.2023
prof. PaedDr. Pavol Prokop, DrSc.		IN	Some animals appear charismatic to us without knowing why	https://spectator.sme.sk/c/23125510/some-animals-appear-charismatic-to-us-without-knowing-why.html	4.2.2023
prof. PaedDr. Pavol Prokop, DrSc.		IN	Vzdajú sa sexu a brat z toho profituje. Môže mať celibát evolučný význam?	https://tech.sme.sk/c/23109968/moze-mat-zd-rzanlivost-od-sexu-evolu-cny-vyznam-mnich-pomoze-bratovi.html	27.1.2023
Mgr. Veronika Rusňáková Taragel'ová, PhD.		RO	Nočná pyramída	Slovenský rozhlas, Rádio Slovensko	10.9.2023
Mgr. Veronika Rusňáková Taragel'ová, PhD.	Markéta Derdáková	PB	Večer zvedavých	Kafé lampy, Bratislava Petržalka	22.11.2023
Mgr. Ján Samay		PB	Halloweenska zvedáreň	Piešťany	31.10.2023
Mgr. Ján Samay	Patrik Steller	TV	Reportáž o pavúkoch	TV Markíza	19.10.2023
Mgr. Marek Semelbauer, PhD.		PB	Obnovte s nami plochu plochu s lúčnymi kvetmi	https://www.lamac.sk/novinky/obnovte-s-nami-plochu-plochu-s-lucnymi-kvetmi-24-3	24.3.2023
Mgr. Marek Semelbauer, PhD.		PB	Prednáška na International Wilderness Camp - Veľký Lél	https://climategame.eu/news-article/back-to-the-wilderness	25.8.2023
Mgr. Marek Semelbauer, PhD.		PB	rednáška s diskusiou na tému: Ako a prečo zachraňovať lietajúcu háved'	Ekocentrum Stupava	11.11.2023
Mgr. Marek Semelbauer, PhD.	Anton Adamčík	TV	Poznáte včely samotárk? Mnohé vôbec nevyzerajú ako včely	https://www.noviny.sk/slovensko/804765-poznate-vcely-samotarky-mnohe-vobec-nevyzeraju-ako-vcely	18.6.2023
Mgr. Marek Semelbauer, PhD.	Kristýna Peštová	IN	Nie je mucha ako mucha. V Malackách sa objavil doteraz nevidený vzácny druh Čítajte viac: https://myzahorie.sme.sk/c/23233957/nie-je-mucha-ako-mucha-v-malackach-sa-objavil-doteraz-nevideny-vzacny-druh	https://myzahorie.sme.sk/	20.10.2023
Mgr. Marek	Petra Ježeková	IN	Je dobré nechať na zimú starú trávu a	https://ciernalabut.den	14.11.2023

Semelbauer, PhD.			listie v záhrade, hovorí entomológ Semelbauer	nikn.sk/	
Mgr. Marek Semelbauer, PhD.	Soňa Cipínová	TV	Na Záhorí lieta vzácna mucha. Vraj je to prvý takýto objav na Slovensku Zdroj: https://tvnoviny.sk/do-mace/clanok/864728-na-zahori-lieta-vzacna-mucha-vraj-je-to-prvy-takyto-objav-na-slovensku?campaigns	https://tvnoviny.sk/do-mace/clanok/864728-na-zahori-lieta-vzacna-mucha-vraj-je-to-prvy-takyto-objav-na-slovensku	29.10.2023
Mgr. Alžbeta Šujanová, PhD.		IN	Popularizačné videá	FB stránka Ústavu zoológie - https://www.facebook.com/profile.php?id=100093801335934	2023
Ing. Zbyšek Šustek, CSc.		PB	Nočná pyramída	RTVS	12.10.2023
Ing. Zbyšek Šustek, CSc.		TV	Rozhovor o kondenzácii vodných pár na tele púštnych potemníkov	TV JOJ	2023
RNDr. Peter Takáč, CSc.		TL	popularizačný článok	Hospodárske noviny	1.4.2023
doc. RNDr. Ľubomír Vidlička, CSc.	Ladislav Roller	EX	Klub prírodovedecký v Brně	ÚZ SAV Bratislava	9.5.2023
Mgr. Barbara Mangová, PhD.	Šujanová, Purgatová, Didyk, Chvostáč, Selyemová, Rusnaková-Taragel'ová, 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, účasť v komisii pre celoštátne kolo	https://www.iuventa.sk/olympiady/ucitel-organizator/biologicka-olympiada	7
Mgr. Veronika Rusňáková Taragel'ová, PhD.	Markéta Derdáková, Diana Selyemová, Barbara Mangová, Yuliya Didyk, Michal Chvostáč, Alžbeta Šujanová, Olha Zhovnerchuk, Slávka Purgatová	PB	Noc výskumníkov	Stará tržnica, nám. SNP, Bratislava	1
Mgr. Diana Selyemová, PhD.	Veronika Rusňáková Taragel'ová,	PB	Noc výskumníkov	Stará tržnica, Bratislava	0

	Markéta Derdáková, Barbara Mangová, Yulia Didyk, Michal Chvostáč, Alžbeta Šujanová, Slávka Purgatová				
Mgr. Marek Semelbauer, PhD.		TL	Pripietateľ do časopisu 50+	Časopis 50+	4
Mgr. Marek Semelbauer, PhD.	Jan Litvak	TL	Prispievateľ do časopisu Doma v záhrade "Drobná fauna"	Doma v záhrade	12
Mgr. Alžbeta Šujanová, PhD.	Veronika Rusňáková Taragel'ová, Diana Selyemová, Markéta Derdáková, Yuliya Didyk, Barbara Mangová, Michal Chvostáč	PB	Európska noc výskumníkov	Stará tržnica - Bratislava	0

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

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2023

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Medla Matej

1. miesto - Cena publika, Drobnicov Memoriál 2023

Oceňovateľ: Drobnicov Memoriál 2023

Medla Matej

2. miesto - Súťaž mladých vedeckých pracovníkov, Drobnicov memoriál 2023

Oceňovateľ: Drobnicov Memoriál 2023

Medzinárodné ocenenia

Klöcklerová Vanda

The Jitka Moravcová Prize

Oceňovateľ: Czech society for biochemistry and molecular biology; Czech chemical society; Merck Life Science and the Scientific committee

Opis: Ocenenie za najlepší poster s názvom "Novel neuropeptide in the innervation of salivary glands of the tick Ixodes ricinus" vrámci konferencie "XXIInd Interdisciplinary meeting of young life scientists" konajúcej sa 15.-18.5.2023 Milovy, Česká republika

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenennej osoby.

ČASŤ B

Ústav zoológie SAV, v. v. i.

**Výročná správa o hospodárení organizácie
za rok 2023**

19. Rámcové informácie o hospodárení organizácie

19.1. Výdavky organizácie

Tabuľka 19a Výdavky organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie (v. v. i.)		Zdroje, z ktorých sa kryli jednotlivé výdavky			
Výdavky	Spolu	kapitola SAV (111)	iné štátne a verejné zdroje	ostatné zdroje	% krytia z kapitoly SAV
1. Bežné výdavky	1815044,21	1511089,64	175295,00	128659,57	
z toho: mzdy (610)	1036035,47	914372,80	57116,76	64545,91	
vedecká výchova štipendiá (640)	61489,00	57387,00		4102,00	
poistné a príspevok do poisťovní (620)	358282,70	323710,03	15776,25	18796,42	
tovary a služby (630)	323027,04	215619,81	66191,99	41215,24	
transfery partnerom projektov (640)	36210,00		36210,00		
2. Kapitálové výdavky	77894,11	76500,00		1394,11	
z toho: obstarávanie kapitálových aktív	77894,11	76500,00		1394,11	
kapitálové transfery					

19.2. Zdroje financovania organizácie

Tabuľka 19b Zdroje financovania organizácie (skutočnosť k 31. 12. 2023 v €)

Typ organizácie (v. v. i.)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	1608570,95	76500,00	914372,80	323710,03	
z toho: VEGA	90580,00	16500,00			
MVTS výskumné projekty					
MVTS podpora	833,00				
SASPRO/MOREPRO	44664,00		20884,80	7351,38	
Vydávanie časopisov	6489,00				
Vedecká výchova (štipendiá)	57387,00				
OTAS (630)	215620,00				

2. ŠF EÚ vr. fin. zo ŠR	83581,00		49059,60	10404,26	
3. medzinárodné grantové projekty					
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)					
z toho: APVV	175295,00		57117,00	15776,00	
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	14347,42	1394,11	15486,31	8392,16	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	14347,42				

20. Ročná účtovná závierka

Ročná účtovná závierka

- a) bola predložená na prerokovanie správnej rade dňa 9. 5. 2024 a správna rada sa vyjadrila dňa 14. 5. 2024.
- b) bola predložená na schválenie dozornej rade dňa 14.5. 2024 a dozorná rada ju schválila dňa 24. 5. 2024.

Ročná účtovná závierka bola uložená do registra účtovných závierok dňa 18.6.2024.

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva



zostavená k 31.12.2023

Daňové identifikačné číslo 2020919417 IČO 00679097 SK NACE 72.19.0	Účtovná závierka <input checked="" type="checkbox"/> riadna <input type="checkbox"/> mimoriadna <input type="checkbox"/> priebežná (vyznačí sa x)	Mesiac Rok Za obdobie od 01.2023 do 12.2023 Bezprostredne predchádzajúce obdobie od 01.2022 do 12.2022
Priložené súčasti účtovnej závierky <input checked="" type="checkbox"/> Súvaha (Úč NUJ 1-01) (v eurocentoch) <input checked="" type="checkbox"/> Výkaz ziskov a strát (Úč NUJ 2-01) (v eurocentoch) <input checked="" type="checkbox"/> Poznámky (Úč NUJ 3-01) (v celých eurách alebo eurocentoch)		
Názov účtovnej jednotky Ústav zoológie SAV, v. v. i.		
Sídlo účtovnej jednotky Ulica Dúbravská cesta Číslo 9 PSČ 84506 Obec Bratislava Telefónne číslo . E-mailová adresa e.v.rablova@savba.sk		
Zostavená dňa: 14.05.2024	Schválená dňa: 24.05.2024	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:

SÚVAHA

k 31.12.2023
(v eurách zaokrúhlene na dve desatinné miesta)

Za bežné účtovné obdobie od	mesiac	rok	do	mesiac	rok
	01	2023		12	2023
Za bezprostredne predchádzajúce účtovné obdobie od	mesiac	rok	do	mesiac	rok
	12	2022		12	2022

Daňové identifikačné číslo

2020919417

Účtovná závierka

X

- riadna- mimoriadna

IČO

00679097

SID

/

Kód SK NACE

72.19.0

Názov účtovnej jednotky

Ústava zoologické SAV, v. v. i.

Sídlo účtovnej jednotky

Ulica a číslo

Dúbravská cesta 9

PSČ

84506

Názov obce

Bratislava

Smerové číslo telefónu

Číslo telefónu

Číslo faxu

E-mailová adresa

eva.vrablova@savba.sk

<div>Zostavená dňa</div> <div>Autor: Vráblová</div> <div>25.1.2024</div>	<div>Podpisový záznam osoby zodpovednej za vedenie účtovníctva:</div>	<div>Podpisový záznam osoby zodpovednej za zostavenie účtovnej závierky:</div>	<div>Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:</div>
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STRANA AKTÍV	č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
		Brutto	Korekcia	Netto	
a	b	1	2	3	4
A. Neobežný majetok spolu r.002+r.009+r.021	1	2 614 305,47	2 199 406,32	414 899,15	434 588,72
A.I. Dlhodobý nehmotný majetok r.003 až r.008	2	0,00	0,00	0,00	0,00
A.I.1. Nehm. výsledky vývojovej a obd. činn.012 -(072+091AÚ)	3	0,00	0,00	0,00	0,00
2. Softvér 013-(073+091AÚ)	4	0,00	0,00	0,00	0,00
3. Oceniteľné práva 014-(074+091AÚ)	5	0,00	0,00	0,00	0,00
4. Ost. dlhodobý nehm. maj.(018+019)-(078+079+091AÚ)	6	0,00	0,00	0,00	0,00
5. Obstaranie dlhodobého NM (041-093)	7	0,00	0,00	0,00	0,00
6. Poskytnuté preddavky na DNM (051-095AÚ)	8	0,00	0,00	0,00	0,00
A.II. Dlhodobý hmotný majetok r.010 až r.020	9	2 614 305,47	2 199 406,32	414 899,15	434 588,72
A.II.1. Pozemky (031)	10	2,92	0,00	2,92	2,92
2. Umelecké diela a zbierky (032)	11	0,00	0,00	0,00	0,00
3. Stavby 021-(081+092 AÚ)	12	645 358,08	327 403,53	317 954,55	330 758,19
4. Samostat. hnut. veci a súb. hnut.vecí 022-(082+092AÚ)	13	1 828 188,09	1 796 964,98	31 223,11	94 890,61
5. Dopravné prostriedky 023-(083+092AÚ)	14	116 554,96	50 836,39	65 718,57	8 937,00
6. Pestovateľské celky trvalých porastov 025-(085+092AÚ)	15	0,00	0,00	0,00	0,00
7. Základné stádo a ťažné zvieratá 026-(086+092AÚ)	16	0,00	0,00	0,00	0,00
8. Drobný dlhodobý hmotný majetok 028-(088+092AÚ)	17	4 106,69	4 106,69	0,00	0,00
9. Ostatný dlhodobý hmotný majetok 029-(089+092AÚ)	18	20 094,73	20 094,73	0,00	0,00
10. Obstaranie dlhodobého hmotného majetku (042-094)	19	0,00	0,00	0,00	0,00
11. Poskytnuté preddavky na DHM (052-095AÚ)	20	0,00	0,00	0,00	0,00
A.III. Dlhodobý finančný majetok súčet r.022 až r.028	21	0,00	0,00	0,00	0,00
A.III.1. Pod. CP a podiely v obch.spol. v ovládanej osobe	22	0,00	0,00	0,00	0,00
2. Pod.CP a podiely v obch. spol. s podst. vplyvom	23	0,00	0,00	0,00	0,00
3. Dlhové CP držané do splatnosti (065-096AÚ)	24	0,00	0,00	0,00	0,00
4. Pôžičky podnikom v skupine a ost. pôžičky	25	0,00	0,00	0,00	0,00
5. Ostat. dlhodobý fin. majetok (069-096AÚ)	26	0,00	0,00	0,00	0,00
6. Obstaranie dlhodobého fin. majetku (043-096AÚ)	27	0,00	0,00	0,00	0,00
7. Poskyt. preddavky na dlhodob fin. majetok(053-096A)	28	0,00	0,00	0,00	0,00

STRANA AKTÍV	č.r.	Bežné účtovné obdobie			Bezprostredne prechádzajúce účtovné obdobie
		Brutto	Korekcia	Netto	
a	b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU r.030+r.037+r.042+r.051	29	626 059,71	0,00	626 059,71	878 178,24
B.I. Zásoby r.031 až r.036	30	0,00	0,00	0,00	0,00
B.I.1. Materiál (112+119)-191	31	0,00	0,00	0,00	0,00
2. Nedok. výr. a polotovary vl. výr. (121+122)-(192+193)	32	0,00	0,00	0,00	0,00
3. Výrobky (123-194)	33	0,00	0,00	0,00	0,00
4. Zvieratá (124-195)	34	0,00	0,00	0,00	0,00
5. Tovar (132+139)-139	35	0,00	0,00	0,00	0,00
6. Poskyt. prevádz. preddávky na zás. (314AÚ-391AÚ)	36	0,00	0,00	0,00	0,00
B.II. Dlhodobé pohľadávky r.038 až r.041	37	0,00	0,00	0,00	276 041,40
B.II.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	38	0,00	0,00	0,00	0,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	39	0,00	0,00	0,00	276 041,40
3. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	40	0,00	0,00	0,00	0,00
4. Iné pohľadávky (335AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	41	0,00	0,00	0,00	0,00
B.III. Krátkodobé pohľadávky r.043 až r.050	42	412 832,04	0,00	412 832,04	352 825,51
B.III.1. Pohľadávky z obch. styku (311AÚ až 314AÚ)-391AÚ	43	500,00	0,00	500,00	0,00
2. Ostatné pohľadávky (315AÚ-391AÚ)	44	0,00	0,00	0,00	0,00
3. Zúčt. so Soc. poisť. a zdrav. poisť. (336)	45	0,00	0,00	0,00	0,00
4. Daňové pohľadávky (341 až 345)	46	0,00	0,00	0,00	0,00
5. Pohl. z dôvodu fin. vzťahov k ŠR a rozp.úz.samospr	47	411 729,00	0,00	411 729,00	352 318,00
6. Pohľadávky voči účastníkom združení (358AÚ-391AÚ)	48	0,00	0,00	0,00	0,00
7. Spojovací účet pri združení (396-391AÚ)	49	0,00	0,00	0,00	0,00
8. Iné pohľadávky (335 AÚ+373AÚ+375AÚ+378AÚ)-391AÚ	50	603,04	0,00	603,04	507,51
B.IV. Finančné účty r.052 až r.056	51	213 227,67	0,00	213 227,67	249 311,33
B.IV.1 Pokladnica (211+213)	52	0,00	0,00	0,00	0,00
2. Bankové účty (221AÚ+261)	53	213 227,67	0,00	213 227,67	249 311,33
3. Bank. účty s dobou viazan.dlhšou ako 1 r. (221AÚ)	54	0,00	0,00	0,00	0,00
4. Krátkodobý fin.	55	0,00	0,00	0,00	0,00
5. Obstaranie krátkodobého fin.majetku (259-291AÚ)	56	0,00	0,00	0,00	0,00
C. ČASOVÉ ROZLIŠENIE SPOLU r.058 a r.059	57	6 007,66	0,00	6 007,66	2 039,25
C.1. Náklady budúcich období (381)	58	6 007,66	0,00	6 007,66	2 039,25
2. Príjmy budúcich období (385)	59	0,00	0,00	0,00	0,00
MAJETOK SPOLU r.001+r.029+r.057	60	3 246 372,84	2 199 406,32	1 046 966,52	1 314 806,21

STRANA PASÍV	č.r.	Bežné účtovné obdobie	Bezprostredne prechádzajúce účtovné obdobie
a	b	5	6
A. VLASTNÉ IMANIE r.062+r.067+r.071+r.072	61	74 703,04	159 647,50
A.I. Imanie a fondy r.063 až r.066	62	2,92	2,92
A.I.1. Základné imanie (411)	63	2,92	2,92
2. Fondy tvorené podľa osobit. predpisov (412)	64	0,00	0,00
3. Fond reprodukcie (413)	65	0,00	0,00
4. Oceňovacie rozdiely z precenenia kap.účasťín (415)	66	0,00	0,00
A.II. Fondy tvorené zo zisku r.068 až r.070	67	3 605,55	0,00
2. Rezervný fond (421)	68	3 605,55	0,00
3. Fondy tvorené zo zisku (423)	69	0,00	0,00
4. Ostatné fondy (427)	70	0,00	0,00
A.III. Nevysporiadaný výsledok hosp. min.rokov (+/-428)	71	87 711,97	87 533,58
A.IV. VÝSLEDOK HOSP. ZA	72	- 16 617,40	72 111,00
B. ZÁVÄZKY r.074+r.078+r.086+r.096	73	116 251,95	31 869,52
B.I.1. REZERVY r.075 až r.077	74	0,00	0,00
2. Rezervy zákonné (451AÚ)	75	0,00	0,00
3. Ostatné rezervy (459AÚ)	76	0,00	0,00
4. Krátkodobé rezervy (323+451AÚ+459AÚ)	77	0,00	0,00
B.II. Dlhodobé záväzky r.079 až r.085	78	77 160,29	7 502,19
B.II.1. Záväzky zo sociálneho fondu (472)	79	988,29	885,19
2. Vydané dlhopisy (473-255AÚ)	80	0,00	0,00
3. Záväzky z nájmu (474AÚ)	81	0,00	0,00
4. Dlhodobé prijaté preddavky (475)	82	0,00	0,00
5. Dlhodobé nevyfakturované dodávky (476AÚ)	83	0,00	0,00
6. Dlhodobé zmenky na úhradu (478)	84	0,00	0,00
7. Ostatné dlhodobé záväzky (373AÚ+479AÚ)	85	76 172,00	6 617,00
B.III. Krátkodobé záväzky r.087 až r.095	86	39 091,66	24 367,33
B.III.1. Záväzky z obchodného styku (321 až 326) okrem 323	87	39 091,66	24 367,33
2. Záväzky voči zamestnancom (331+333)	88	0,00	0,00
3. Zúčt. so Soc. poisťovňou a zdrav.poisťovňami (336)	89	0,00	0,00
4. Daňové záväzky (341 až 345)	90	0,00	0,00
5. Záv. z dôvodu fin. vzťahov k ŠR a rozp.ÚS (346+348)	91	0,00	0,00
6. Záv. z upísaných nesplat. CP a vkladov (367)	92	0,00	0,00
7. Záväzky voči účastníkom združení (368)	93	0,00	0,00
8. Spojovací účet pri združení (396)	94	0,00	0,00
9. Ost. záväzky (379+373AÚ+474AÚ+476AÚ+479AÚ)	95	0,00	0,00
B.IV. Bankové úvery a iné výpomoci a pôžičky r.097 až r.099	96	0,00	0,00
B.IV.1 Dlhodobé bankové úvery (461AÚ)	97	0,00	0,00
2. Bežné bankové úvery (231+232+461AÚ)	98	0,00	0,00
3. Prijaté krátkodobé finančné výpomoci (241+249)	99	0,00	0,00
C. ČASOVÉ ROZLIŠENIE SPOLU r.101 až r.103	100	856 011,53	1 123 289,19
C.I.1. Výdavky budúcich období (383)	101	0,00	0,00
2. Výnosy budúcich období krátkodobé (384AÚ)	102	284 560,46	246 383,44
3. Výnosy budúcich období dlhodobé (384AÚ)	103	571 451,07	876 905,75
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY a ÚČTY ČAS.ROZL.	104	1 046 966,52	1 314 806,21

VÝKAZ ZISKOV A STRÁT

k 31.12.2023

(v eurách zaokrúhlene na dve desatinné miesta)

Za bežné účtovné
obdobie odmesiac
0 1rok
2 0 2 3do mesiac
1 2rok
2 0 2 3Za bezprostredne
predchádzajúce
účtovné obdobie odmesiac
0 1rok
2 0 2 2do mesiac
1 2rok
2 0 2 2

Účtovná závierka

☒ - riadna
☐ - mimoriadna

Daňové identifikačné číslo

2 0 2 0 9 1 9 4 1 7

IČO

0 0 6 7 9 0 9 7 /

SID

Kód SK NACE

7 2 . 1 9 . 0

Názov účtovnej jednotky

Ú s t a v z o o l ó g i e S A V , v . v . i .

Sídlo účtovnej jednotky

Ulica a číslo

D ú b r a v s k á c e s t a 9

PSČ

8 4 5 0 6

Názov obce

B r a t i s l a v a

Smerové číslo telefónu

Číslo telefónu

Číslo faxu

E-mailová adresa

e v a . v r a b l o v a @ s a v b a . s k

Autor: Vráblová

Zostavená dňa

25.1.2024

Podpisový záznam osoby
zodpovednej za vedenie
účtovníctva:Podpisový záznam osoby
zodpovednej za zostavenie
účtovnej závierky:Podpisový záznam štatutárneho
orgánu alebo člena štatutárneho
orgánu účtovnej jednotky:

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
501	Spotreba materiálu	1	151 943,70	0,00	151 943,70	188 877,39
502	Spotreba energie	2	11 679,02	0,00	11 679,02	9 674,97
504	Predaný tovar	3	0,00	0,00	0,00	0,00
511	Opravy a udržiavanie	4	30 936,20	0,00	30 936,20	10 610,06
512	Cestovné	5	46 784,14	0,00	46 784,14	33 410,56
513	Náklady na reprezentáciu	6	1 195,12	0,00	1 195,12	953,31
518	Ostatné služby	7	41 151,01	0,00	41 151,01	35 639,25
521	Mzdové náklady	8	1 045 139,58	0,00	1 045 139,58	875 815,15
524	Zákonné sociálne poistenie a zdravotné poistenie	9	356 003,24	0,00	356 003,24	300 851,08
525	Ostatné sociálne poistenie	10	2 280,00	0,00	2 280,00	2 180,00
527	Zákonné sociálne náklady	11	45 744,59	0,00	45 744,59	39 821,70
528	Ostatné sociálne náklady	12	0,00	0,00	0,00	0,00
531	Daň z motorových vozidiel	13	0,00	0,00	0,00	0,00
532	Daň z nehnuteľností	14	67,89	0,00	67,89	67,89
538	Ostatné dane a poplatky	15	2 064,84	0,00	2 064,84	2 308,10
541	Zmluvné pokuty a penále	16	0,00	0,00	0,00	0,00
542	Ostatné pokuty a penále	17	1 500,00	0,00	1 500,00	0,00
543	Odpísanie pohľadávky	18	0,00	0,00	0,00	0,00
544	Úroky	19	0,00	0,00	0,00	0,00
545	Kurzové straty	20	93,16	0,00	93,16	75,32
546	Dary	21	0,00	0,00	0,00	0,00
547	Osobitné náklady	22	0,00	0,00	0,00	0,00
548	Manká a škody	23	0,00	0,00	0,00	0,00
549	Iné ostatné náklady	24	63 809,54	0,00	63 809,54	65 676,13
551	Odpisy dlhodobého nehmotného majetku a dlhodobého	25	97 491,64	0,00	97 491,64	111 854,74
552	Zostatková cena predaného dlhodobého nehmotného	26	0,00	0,00	0,00	0,00
553	Predané cenné papiere	27	0,00	0,00	0,00	0,00
554	Predaný materiál	28	0,00	0,00	0,00	0,00
555	Náklady na krátkodobý finančný majetok	29	0,00	0,00	0,00	0,00
556	Tvorba fondov	30	0,00	0,00	0,00	0,00
557	Náklady na precenenie cenných papierov	31	0,00	0,00	0,00	0,00
558	Tvorba a zúčtovanie opravných položiek	32	0,00	0,00	0,00	0,00
561	Poskytnuté príspevky organizačným zložkám	33	0,00	0,00	0,00	0,00
562	Poskytnuté príspevky iným účtovným jednotkám	34	0,00	0,00	0,00	0,00
563	Poskytnuté príspevky fyzickým osobám	35	0,00	0,00	0,00	0,00
565	Poskytnuté príspevky z podielu zaplatenej dane	36	0,00	0,00	0,00	0,00
567	Poskytnuté príspevky z verejnej zbierky	37	0,00	0,00	0,00	0,00
	Účtová trieda 5 spolu r. 01 až r. 37	38	1 897 883,67	0,00	1 897 883,67	1 677 815,65

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne prechádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b		1	2	3	4
601	Tržby za vlastné výroby	39	0,00	0,00	0,00	0,00
602	Tržby z predaja služieb	40	6 068,20	0,00	6 068,20	19 855,70
604	Tržby za predaný tovar	41	0,00	0,00	0,00	0,00
611	Zmena stavu zásob nedokončenej výroby	42	0,00	0,00	0,00	0,00
612	Zmena stavu zásob polotovarov	43	0,00	0,00	0,00	0,00
613	Zmena stavu zásob výrobkov	44	0,00	0,00	0,00	0,00
614	Zmena stavu zásob zvierat	45	0,00	0,00	0,00	0,00
621	Aktivácia materiálu a tovaru	46	0,00	0,00	0,00	0,00
622	Aktivácia vnútroorganizačných služieb	47	0,00	0,00	0,00	0,00
623	Aktivácia dlhodobého nehmotného majetku	48	0,00	0,00	0,00	0,00
624	Aktivácia dlhodobého hmotného majetku	49	0,00	0,00	0,00	0,00
641	Zmluvné pokuty a penále	50	0,00	0,00	0,00	0,00
642	Ostatné pokuty a penále	51	0,00	0,00	0,00	0,00
643	Platby za odpísané pohľadávky	52	0,00	0,00	0,00	0,00
644	Úroky	53	0,00	0,00	0,00	0,00
645	Kurzové zisky	54	10,75	0,00	10,75	103,05
646	Prijaté dary	55	1 332,00	0,00	1 332,00	947,10
647	Osobitné výnosy	56	0,00	0,00	0,00	7 080,00
648	Zákonné poplatky	57	0,00	0,00	0,00	0,00
649	Iné ostatné výnosy	58	733,60	0,00	733,60	2 248,02
651	Tržby z predaja dlhodobého nehmotného majetku a	59	0,00	0,00	0,00	0,00
652	Výnosy z dlhodobého finančného majetku	60	0,00	0,00	0,00	0,00
653	Tržby z predaja cenných papierov a podielov	61	0,00	0,00	0,00	0,00
654	Tržby z predaja materiálu	62	0,00	0,00	0,00	0,00
655	Výnosy z krátkodobého finančného majetku	63	0,00	0,00	0,00	0,00
656	Výnosy z použitia fondu	64	0,00	0,00	0,00	0,00
657	Výnosy z precenenia cenných papierov	65	0,00	0,00	0,00	0,00
658	Výnosy z nájmu majetku	66	0,00	0,00	0,00	0,00
661	Prijaté príspevky od organizačných zložiek	67	0,00	0,00	0,00	0,00
662	Prijaté príspevky od iných organizácií	68	36 049,72	0,00	36 049,72	38 492,65
663	Prijaté príspevky od fyzických osôb	69	0,00	0,00	0,00	0,00
664	Prijaté členské príspevky	70	0,00	0,00	0,00	0,00
665	Príspevky z podielu zaplatenej dane	71	0,00	0,00	0,00	0,00
667	Prijaté príspevky z verejných zbierok	72	0,00	0,00	0,00	0,00
691	Dotácie	73	1 837 072,00	0,00	1 837 072,00	1 681 200,13
	Účtová trieda 6 spolu r. 39 až r. 73	74	1 881 266,27	0,00	1 881 266,27	1 749 926,65
	Výsledok hospodárenia pred zdanením r. 74 - r. 38	75	- 16 617,40	0,00	- 16 617,40	72 111,00
591	Daň z príjmov	76	0,00	0,00	0,00	0,00
595	Dodatočné odvody dane z príjmov	77	0,00	0,00	0,00	0,00
	Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77))	78	- 16 617,40	0,00	- 16 617,40	72 111,00

Čl. I. Všeobecné informácie**1. Zakladateľ účtovnej jednotky:**

Názov zriaďovateľa: Slovenská akadémia vied
Sídlo zriaďovateľa: Štefánikova 49, 814 38 Bratislava
Názov účtovnej jednotky: Ústav zoológie SAV, v. v. i.
Sídlo účtovnej jednotky: Dúbravská cesta 9, 845 06 Bratislava
Dátum zriadenia: 1.1.2022
Spôsob zriadenia: zakladacia listina Slovenskej akadémie vied

2. Informácie o členoch štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky:

Štatutárny orgán: Ing. Ladislav Roller, PhD.
Zástupca štatutárneho orgánu: doc. RNDr. Ľubomír Vidlička, CSc.

Organizačná štruktúra:

Riaditeľ: Ing. Ladislav Roller, PhD.
Prvý zástupca riaditeľa: doc. RNDr. Ľubomír Vidlička, CSc.
Vedecký tajomník: Mgr. Igor Kokavec, PhD.
Vedúca ekonomického oddelenia: Ing. Danka Sitarčíková

Vedecká rada:

Predseda: Mgr. Ivana Daubnerová, PhD.
Interní členovia: RNDr. Alžbeta Darolová, CSc.
Mgr. Radovan Václav, PhD.
Externí členovia: Mgr. Ján Kautman (SNM – Prírodovedné múzeum v Bratislave)
Doc. Dr.rer.nat. Peter Vďačný, PhD. (Katedra zoológie, PriFUK)

Správna rada:

Predseda: Ing. Ladislav Roller, PhD.
Členovia: Mgr. Martina Gáliková, PhD.
Prof. PeaDr. Pavol Prokop, DrSc.
Ing. Danko Sitarčíková
doc. RNDr. Ľubomír Vidlička, CSc.

Dozorná rada:

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

Etická komisia:

Predseda: Mgr. Martina Gáliková, PhD.
Členovia: RNDr. Alžbeta Darolová, CSc.
Mgr. Peter Klepsatel, PhD.
Mgr. Veronika Rusňáková Tarageľová, PhD.
RNDr. Dušan Žitňan, DrSc.

3. Opis činnosti účtovnej jednotky:

Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky:

Zoológia (010620), Molekulárna biológia (010614), Genetika (010610), Biochémia (010403), Fyziológia živočíchov (010614), Etológia (010606), Evolučná biológia (010607), Parazitológia (010618), Hydrobiológia (010611), Ekológia (010605), Ostatné príbuzné odbory poľnohospodárskych vied, lesníctva a rybárstva (040199), Ostatné príbuzné odbory veterinárnych vied (040399)

Ďalšími hlavnými činnosťami organizácie sú:

- a) zabezpečovanie a správa infraštruktúry výskumu a vývoja, ku ktorej má organizácia vlastnícke právo alebo iné právo, rozsah infraštruktúry výskumu a vývoja, práva ku ktorej organizácia nadobudla zmenou právnej formy organizácie na verejnú výskumnú inštitúciu dňa 1.1.2022, vyplýva z protokolu medzi Slovenskou akadémiou vied a organizáciou podľa § 21aa ods. 11 zákona o akadémii,
- b) získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky a poznatkov z vlastného výskumu a vývoja organizácie, a to v odboroch uvedených v ods.1, vydávanie časopisu BIOLÓGIA (ISSN:0006-3088),
- c) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia, a to študijných programov zoológia a molekulárna biológia v študijnom odbore biológia,
- d) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi v uvedených odboroch,

- e) spolupráca s mnohými domácimi aj zahraničnými ústavmi a univerzitami, ktoré majú podobné výskumné zameranie,
- f) poskytovanie služieb pre verejnosť (expertízy, monitoring, vyšetrenie kliešťa,...)

4. Priemerný prepočítaný počet zamestnancov a z toho počet vedúcich zamestnancov účtovnej jednotky za účtovné obdobie:

	Bežné účtovné obdobie	Počet hodín vykonávania dobrovoľníckej činnosti
Priemerný prepočítaný počet zamestnancov	45,6	x
z toho počet vedúcich zamestnancov	7	x
Počet dobrovoľníkov vyslaných účtovnou jednotkou	-	x
Počet dobrovoľníkov, ktorí vykonávali dobrovoľnícku činnosť pre účtovnú jednotku počas účtovného obdobia	-	x

5. Organizačná štruktúra:

Riaditeľ: Ing. Ladislav Roller, PhD.
Prvý zástupca riaditeľa: doc. RNDr. Ľubomír Vidlička, CSc.
Vedecký tajomník: Mgr. Igor Kokavec, PhD.
Vedúca ekonomického oddelenia: Ing. Danka Sitarčíková

Vedecké oddelenia: oddelenie ekológie živočíchov
oddelenie systematiky živočíchov
oddelenie medicínskej zoológie
oddelenie molekulárnej fyziológie
oddelenie genetiky a ekofyziológie
ekonomické oddelenie

Detašované pracoviská: Terénna výskumná stanica v Gabčíkove

Čl. II Informácie o účtovných zásadách a účtovných metódach

1. Účtovná závierka bola zostavená za predpokladu nepretržitého trvania jej činnosti.
2. Účtovná jednotka účtuje od 1.1.2022 podľa opatrenia pre neziskové organizácie.
3. Spôsob ocenenia jednotlivých položiek majetku a záväzkov:
 - a) dlhodobý nehmotný a hmotný majetok nakupovaný sa oceňuje obstarávacou cenou. Obstarávacia cena zahŕňa cenu, za ktorú sa majetok obstaral a vedľajšie náklady súvisiace s jeho obstaraním (clo, preprava, montáž, poistné a pod.).

- b) dlhodobý majetok nadobudnutý bezodplatným prevodom pri splnutí, zlúčení, rozdelení alebo pri prevode správy sa oceňuje cenou, v ktorej sa doteraz viedol v účtovníctve. Ak cenu nie je možné zistiť, oceňuje sa reálnou cenou. Dlhodobý majetok obstaraný iným spôsobom (napr. bezodplatne nadobudnutý majetok, novozistený majetok pri inventarizácii) sa oceňuje reálnou cenou. Reálnou hodnotou sa rozumie cena, ktorá sa stanoví kvalifikovaným odhadom, ktorý vychádza spravidla zo súčasnej hodnoty budúcich peňažných príjmov z majetku a budúcich peňažných výdavkov na majetok; diskontná sadzba sa určí ako vnútorná miera návratnosti požadovaná investormi pre daný druh majetku ku dňu jeho ocenenia, za ktorú by sa majetok obstaral v čase, keď sa o ňom účtuje.
- c) zásoby sa oceňujú obstarávacou cenou, ktorá zahŕňa cenu obstarania a náklady súvisiace s obstaraním (clo, preprava, poistné a pod.)
- d) pohľadávky pri ich vzniku sa oceňujú menovitou hodnotou.
- e) finančné prostriedky a ceniny sa oceňujú ich menovitou hodnotou.
- f) príjmy budúcich období a náklady budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
- g) záväzky pri ich vzniku sa oceňujú ich menovitou hodnotou.
- h) rezervy sú záväzky s neistým časovým vymedzením alebo výškou, tvoria sa na základe opatrnosti a oceňujú sa v očakávanej výške záväzku v sume dostatočnej na jeho splnenie.
- i) výdavky budúcich období a výnosy budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
- j) opravné položky k pohľadávkam sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty
- k) účtovná jednotka nie je platiteľom dane z pridanej hodnoty. V prípadoch, keď dodávateľia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia dlhodobého majetku, zásob, nákladov.
- l) prepočet údajov v cudzích menách: Majetok a záväzky vyjadrené v cudzej mene sa prepočítavajú na menu euro referenčným výmenným kurzom určeným a vyhláseným Európskou centrálnou bankou v deň predchádzajúci dňu uskutočnenia účtovného prípadu resp. v deň, ku ktorému sa zostavuje účtovná závierka. Na ocenenie prírastku cudzej meny nakúpenej za menu euro sa použije kurz, za ktorý bola táto cudzia mena nakúpená, alebo referenčný kurz v deň uzavretia obchodu. Na ocenenie prírastku cudzej meny v mene euro nakúpenej za inú cudziu menu sa použije hodnota inej cudzej meny v eurách alebo sa na ocenenie prírastku cudzej meny v eurách použije referenčný kurz v deň uzavretia obchodu.

4. Spôsob zostavenia odpisového plánu dlhodobého hmotného a nehmotného majetku:

Odpisy dlhodobého majetku boli stanovené v súlade so zákonom o účtovníctve. Pri stanovení doby odpisovania sa vychádzalo z predpokladanej doby jeho používania a predpokladaného priebehu jeho opotrebenia. Odpisovať sa začína prvým dňom mesiaca, v ktorom bol dlhodobý majetok zaradený do používania. Metóda odpisovania je rovnomerná podľa § 27 zákona č. 595/2003 Z. z. o dani z príjmov v znení neskorších právnych predpisov.

Predpokladaná doba používania dlhodobého majetku:

Druh dlhodobého majetku	Doba odpisovania	Sadzba odpisov	Odpisová metóda
Dlhodobý nehmotný majetok	4	25%	účtovná
Dlhodobý hmotný majetok			
- budovy, inžinierske stavby	50	2%	účtovná
- stroje, prístroje a zariadenia	4-15	6,67% - 25%	účtovná
- dopravné prostriedky	4 -6	16,67% - 25%	účtovná

Drobný nehmotný majetok do 2 400 Eur, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa účtuje do nákladov na účet 518 – Ostatné služby.

Drobný hmotný majetok do 1 700 Eur, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa považuje za zásoby a účtuje sa do nákladov pri jeho vydaní do spotreby/ účtuje sa do nákladov na účet 501 – Spotreba materiálu.

Čl. III Informácie, ktoré dopĺňajú a vysvetľujú údaje v súvahe

- Účtovná jednotka k 31.12.2023 eviduje prírastky DHM vo výške 17 349,07 Eur na účte 022- Stroje, prístroje, zariadenia, ide o nákup laboratórnych prístrojov – mikroskop, centrifúga, kamera, PC Apple.

Prírastky na účte 023 – Dopravné prostriedky boli na účte vo výške 60 453,00 Eur, ide o nákup služobných motorových vozidiel Suzuki S-Cross a Renault Kangoo, ktoré boli zaradené do evidencie dlhodobého majetku a ktorého obstarávací cena je vo výške 60 453,00 Eur.

- Opis a výška zmien vlastného imania v priebehu bežného účtovného obdobia podľa položiek súvahy.

	Stav na začiatku bežného účtovného obdobia	Prírastky (+)	Úbytky (-)	Presuny (+, -)	Stav na konci bežného účtovného obdobia
Vlastné imanie					
Základné imanie	2,92				2,92
z toho:					
- nadačné imanie v nadácii					
- vklady zakladateľov					
- prioritný majetok					
Fondy tvorené podľa osobitných predpisov					
Fond reprodukcie					

Oceňovacie rozdiely z preceňovania kapitálových účastí					
Fondy tvorené zo zisku					
Rezervný fond	0,00			3 605,55	3 605,55
Fondy tvorené zo zisku					
Ostatné fondy					
Výsledok hospodárenia					
Nevysporiadaný výsledok hospodárenia minulých rokov	87 533,58		-68 327,06	68 505,45	87 711,97
Výsledok hospodárenia účtovného obdobia	72 111,00	-16 617,40		-72 111,00	-16 617,40
Spolu	159 647,50	-16 617,40	-68 327,06	0,00	74 703,04

Kontrolou účtovníctva pri spracovaní účtovnej závierky boli zistené nasledovné skutočnosti o ktorých sme účtovali ako o opravách minulých období:

- Nesprávnym zaúčtovaním Zmluvy č. 890/2022 o poskytnutí prostriedkov z mechanizmu na podporu obnovy a odolnosti vznikol rozdiel vo výške 13 200,- Eur. Zmluva bola zaúčtovaná do výnosov na účet 691 - dotácie- výnosy z bežných transferov a mala byť k 31.12.2022 preúčtovaná na účet 384 – výnosy budúcich období. Účtovná jednotka v roku 2023 tento rozdiel zaúčtovala na účet 384 – výnosy budúcich období oproti účtu 428 – nevysporiadaný výsledok hospodárenia.
- Nesprávnym zaúčtovaním transferov (projekt ŠF iBOL) vznikol rozdiel vo výške 55 127,06 Eur. Finančné prostriedky boli zaúčtované na účet 691 – dotácie- výnosy z bežných transferov a neboli k 31.12.2022 minulé. Účtovná jednotka v roku 2023 tento rozdiel zaúčtovala na účet 384 – výnosy budúcich období oproti účtu 428 – nevysporiadaný výsledok hospodárenia.

- Informácia o rozdelení účtovného zisku alebo o vysporiadaní účtovnej straty za bezprostredne predchádzajúce účtovné obdobie.

Názov položky	Bezprostredne predchádzajúce účtovné obdobie
Účtovný zisk	72 111,00
Rozdelenie účtovného zisku	
Prídel do základného imania	-

Prídel do fondov tvorených podľa osobitných predpisov	-
Prídel do fondu reprodukcie	-
Prídel do rezervného fondu	3 605,55
Prídel do fondov tvorených zo zisku	-
Prídel do ostatných fondov	-
Úhrada straty minulých období	-
Prevod do sociálneho fondu	-
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	68 505,45
Iné	-
Účtovná strata	-
Vysporiadanie účtovnej straty	
Zo základného imania	-
Z rezervného fondu	-
Z fondov tvorených zo zisku	-
Z ostatných fondov	-
Z nerozdeleného zisku minulých rokov	-
Prevod do nevysporiadaného výsledku hospodárenia minulých rokov	-
Iné	-

4. Údaje o významných sumách záväzkov v nadväznosti na položky súvahy, v členení na záväzky za hlavnú nezdaňovanú činnosť a zdaňovanú činnosť.

Druh a opis významných položiek záväzkov	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
Dlhodobé záväzky – so sociálneho fondu	988,29	-
Dlhodobé záväzky – ostatné (APVV)	76 172,00	-
Krátkodobé záväzky – tuzemsko (APVV)	38 243,00	-
Krátkodobé záväzky – nevyfakturované dodávky	848,66	-
Transfery a ostatné zúčtovanie so subj.mimo VS	167 007,23	-
Výnosy budúcich období	689 004,30	-
Spolu	1 155 158,71	-

5. Prehľad záväzkov do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti.

Závazky	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
- do uplynutia lehoty splatnosti	24 367,33	39 091,66
- po uplynutí lehoty splatnosti	-	-
Spolu	24 367,33	39 091,66

6. Prehľad o začiatocnom stave, tvorbe, čerpaní a konečnom zostatku sociálneho fondu v priebehu bežného účtovného obdobia.

Sociálny fond	Suma
Stav k prvému dňu bežného účtovného obdobia	885,19
Tvorba na ťarchu nákladov	9 175,90
Tvorba zo zisku	-
Čerpanie	-9 072,80
Stav k poslednému dňu bežného účtovného obdobia	988,29

7. Prehľad výnosov budúcich období v členení podľa jednotlivých druhov a v členení na dlhodobé výnosy budúcich období a krátkodobé výnosy budúcich období.

Položky výnosov budúcich období - dlhodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
bezodplatne nadobudnutého dlhodobého majetku	-	-
dlhodobého majetku obstaraného z verejných zdrojov	876 905,75	571 451,07
dlhodobého majetku obstaraného z finančného daru	-	-
dlhodobého majetku obstaraného z podielu zaplatenej dane	-	-
dlhodobého majetku obstaraného zo sponzorského	-	-
nepoužitého sponzorského	-	-
iné	-	-
Spolu	876 905,75	571 451,07

Položky výnosov budúcich období - krátkodobé z dôvodu	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
dotácie zo štátneho rozpočtu a z prostriedkov Európskej únie	246 383,44	284 560,45
dotácie z rozpočtu obce a z rozpočtu vyššieho územného celku	-	-
zostatku podielu zaplatenej dane	-	-
nepoužitého sponzorského	-	-
iné	-	-
Spolu	246 383,44	284 560,45

Čl. IV Informácie, ktoré dopĺňajú a vysvetľujú údaje vo výkaze ziskov a strát

- (1) Prehľad tržieb za vlastné výkony a tovar s uvedením ich opisu a vyčíslením hodnoty tržieb podľa jednotlivých hlavných druhov výrobkov, služieb hlavnej nezdaňovanej činnosti a zdaňovanej činnosti účtovnej jednotky za bežné účtovné obdobie.

Druh a opis tržieb	Hlavná nezdaňovaná činnosť	Zdaňovaná činnosť
602- tržby z predaja služieb	6 068,20	-
645- kurzové zisky	10,75	-
646- prijaté dary	1 332,00	-
647- osobitné výnosy	-	-
649- ostatné výnosy	733,60	-
662- prijaté príspevky od iných organizácií	36 049,72	-
691- dotácie	1 837 072,00	-
Spolu:	1 881 266,27	-

- (2) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, osobitné výnosy, zákonné poplatky a iné ostatné výnosy za bezprostredne predchádzajúce účtovné obdobie a za bežné účtovné obdobie.

Na účte **646- prijaté dary** boli zaúčtované odpisy motorového vozidla Suzuki Vitara, ktoré bolo na základe Darovacej zmluvy, zaradené do evidencie dlhodobého majetku.

Na účte **649- ostatné výnosy** boli účtované centové vyrovnania zo zaokrúhľovania cien na faktúrach, pokladničných dokladoch, preplatok za ročné zúčtovanie zdravotného poistenia VŠZP, preplatenie škodovej udalosti služobného MV Kia Sorento.

Druh a opis významných súm výnosov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
646- prijaté dary	947,10	1 332,00
647- osobitné výnosy	-	-
649- ostatné výnosy	2 248,02	733,60
Spolu:	3 195,12	2 065,60

(3) Prehľad významných súm dotácií zo štátneho rozpočtu, štátnych fondov, z prostriedkov Európskej únie, dotácií z rozpočtu obce a z rozpočtu vyššieho územného celku, ktoré účtovná jednotka prijala v bezprostredne predchádzajúcom účtovnom období a v bežnom účtovnom období.

Druh a opis významných súm dotácií a grantov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
662- prijaté príspevky od iných organizácií	38 492,65	36 049,72
691- dotácie	1 681 200,13	1 837 072,00
Spolu:	1 719 692,78	1 873 121,72

(4) Opis a vyčíslenie hodnoty významných súm v nadväznosti na položky výkazu ziskov a strát v členení na nepeňažné dary, náklady na ostatné služby, osobitné náklady a iné ostatné náklady poskytnuté v bežnom účtovnom období.

Druh a opis významných položiek nákladov	Stav na konci bezprostredne predchádzajúceho účtovného obdobia	Stav na konci bežného účtovného obdobia
501- spotreba materiálu	188 877,39	151 943,70
502- spotreba energie	9 674,97	11 679,02
511- opravy a udržiavanie	10 610,06	30 936,20
512- cestovné	33 410,56	46 784,14
513- náklady na reprezentáciu	953,31	1 195,12
518- ostatné služby	35 639,25	41 151,01
521- mzdové náklady	875 815,15	1 045 139,58
524- zákonné sociálne poistenie a zdravotné poistenie	300 851,08	356 003,24
525- ostatné sociálne poistenie	2 180,00	2 280,00

527- zákonné sociálne náklady	39 821,70	45 744,59
532- daň z nehnuteľností	67,89	67,89
538- ostatné dane a poplatky	2 308,10	2 064,84
542- ostatné pokuty a penále	0,00	1 500,00
545- kurzové straty	75,32	93,16
549- iné ostatné náklady	65 676,13	63 809,54
551- odpisy dlhodobého HM a NM	111 854,74	97 491,64
Spolu:	1 677 815,65	1 897 883,67

Čl. V Opis údajov na podsúvahových účtoch

Účtovná jednotka vedie na podsúvahových účtoch evidenciu majetku, ktorý spĺňa kritéria drobného majetku v obstarávacej cene nižšej ako 1 700,- Eur a drobného nehmotného majetku v obstarávacej cene nižšej ako 2 400,- Eur.

Nakoľko v roku 2021 došlo k vyhláseniu našej nehnuteľnosti Dvor roľnícky v Stankovanoch, obec Stankovany, súpisné číslo 522 evidované na pozemku parcelné číslo 2370, list vlastníctva č. 304 za kultúrnu pamiatku, v roku 2023 sme preúčtovali ID 081/021 a vedíme ho na podsúvahovom účte 791 021- podsúvahový účet- DHM- Podšíp.

Čl. VI Ďalšie informácie

1. Prehľad nehnuteľných kultúrnych pamiatok, ktoré sú v správe alebo vo vlastníctve účtovnej jednotky:

Dvor roľnícky v Stankovanoch, obec Stankovany, súpisné číslo 522 evidovaný na pozemku parcelné číslo 2370, list vlastníctva č. 304.

2. Podľa § 21aa zákona č. 133/2002 Z. z. o Slovenskej akadémii vied v znení neskorších predpisov od 1.1.2022 účtovná jednotka zmenila právnu formu hospodárenia na verejnú výskumnú inštitúciu. Zakladateľom je Slovenská akadémia vied.

3. Informácie o významných skutočnostiach, ktoré nastali medzi dňom, ku ktorému sa zostavuje účtovná závierka a dňom jej zostavenia: Na základe pokynu z Ekonomicko-technického odboru Úradu SAV a Ministerstva financií Slovenskej republiky boli k 1.1.2024 odúčtované prísľuby z priznaných dotácií na roky 2025-2027 vo výške 155 083,00 € z dlhodobých záväzkov

21. Výrok štatutárneho audítora k ročnej účtovnej závierke

K ročnej účtovnej závierke za rok 2023 nebola vyhotovená správa audítora.

22. Prehľad príjmov a výdavkov

Prehľad príjmov a výdavkov z:

Príjem

Výdavok

1. z hlavnej činnosti okrem druhého a tretieho bodu	1 881 794,15	1 917 980,91
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)		

23. Pohyb a konečný stav majetku

Počiatočný stav majetku k 1.1.2023	Pohyb majetku	Konečný stav majetku k 31.12.2023
1 314 806,21	-267 839,69	1 046 966,52

24. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

Neboli identifikované žiadne nedostatky a preto neboli prijaté žiadne opatrenia.

25. Ďalšie údaje o hospodárení organizácie

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

RNDr. Mária Kazimírová, CSc., 02/5930 2645

Ing. Ladislav Roller, PhD., 02/5930 2640

Ing. Danko Sitarčíková, 02/5930 2603

Výročná správa bola prerokovaná:

- dňa 21.6.2024 Správnou radou bez pripomienok
- dňa 21.6.2024 Vedeckou radou bez pripomienok
- dňa 3.7.2024 Dozornou radou bez pripomienok.

Bratislava, 8.7.2024

elektronický podpis riaditeľa

K ročnej účtovnej závierke za rok 2023 nebola vyhotovená správa audítora.