

Ústav zoológie SAV



**Správa o činnosti organizácie SAV
za rok 2021**

Bratislava
január 2022

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav zoológie SAV

Riaditeľ: RNDr. Dušan Žitňan, DrSc.

Zástupca riaditeľa: Ing. Ladislav Roller, PhD.

Vedecký tajomník: doc. RNDr. Ľubomír Vidlička, CSc.

Predseda vedeckej rady: Ing. Ladislav Roller, PhD.

Člen Snemu SAV: RNDr. Dušan Žitňan, DrSc.

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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: Príspevková od roku 1992

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	53	31	22	5	5	53	51.78	20.46	2

Vedeckí pracovníci	36	25	11	3	0	36	27.36	19.91	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹⁾)	5	2	3	2	2	5	2.7	0.55	0
Odborní pracovníci VŠ (ostatní zamestnanci ²⁾)	3	1	2	0	0	3	3.2	0	1
Odborní pracovníci ÚS	6	2	4	0	2	6	15.99	0	1
Ostatní pracovníci	3	1	2	0	1	3	2.53	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 31.12.2021 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2021 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2021)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	3	22	2	3	4	13	8
Ženy	0	11	0	0	0	7	4

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

Veková štruktúra (roky)	< 31		31-35		36-40		41-45		46-50		51-55		56-60		61-65		> 65	
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Muži	1	1.0	2	2.0	2	2.0	1	0.5	1	1.0	2	2.0	1	1.0	3	1.8	3	1.2
Ženy	0	0.0	0	0.0	3	3.0	3	3.0	1	0.5	0	0.0	0	0.0	2	2.0	0	0.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2021

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49.6	50.9	51.6
Ženy	43.1	46.4	46.7
Spolu	46.9	49.5	49.8

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2021

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	4	-	-	67991	67991	-	8997
2. Projekty APVV	4	2	-	-	163426	163426	-	27762
3. Projekty EŠIF/OP ŠF	0	1	-	-	-	-	-	25468
4. Projekty SASPRO, MoRePro	1	0	-	-	28194	28194	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	-	-	2600	2600	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2021

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2021	-	2	
2. Projekty výziev EŠIF podané r. 2021	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2021

Tabuľka 2c Medzinárodné projekty riešené v roku 2021

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	0	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	0	1	-	-	-	-	-	15000
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	1	1	-	-	24000	24000	-	2870
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	1	1	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2021

Tabuľka 2d Počet projektov Horizont Európa v roku 2021

	A	B
Počet podaných projektov Horizont Európa		

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe B.

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

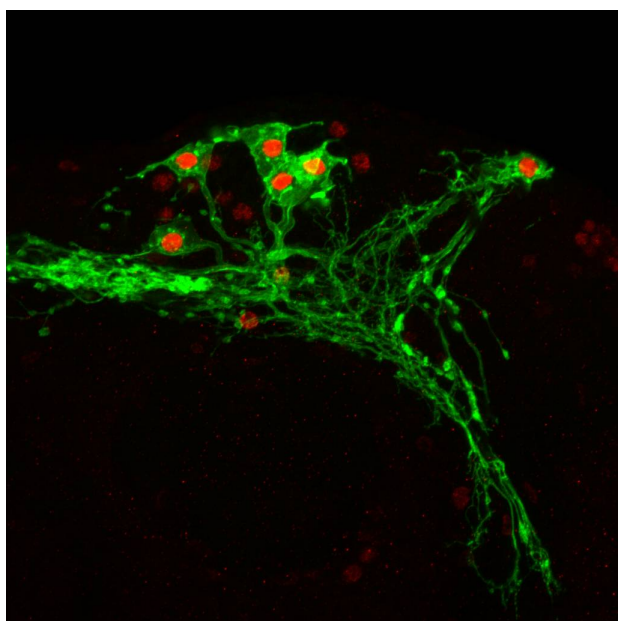
2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2021

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

Šesť párov cirkadiálnych neurónov v mozgu *Drosophila melanogaster* produkuje neuropeptid allatostatín C a riadi rytmy v procese oogenézy

Všetky mnohobunkové organizmy optimalizujú načasovanie rozmnožovania tak, aby maximalizovali pravdepodobnosť úspešnej reprodukcie. Meniaca sa dĺžka dňa v priebehu ročných období slúži ako environmentálny signál pre vnútorné biologické hodiny, ktoré potom riadia a koordinujú všetky potrebné fyziologické zmeny. Prepojenie medzi biologickými hodinami a sezónnymi zmenami však stále nie je úplne objasnené. Muška *Drosophila melanogaster* je vďaka dobre definovanej sieti cirkadiálnych neurónov v mozgu kľúčovým modelovým organizmom v oblasti chronobiológie. Zároveň tento druh vykazuje výraznú dennú (diurnálnu) rytmickosť v procese oogenézy. V našej práci sa nám podarilo zistiť, že na vytváraní týchto rytmov sa podieľa podskupina cirkadiálnych neurónov v mozgu *Drosophily*, označovaných ako DN1p, ktoré produkujú neuropeptid allatostatín C (AstC). Šesť párov AstC-DN1p buniek priamo vysiela inhibičné signály do neurónov produkujúcich inzulín, čím tlmí ich aktivitu a vylučovanie inzulínov. Inzulínová signalizácia, okrem iného, stimuluje tvorbu a sekréciu tzv. juvenilného hormónu (JH), ktorý je potrebný na vitelogenézu a vývoj oocytov. Inhibícia inzulínových buniek tak znižuje produkciu JH, čo vedie k následnému utlmeniu vitelogenézy. Aktivita AstC-DN1p neurónov sa v priebehu 24 hodín mení - najvyššia je na začiatku dňa a najnižšia v poobedňajších hodinách. Tým je cyklicky modulované vylučovanie inzulínov a začiatok vitelogenézy. Naše výsledky naznačujú, že AstC je funkčným ekvivalentom neuropeptidu somatostatínu (SST) stavovcov, ktorý taktiež nepriamo potláča produkciu gonadotropínov a zároveň odhaľujú, aké mechanizmy sa podieľajú na načasovaní reprodukcie u sezónne sa rozmnožujúcich druhov živočíchov.



Obrázok 1. Šesť párov "hodinových" neurónov v mozgu muchy *Drosophila melanogaster*, ktoré sa podieľajú na riadení cirkadiálnych rytmov tvorby vajíčok (oogenézy).

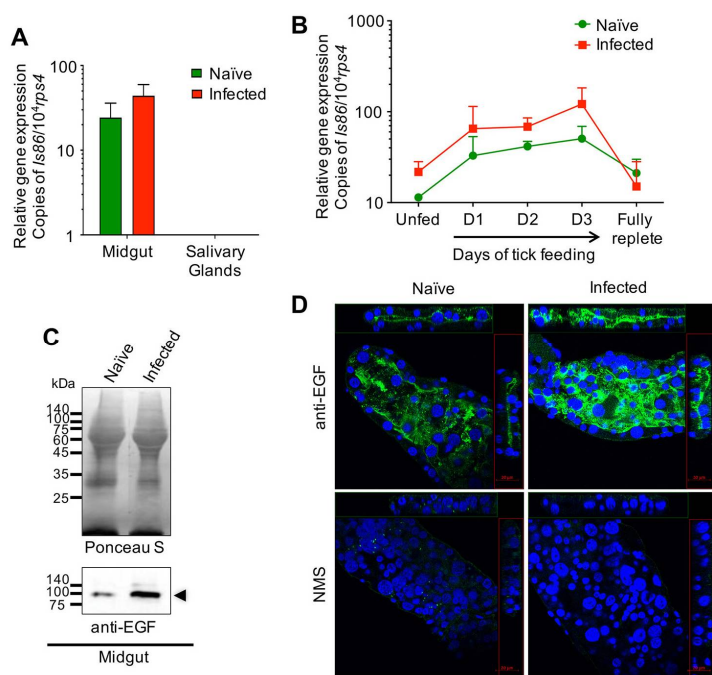
- 1) DAUBNEROVÁ, Ivana - ROLLER, Ladislav - SATAKE, Honoo - ZHANG, Chen - KIM, Young-Joon - ŽITŇAN, Dušan**. Identification and function of ETH receptor networks in the silkworm *Bombyx mori*. In Scientific Reports, 2021, vol. 11, no. 1, art. no.11693. (2020: 4.379 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). - Typ: **ADCA**
- 2) ZHANG, Chen - DAUBNEROVÁ, Ivana* - JANG, Yong-Hoon - KONDO, Shu - ŽITŇAN, Dušan - KIM, Young-Joon**. The neuropeptide allatostatin C from clock-associated DN1p neurons generates the circadian rhythm for oogenesis. In Proceedings of the National Academy of Sciences of the United States of America, 2021, vol. 118, iss. 4, article number: e2016878118. (2020: 11.205 - IF, Q1 - JCR, 5.011 - SJR, Q1 - SJR, karentované - CCC). - Typ: **ADCA**

2.3.2. Výsledky aplikačného typu

A) Protilátky proti doménam podobným EGF v ortológoch *Ixodes scapularis* BM86 ovplyvňujú cicanie kliešťov a prežívanie *Borrelia burgdorferi*.

Glykoproteín Bm86, pôvodne izolovaný z kliešťov *Rhipicephalus microplus*, predstavuje jediný kliešťový antigén, ktorý bol komerčne vyvinutý ako vakcína proti kliešťom, ktorá chráni imunizovaný dobytok pred napadnutím kliešťami. Vakcína je čiastočne účinná aj pri blokovaní prenosu určitých patogénov prenášaných kliešťami, ako sú parazity *Babesia*. Zistili sme, že imunizácia špecifickými doménami podobnými epidermálnemu rastovému faktoru (EGF) v kliešťoch *Ixodes scapularis* čiastočne ovplyvňuje cicanie kliešťov a úspešnosť ich metamorfózy, ako aj prežívanie *B. burgdorferi*. Identifikovali sme dva homológy Bm86, ktoré vykazujú relatívne nízku sekvenčnú identitu. Napriek absencii účinkov potlačenia génov, čiastočný vplyv imunizácie skrátenými antigénmi naznačuje potenciálne úlohy domén podobných EGF v biológii kliešťov. Dôležitosť týchto domén alebo podobných antigénov v súvislosti s biológiou kliešťov je zvýraznená najmä: (1) ich indukciou počas procesu cicania kliešťov, a čo je dôležitejšie počas infekcie kliešťov *B. burgdorferi*, (2) ich extracelulárna lokalizácia, najmä smerom k lumenálnym povrchom buniek stredného čreva, a následná dostupnosť protilátok (Obr. 1), (3) zvýšená expresia počas jednotlivých vývojových štádií kliešťov, (4) schopnosti anti-EGF antisér čiastočne ovplyvňujú viaceré aspekty biológie kliešťov, vrátane cicania a metamorfózy, a napokon (5) ich vplyvy na prežívanie spirochét v kliešťoch, pokiaľ ide o akvizíciu patogéna a prenos cez vektor do hostiteľa. Aby bolo možné rozšíriť tieto sľubné výsledky, účinok imunizácie EGF na prenos borélií si vyžaduje prepracovanejšie štúdie, aby sa lepšie stanovil vakcinačný potenciál týchto antigénov. Nakoľko ortológy Bm86 nesú značnú

sekvenčnú homológiu s blízko príbuznými kliešťami, ako je *Ixodes ricinus*, podobné štúdie by objasnili potenciál domén EGF ako globálnych vakcín.

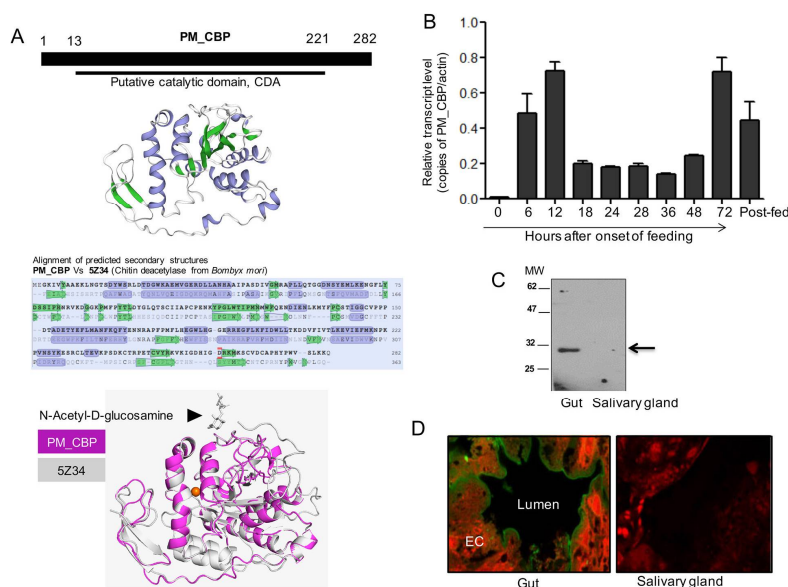


Obrázok 1. Expresia a lokalizácia Is86 v kliešťoch *I. scapularis*. (A) Orgánšpecifická génová expresia Is86 v kliešťoch a (B) kinetika expresie Is86 počas cicania kliešťa meraná pomocou qPCR. (C) Expresia proteínu Is86 je indukovaná v črevách kliešťov infikovaných *B. burgdorferi*. Šípka označuje najmä indukovaný Is86 v črevách infikovaných spirochétami. (D) Is86 (zelená) je lokalizovaná smerom k lumenálnemu povrchu nenacicaného čreva kliešťa, ako je znázornené na obrázkoch Z-stack.

- 1) **KOČI, Juraj*** - BISTA, Sandhya - CHIRANIA, Payal - YANG, Xiuli - KITSOU, Chrysoula - RANA, Vipin S. - YAS, Ozlem B. - SONENSHINE, Daniel E. - PAL, Utpal. Antibodies against EGF-like domains in *Ixodes scapularis* BM86 orthologs impact tick feeding and survival of *Borrelia burgdorferi*. In Scientific Reports, 2021, vol. 11, no. 1, art. no. 6095. (2020: 4.379 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). - Typ: ADCA

B) Nový kliešťový proteín podporuje integritu peritrofickej matrice čreva a ovplyvňuje existenciu črevného mikrobiómu a patogénov Lymfkej boreliózy.

U článkonožcov je peritrofickej membrána (PM) acelulárna pásovitá štruktúra, ktorá vystiela črevný epitel a vzniká počas cicania krvi. Naša štúdia charakterizuje proteín viažuci chitín spojený s PM u kliešťa *Ixodes scapularis* (Obr. 2). Zistili sme, že potlačenie expzie tohto proteínu znižuje hrúbku PM a ovplyvňuje jej integritu, čím sa zvyšuje priepustnosť pre veľké molekuly. Následne sme pozorovali znížené cicanie kliešťov, u ktorých bola štruktúra PM narušená potlačením génovej expzie študovaného proteínu. Napriek tomu boli kliešte po potlačení expzie génu stále schopné s určitým oneskorením úspešne ukončiť cicanie. Z našich výsledkov je zrejmé, že protilátky študovaného proteínu ovplyvňujú nielen perzistenciu pôvodcov lymfkej choroby, *Borrelia burgdorferi*, ale ovplyvňujú aj celkovú mikrobiálnu diverzitu v čreve kliešťa. Naša štúdia naznačuje, že proteín podporuje štrukturálnu integritu PM u kliešťov, ovplyvňuje jeho biologickú funkciu a zvyšuje borreliacídne reakcie v čreve kliešťa. Keďže potlačenie génu do určitej miery oneskoruje cicanie kliešťov a zhoršuje prežívanie a prenos pôvodcu lymfkej boreliózy, antigén by mohol byť zložkou budúcich vakcín proti kliešťom a ochoreniam prenášaným kliešťami, ako sa ukázalo aj pri potenciálnom použití chitindeacetylázy (CDA) článkonožcov vo forme agrochemikálií na kontrolu škodcov.



Obrázok 2. Charakterizácia proteínu viažuceho chitín na peritrofickej membráne (PM_CBP) u kliešťov. (a) Štrukturálne vlastnosti proteínu PM_CBP. (b) Kinetika expzie PM_CBP počas cicania kliešťov. detegovaná kvantitatívnou RT-PCR. (c) PM_CBP je exprimovaný v čreve kliešťa. Expzia proteínu PM_CBP sa detegovala Western blotom. (d) PM_CBP (zelená) lokalizovaný na povrchu čreva kliešťa a bunkové jadrá (červená) boli vizualizované konfokálnym mikroskopom.

- 2) YANG, Xiuli - **KOČI, Juraj** - SMITH, Alexis A. - ZHUANG, Xuran - SHARMA, Kavita - DUTTA, Shraboni - RANA, Vipin S. - KITSOU, Chrysoula - YAS, Ozlem B. - MONGODIN, Emmanuel F. - PAL, Utpal. A novel tick protein supports integrity of gut peritrophic matrix impacting existence of gut microbiome and Lyme disease pathogens. In Cellular microbiology, 2021, vol. 23, no. 2, art. no. 13275. (2020: 3.715 - IF, Q2 - JCR, 1.542 - SJR, Q1 - SJR, karentované - CCC). - Typ: ADCA

2.3.3. Výsledky na báze medzinárodnej spolupráce

Epoxidácia juvenilného hormónu ako kľúčová inovácia zlepšujúca reprodukčnú zdatnosť hmyzu

Metylfarnesoát (MF) má hormonálnu regulačnú úlohu u kôrovcev. Epoxidovaná forma MF, známa ako juvenilný hormón (JH), riadi metamorfózu a stimuluje reprodukciu hmyzu. Aby sme vyriešili evolučný význam epoxidácie MF, vytvorili sme komáre, ktorým úplne chýba jeden z dvoch enzýmov, ktoré katalyzujú posledné kroky biosyntézy MF/JH a epoxidácie: kyslú metyltransferázu JH (JHAMT) a epoxidázu P450 CYP15 (EPOX). Larvy *jhamt2/2* bez MF aj JH uhynuli na začiatku metamorfózy. Je však pozoruhodné, že mutanty *epox2/2*, ktoré syntetizovali MF, ale nie JH, dokončili celý životný cyklus. Zatiaľ čo dospelí *epox2/2* boli plodní, reprodukčná výkonnosť oboch pohlaví bola dramaticky znížená. Naše výsledky naznačujú, že hoci MF môže nahradiť absenciu JH u komárov, je to s významnými nákladmi na fitness. Predpokladáme, že MF by mohol plniť väčšinu úloh JH, ale jeho epoxidácia na JH bola kľúčovou inováciou poskytujúcou hmyzu reprodukčnú výhodu. V ďalšej štúdii sme sledovali de novo dynamiku triglyceridov (TG) počas ovariálneho previtelogénneho (PVG) štádia (2–7 dní po eklózii) dospelých samíc *Aedes aegypti*. Začlenenie stabilných izotopov z potravy sa vyhodnotilo pomocou kvapalinovej chromatografie (LC). LC-UHRMS poskytuje účinnú separáciu tried lipidov a identifikáciu chemického vzorca na základe jemnej izotopickej štruktúry. Monitorovanie stabilnej inkorporácie izotopov do de novo začlenených TG naznačuje, že ovariálne lipidy sa spotrebúvajú alebo recyklujú počas štádia PVG s premenlivou časovou dynamikou. Tieto výsledky poskytujú ďalší dôkaz o zložitosti molekulárneho mechanizmu dynamiky folikulárnych lipidov počas oogenézy u komárov.



- 1) NOUZOVÁ, Marcela - EDWARDS, M.J. - MICHALKOVÁ, Veronika - RAMIREZ, Cesar E. - RUIZ, Marnie - AREIZA, Maria - DEGENNARO, Matthew - FERNANDEZ-LIMA, Francisco - FEYEREISEN, Rene - JINDRA, Marek** - NORIEGA, Fernando G.*. Epoxidation of juvenile hormone was a key innovation improving insect reproductive fitness. In Proceedings of the National Academy of Sciences of the United States of America, 2021, vol. 118, no. 45, e2109381118, 9 pp. (2020: 11.205 - IF, Q1 - JCR, 5.011 - SJR, Q1 - SJR, karentované - CCC). - Typ: **ADCA**
- 2) VALADARES TOSE, Lilian - WEISBROD, Chad R. - MICHALKOVÁ, Veronika - NOUZOVÁ, Marcela - WEISBROD, Chad R. - FERNANDEZ-LIMA, Francisco. Following de novo triglyceride dynamics in ovaries of *Aedes aegypti* during the previtellogenic stage. In Scientific Reports, 2021, vol. 11, no. 1, article number 9636, 9 pp. (2020: 4.379 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). - Typ: **ADCA**

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2021/ doplňky z r. 2020
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)	4 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	43 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	5 / 1
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	4 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	0 / 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	1
18. Ostatné vydané periodiká	0
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. 2020 (zdroj JCR) <i>Počet článkov / doplnky</i>	21 / 0	14 / 0	4 / 0	9 / 0	48 / 0
Podľa SJR z r. 2020 (zdroj Scimago) <i>Počet článkov / doplnky</i>	30 / 0	10 / 0	7 / 0	1 / 1	48 / 1

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2020/ doplnky z r. 2019
Citácie vo WOS (1.1, 2.1)	1412 / 91
Citácie v SCOPUS (1.2, 2.2)	381 / 82
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	1 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	163 / 6
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	8
Prednášky a vývesky na národných vedeckých podujatiach	1

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2021

2.7.1. Vynálezy, na ktoré bol v roku 2021 udelený patent

a) na Slovensku

b) v zahraničí

Názov vynálezu: Trombin Inhibitors

Číslo patentu: US 10,906,946 B2

Dátum priority: 3.1.2019

Majiteľ / spolumajiteľ: National University of Singapore , Singapore (SG) ; Institute of Zoology , Slovak Academy of Sciences , Bratislava (SK)

Pôvodcovia vynálezu: Kazimírová Mária, Roller Ladislav, Janaki Krishnamoorthy Iyer , Singapore (SG) ; Cho Yeow Koh , Singapore (SG) ; R. Manjunatha Kini , Singapore (SG)

Názov vynálezu: Novel thrombin inhibitors

Číslo patentu: JP6813510B2

Dátum priority: 17.6.2016

Majiteľ / spolumajiteľ: National University of Singapore , Singapore (SG), Institute of Zoology , Slovak Academy of Sciences , Bratislava (SK)

Pôvodcovia vynálezu: Kazimírová Mária, Roller Ladislav, Janaki Krishnamoorthy Iyer , Singapore (SG) ; Cho Yeow Koh , Singapore (SG) ; R. Manjunatha Kini , Singapore (SG)

Názov vynálezu: Novel thrombin inhibitors

Číslo patentu: RU2745847C2

Dátum priority: 17.6.2016

Majiteľ / spolumajiteľ: National University of Singapore , Singapore (SG), Institute of Zoology , Slovak Academy of Sciences , Bratislava (SK)

Pôvodcovia vynálezu: , Janaki Krishnamoorthy Iyer , Singapore (SG) ; Cho Yeow Koh , Singapore (SG) ; R. Manjunatha Kini , Singapore (SG)

2.7.2. Vynálezy prihlásené v roku 2021

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2021

b) udelené v roku 2021

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 2021 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
Kazimírová Mária	VEGA	1
Prokop Pavol	APVV	3
	VEGA	3
Roller Ladislav	VEGA	4
Vidlička Ľubomír	VEGA	3
Žitňan Dušan	APVV	11

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	0	0	1	0	0	0	0
Darolová Alžbeta	0	0	1	0	0	0	0
Derdáková Markéta	0	0	4	0	0	0	0
Derdáková Markéta	0	0	0	0	1	0	0
Didyk Yuliya	0	0	3	0	0	0	0
Gáliková Martina	0	0	4	0	0	0	0
Kalúz Stanislav	0	0	11	1	0	0	0
Kazimírová Mária	0	0	32	9	0	0	0
Klepsatel Peter	0	0	8	0	0	0	0
Prokop Pavol	0	0	25	0	0	0	0
Roller Ladislav	1	0	2	2	0	0	0
Václav Radovan	0	0	2	0	0	0	0
Vidlička Ľubomír	0	0	5	3	14	0	0
Spolu	1	0	98	15	15	0	0

2.11. Iné informácie k vedeckej činnosti.

Rok 2021 bol pre Ústav zoológie SAV opäť úspešný v publikačnej oblasti. Pracovníci ÚZ SAV boli autormi a spoluautormi 3 zahraničných monografií a jednej kapitoly v zahraničnej monografii, 2 článkov publikovaných v Proceedings of the National Academy of Sciences of the United States of America (IF 11,205); 2 článkov v časopise Viruses (IF 5,048); ďalej články v časopisoch Science of the Total Environment (IF 7,963), International Journal of Molecular Sciences (IF 5,923), Proceedings of the Royal Society: B : Biological Sciences (IF 5,349) a Journal of sex research (IF 5,141). Celkovo sme publikovali takmer 50 článkov v kvalitných impaktovaných časopisov. Vysoké nároky na kvalitu výsledkov a publikačných výstupov sú trvalou prioritou ústavu.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2021

Forma	Počet k 31.12.2021				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2021					
							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	5	3	1	0	2	0	0	1	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	1	0	0	0	0	0
Externá	0	1	0	0	0	0	0	0	0	0	0	0
Spolu	5	4	1	0	2	0	1	1	0	0	0	0
Z toho zahraničných	1	0	0	0	0	0	0	0	0	0	0	0
Súhrn	9		1		2		2		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2021 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

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

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení z dennej formy na externú a z externej na dennú

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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2021 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. Zuzana Gáliková	interné štúdium hrazené z prostriedkov SAV	9 / 2015	8 / 2021	4.2.3 molekulárna biológia	RNDr. Dušan Žitňan DrSc., Ústav zoológie SAV	Prírodovedecká fakulta UK
Mgr. Ján Kočíšek	interné štúdium hrazené z iných zdrojov	9 / 2017	8 / 2021	ekológia	RNDr. Dušan Žitňan DrSc., Ústav zoológie SAV	Prírodovedecká fakulta UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2021 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
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3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2021 (obhajoba leto 2021)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
1	0	0	0	0

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

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

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

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

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

Tabuľka 3g Zoznam študijných odborov, na ktoré má ústav uzatvorenú rámcovú dohodu, s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
molekulárna biológia	4.2.3	molekulárna biológia	Prírodovedecká fakulta UK
zoológia	4.2.5	zoológia	Prírodovedecká fakulta UK
zoológia	4.2.5		Univerzita Komenského v Bratislave
			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>.

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.

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií pre doktorandské štúdium	Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt	Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň
prof. PaedDr. Pavol Prokop, DrSc. (ochrana a využívanie krajiny)	prof. PaedDr. Pavol Prokop, DrSc. (Prírodovedecká fakulta UK)	
Ing. Ladislav Roller, PhD. (zoológia)	doc. RNDr. Ľubomír Vidlička, CSc. (Slovenské národné múzeum)	
doc. RNDr. Michal Stanko, DrSc. (zoológia)		
doc. RNDr. Ľubomír Vidlička, CSc. (ochrana a využívanie krajiny)		
Mgr. Peter Vršanský, PhD. (paleontológia)		
RNDr. Dušan Žitňan, DrSc. (molekulárna biológia)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2021

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	8	0	2	0
Celkový počet hodín v r. 2021	98	0	38	0

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

Tabuľka 3j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	15
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	24
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	5
4.	Počet školených doktorandov (aj pre iné inštitúcie)	8
5.	Počet oponovaných dizertačných a habilitačných prác	11
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	6
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	0
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	6
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

3.9. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2021 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2022 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. 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)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

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

A) Celoštátna stredoškolská súťaž BARS (spolupráca Ministerstva školstva a Zastupiteľstva Ruskej Federácie v Bratislave) prilákala 236 registrácií pre 4-členné tímy (s lektorom). V najstaršom paleontologickom časopise *Palaeontographica Abteilung A* (Q1) vyšlo pod vedením PI (Wappler T, Vršanský P, EDS 2021) celé špeciálne číslo o fosílnych šváboch, prvé špeciálne číslo časopisu od roku 1826 (12 článkov), ktoré posunulo celé odvetvie. 8 článkov od riešiteľov. Okrem toho vyšli 2 články (Biologia, Amba projekty):

- 1) HINKELMAN, J. (2021a). Mongolblatta sendii sp. n. (Mesoblattellidae) from North Myanmar amber links record to Laurasian sediments. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 81–96. <https://doi.org/10.1127/pala/2021/0105>
- 2) HINKELMAN, J. (2021b). Cuniculoblatta brevialata gen. et sp. n., the second case of brachyptery from Cretaceous North Myanmar amber. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 97–107. <https://doi.org/10.1127/pala/2021/0104>
- 3) SENDI, H. (2021a). Highly specialised basal ectobiid cock roaches (Blattaria: Blattoidea) were rare in Burmese amber. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 109–125. <https://doi.org/10.1127/pala/2021/0106>
- 4) SENDI, H. (2021b). Diverse Libellulidae (Insecta: Blattaria) from Lebanese and North Myanmar amber document allometric modifications near lowest size limit. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 127–148. <https://doi.org/10.1127/pala/2021/0108>
- 5) VRŠANSKÝ, P., VRŠANSKÁ, L., VASILENKO, D. V., PUŠKELOVÁ, L., & BIRON, A. (2021a). An isolated Cretaceous analogue of Madagascar on the Adria–Turkey microcontinent indicated by fossils in Brezina, Algeria. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 19–35. <https://doi.org/10.1127/pala/2021/0107>
- 6) VRŠANSKÝ, P., POSCHMANN, M. J., & VIDLIČKA, E. (2021b). Oligocene pseudophyllodromiine cockroach from the Enspel Fossilagerstätte in Germany. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 149– 67. <https://doi.org/10.1127/pala/2021/0111>
- 7) WAPPLER, T., VRŠANSKÝ, P. (2021). Cockroaches-Masters of ancient non-aquatic ecosystems. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 1–2.
- 8) ŠMÍDOVÁ, L., VIDLIČKA, E., WEDMANN, S. (2021) Appearance of the family Blaberidae (Insecta: Blattaria) during the Cretaceous and a review of fossils of this family. *Palaeontographica. Abteilung A, Paläozoologie, Stratigraphie*, 321(1-6), 71–79.
- 9) VRŠANSKÝ, P., SENDI, H., HINKELMAN, J., HAIN, M. (2021) Alienopterix Mlynský et al., 2018 complex in North Myanmar amber supports Umenocoleoidea/ae status. *Biologia* 76: 2207–2224.
- 10) VRŠANSKÝ, P., HINKELMAN, J., KOUBOVÁ, I., SENDI, H., KÚDELOVÁ, T., KÚDELA, M., BARCLAY, M. A. (2021) single common ancestor for praying mantids, termites, cave roaches and umenocoleoids. *Amba projekty 2021*, 11(1): 1-16.

B) Vínna muška drozofila obyčajná (*Drosophila melanogaster*) je populárnym bezstavovčím modelom v rôznych oblastiach biológie, vrátane modelovania ľudských ochorení. V našom výskume používame drozofilu pre štúdium energetickej homeostázy, predovšetkým regulácií tukového metabolizmu. Cieľom tohto projektu je objasnenie prepojenia medzi rozmnožovaním a tukovým metabolizmom. Sústreďime sa najmä na steroidné hormóny ekdysteroidy, ktoré sa dajú považovať za kandidátne faktory sprostredkujúce trade-offs medzi týmito procesmi. Naše prvotné dáta ukázali, že tieto hormóny inhibujú ukladanie tukov a pôsobia tak podobne ako pohlavné hormóny človeka. Konzistentne s touto hypotézou sme zistili, že ekdysteroidný analóg znižuje ukladanie tukov a chráni i pred obezitou vyvolanou stravou s vysokým obsahom cukrov. Tento pozitívny efekt študovaného ekdyzónového analógu neviedol k žiadnym badateľným negatívnym efektom na fyziológiu či dĺžku života. Detailná genetická analýza založená na manipulácii rôznych členov ekdysteroidnej dráhy však ukázala, že krátkodobé zníženie tejto signalizácie vedie k zníženému príjmu potravy a následne nižšiemu ukladaniu tukov. V súčasnosti skúmame tento paradox a ďalej analyzujeme dôsledky zníženej produkcie ekdysteroidov, zníženého importu týchto hormónov do cieľových buniek a menšej dostupnosti ich jadrového receptora. Zatiaľ sa zdá, že ekdysteroidná dráha môže regulovať metabolizmus rôzne, a to v závislosti od okolností a faktorov ako vek, čas genetickej manipulácie, kvalita potravy a teplota prostredia.

Teplota prostredia je jedným z najdôležitejších abiotických faktorov ovplyvňujúcich metabolizmus a ukladanie tukov. Naše zatiaľ nepublikované dáta naznačujú, že ekdysteroidná dráha je regulovaná okrem iného aj teplotou prostredia a následne ovplyvňuje adaptáciu na teplotný stres. Počas štúdia úloh ekdysteroidov v termálnej biológii sme tiež študovali vplyv teploty na spontánny pohyb drozofíl. Táto práca viedla k niekoľkým všeobecným objavom z oblasti termálnej biológie. Popísali sme napríklad vplyv vývinovej teploty na správanie sa drozofíl pri zmenách teploty počas dospelosti. Keďže dospelé drozofily sú mimoriadne pohyblivé, ich citlivosť k vývinovým teplotným podmienkam môže byť dôležitým faktorom ovplyvňujúcim prežívanie a reprodukčnú zdatnosť v meniacom sa prostredí, napríklad i v dôsledku globálneho otepľovania. Detaily tejto štúdie sú popísané v našej nedávno publikovanej práci (KLEPSATEL a GÁLIKOVÁ, 2022, *J. Therm. Biol.*).

KLEPSATEL, Peter – GÁLIKOVÁ, Martina. Developmental temperature affects thermal dependence of locomotor activity in *Drosophila*. In *Journal of thermal biology*, 2022, vol.103, january, article no. 103153, 9 pp. ISSN 0306-4565. Dostupné na: <https://doi.org/10.1016/j.jtherbio.2021.103153> Typ: ADCA

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

5. Koncepcia dlhodobého rozvoja organizácie

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

Odporúčania panelu pre ÚZ SAV boli dosť všeobecné ale samozrejme vedenie ústavu sa riadi aj podľa týchto pokynov. Podrobnejšie sú naše opatrenia opísané v akčnom pláne. Podľa komisie sme boli zaradení do kategórie B, čo je v poriadku, ale je ťažké súhlasiť s vysvetlením: „The research is visible at the European level. The institute has made valuable contributions in the field in Europe“. Európa je zložená z mnohých krajín veľmi odlišnej úrovne, tak nie je vôbec jasné čo predstavuje Európsku úroveň. Navyše viacerí naši pracovníci strávili pomerne dlhú dobu na stážach a pobytoch mimo Európy (napr. v USA, Japonsku a Kórei), kde dosiahli pozoruhodné výsledky a mnohé naše vedecké práce citujú aj vedci z USA, Kanady, Japonska, Kórei a Číny. Preto by bolo vhodnejšie hodnotiť ústavu pri budúcej akreditácii len písmenami (A-D), prípadne slovne (excellent, good, average ...etc) a vynechať „Európsku“ alebo „svetovú“ úroveň.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

1. Zvyšovanie kvality výstupov výskumu

Základnou povinnosťou každého vedeckého pracoviska je zvyšovať kvalitu výstupov výskumu po odbornej aj technickej stránke. O to sa dlhodobo snažíme a výsledkom tejto politiky je stále sa zvyšujúca vedecká produktivita vyjadrená kvalitnými publikáciami v monografiách a medzinárodných vedeckých časopisoch s pomerne vysokým impakt faktorom. Pre stimuláciu vedeckých pracovníkov sme vypracovali a v súčasnosti zdokonalili model zohľadňujúci impakt faktor a kvartil vedeckých časopisov, na základe ktorého sú pracovníci odmeňovaní. Veľká snaha vedenia ÚZ SAV o vytvorenie čo najlepších pracovných podmienok umožnila prijať v priebehu posledných rokov veľmi schopných a produktívnych vedeckých pracovníkov, ktorí založili svoje laboratória kde rozvíjajú aktuálne a progresívne témy. V pôvodnom akčnom pláne sme podrobne opísali aj neduhy týkajúce sa podpory vedeckého výskumu na Slovensku s nádejou, že sa ich postupne podarí odstrániť. Žiaľ treba skonštatovať, že zaostávanie Slovenskej vedy za vyspelými krajinami v Európe a vo svete sa prehĺbuje a prakticky všetky neduhy opísané v roku 2017 doteraz pretrvávajú.

2. Zvyšovanie kvality doktorandského štúdia

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

3. Kariérny rast postdoktorandov a výskumníkov

Dlhodobá progresívna politika a dobré pracovné podmienky umožnili prijať na ÚZ SAV niekoľko veľmi schopných a produktívnych mladých vedeckých pracovníkov po dlhodobých pobytoch na univerzitách a vedeckých inštitúciách v EÚ a USA. Na ÚZ SAV sa rieši grant podaný do Horizont 2020, za ktorý získala naša pracovníčka, Martina Gáliková PhD, „Seal of excellence“. Vedenie ústavu priebežne jedná s ďalšími mimoriadne schopnými mladými vedeckými pracovníkmi v zahraničí o možnostiach zamestnať sa na ÚZ SAV s cieľom vytvoriť si svoje vlastné laboratória a pracovné skupiny. Súčasná mzdová reforma však negatívne ovplyvňuje personálnu politiku ústavu a potláča snahu o vytváranie pracovných miest pre takých vysoko produktívnych pracovníkov, ktorí vyžadujú pomerne vysoké osobné ohodnotenie.

4. Zvyšovanie úspešnosti SAV v programoch ERA osobitne Horizont 2020

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

5. Projekty VEGA a APVV

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

6. Manažment ústavu

ÚZ SAV je zložený zo štyroch sekcií, ktoré sa zaoberajú rôznymi aspektami štúdia ekológie, fyziológie, parazitológie, biochémie, genetiky a molekulárnej biológie na rôznych druhoch bezstavovcov a stavovcov. Tento model sa osvedčil a nie je potrebné ho meniť.

7. Nakladanie s duševným vlastníctvom

Patent podaný v roku 2016 pod číslom PCT/SG2016/050278 s názvom „Novel thrombin inhibitors“ bol zaregistrovaný v roku 2021 aj pre krajiny Japonsko, Rusko a 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 VR uskutočňuje pravidelný audit využitia nových prístrojov a priebežne odstraňuje zistené nedostatky. Niektoré prístroje pravidelne používajú aj kolegovia z iných ústavov SAV alebo univerzít. Na našej www stránke sme zverejnili informácie o možnom použití významných prístrojov pre vonkajších záujemcov zo SAV aj ostatných vedeckých pracovníkov.

5.3. Aktualizácia Akčného plánu organizácie v roku 2021

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Oblasť spolupráce: prednášky, výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Slovenská technická univerzita v Bratislave

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Biomedicínske centrum SAV

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

Názov organizácie: Centrum biológie rastlín a biodiverzity SAV

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

Názov organizácie: Parazitologický ústav SAV

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

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

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

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
RNDr. Alžbeta Darolová, CSc.	Koordinačná rada pre monitoring vtákov pri Štátnej ochrane prírody	člen Koordinačnej rady
Ing. Zbyšek Šustek, CSc.	Poradný zbor Vrchnej riaditeľky emisného odboru NBS pre stanovovanie námetov pamätných mincí	člen

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
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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. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	2	tlač	11	TV	5
rozhlas	7	internet	5	exkurzie	4
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	1				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

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

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Spolu			

9.5. Členstvo v redakčných radách časopisov

RNDr. Alžbeta Darolová, CSc.

Tichodroma (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Ticks and Tick Borne Diseases (funkcia: section editor)

RNDr. Stanislav Kalúz, CSc.

Entomofauna Carpathica (funkcia: člen)

Folia Faunistica Slovaca (funkcia: člen)

RNDr. Mária Kazimírová, CSc.

Biologia (funkcia: managing editor)

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)

RNDr. Dušan Žitňan, DrSc.

General and Comparative Endocrinology (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Alžbeta Darolová, CSc.

Slovenská ornitologická spoločnosť/Birdlife (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

MVDr. Yuliya Didyk, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Michal Chvostáč, PhD.

Slovenská parazitologická spoločnosť (funkcia: člen)

RNDr. Stanislav Kalúz, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Mária Kazimírová, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Igor Kokavec, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján 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: člen výboru)

Mgr. Diana Selyemová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Michal Stanko, DrSc.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen výboru)

Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Takáč, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Ľubomír Vidlička, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Dušan Žitňan, DrSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		14310
z toho	knihy a zviazané periodiká	13957
	audiovizuálne dokumenty	6
	elektronické dokumenty (vrátane digitálnych)	44
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	1901
	Rukopisy, vzácne tlače	0
Počet titulov dochádzajúcich periodík		23
z toho zahraničné periodiká		21
Ročný prírastok knižničných jednotiek		46
v tom	kúpou	0
	darom	46
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		13957

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

Výraz „**z toho**“ označuje neúplné (výberové) údaje, ktorých súčet sa nemusí rovnať údaju v riadku „spolu“.

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu (riadok 1)		0
v tom z r. 1	prezenčné výpožičky	0
	absenčné výpožičky	0
v tom z r. 1	odborná literatúra pre dospelých	0
	výpožičky periodík	0
MVS iným knižniciam		0
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		0
Počet vypracovaných bibliografií		3
Počet vypracovaných rešerší		0

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	43
Návštevníci knižnice spolu (bez návštevníkov podujatí)	3

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

Ing. Ladislav Roller, PhD.

- Komisia SAV pre zahraničné styky (člen)

Mgr. Peter Vršanský, PhD.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen komisie)

RNDr. Dušan Žitňan, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.4. Členstvo v orgánoch VEGA

doc. Ing. Ladislav Hamerlík, PhD.

- Komisia č. 4 pre biologické vedy (člen)

prof. PaedDr. Pavol Prokop, DrSc.

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

Ing. Ladislav Roller, PhD.

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

doc. RNDr. Ľubomír Vidlička, CSc.

- Komisia č. 4 pre biologické vedy (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2021 v €)

Typ organizácie (PO)		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	1443393	129356	205376	18661	
z toho: mzdy (610)	765684	714645	49697	1342	
vedecká výchova štipendiá (640)	75277	75277			
poistné a príspevok do poisťovní (620)	270443	249620	16538	4285	
tovary a služby (630)	275174	167864	96260	11050	
transfery partnerom projektov (640)	42881		42881		
2. Kapitálové výdavky					
z toho: obstarávanie kapitálových aktív					
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2021 v €)

Typ organizácie (RO,PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnero m projektov
1. kapitola SAV (111)	1220147		714645	249620	
z toho: VEGA	76988				
MVTS výskumné projekty	24000				
MVTS podpora	2870				
SASPRO/MOREPRO	28194				
Vydávanie časopisov	7050				
Vedecká výchova (štipendiá)	75277				
OTAS (630)	28762				
2. ŠF EÚ vr. fin. zo ŠR	25468		11880	4868	
3. medzinárodné grantové projekty					
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	191188				
z toho: APVV	191188		44297	14651	42881
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	14058	2500	1342	4285	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb					

13. Nadácie a fondy pri organizácii SAV

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

14.1. Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	10	6	4	4	3	1
2. Projekty APVV	4	2	2	2	1	1
3. Projekty EŠIF	0	0	0	0	0	0
4. Projekty SASPRO, MoRePro	1	0	1	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	2	0	0	0

Tabuľka 14b Rodová skladba hlavných riešiteľov medzinárodných projektov

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

14.3. Výskum zameraný na rodovú problematiku

Uved'te stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe C.

15. Iné významné činnosti organizácie SAV

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2021

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Derdáková Markéta

Cena SAV v kategórii vysoké počty citácií za rok 2020 druhého oddelenia SAV

Oceňovateľ: SAV

Opis: Ocenená publikácia: MEDLOCK, Jolyon - HANSFORD, Kayleigh M - BORMANE, A. - DERDÁKOVÁ, Markéta - ESTRADA-PEÑA, Agustín - GEORGE, Jean-Claude - GOLOVLJOVA, I. - JAENSON, Thomas G.T. - JENSEN, Jens-Kjeld - JENSEN, Per M. - KAZIMÍROVÁ, Mária - OTEO, José A. - PAPA, A. - PFISTER, Kurt - PLANTARD, Olivier - RANDOLPH, S.E. - RIZZOLI, Annapaola - SANTOS-SILVA, Maria Margarida - SPRONG, H. - VIAL, Laurence - HENDRICKX, Guy - ZELLER, H. - VAN BORTEL, Wim. Driving forces for changes in geographical distribution of Ixodes ricinus ticks in Europe. In Parasites & Vectors, 2013, vol. 6, iss. 1, art. no. 1, 11 pp.

Kazimírová Mária

Špičková publikácia SAV - Publikácie s mimoriadnym počtom citácií

Oceňovateľ: Predsedníctvo SAV

Opis: Ocenená publikácia: MEDLOCK, Jolyon - HANSFORD, Kayleigh M - BORMANE, A. - DERDÁKOVÁ, Markéta - ESTRADA-PEÑA, Agustín - GEORGE, Jean-Claude - GOLOVLJOVA, I. - JAENSON, Thomas G.T. - JENSEN, Jens-Kjeld - JENSEN, Per M. - KAZIMÍROVÁ, Mária - OTEO, José A. - PAPA, A. - PFISTER, Kurt - PLANTARD, Olivier - RANDOLPH, S.E. - RIZZOLI, Annapaola - SANTOS-SILVA, Maria Margarida - SPRONG, H. - VIAL, Laurence - HENDRICKX, Guy - ZELLER, H. - VAN BORTEL, Wim. Driving forces for changes in geographical distribution of Ixodes ricinus ticks in Europe. In Parasites & Vectors, 2013, vol. 6, iss. 1, art. no. 1, 11 pp.

16.1.2. Iné domáce ocenenia

16.2. Medzinárodné ocenenia

Roller Ladislav

Cena za encyklopedickú publikáciu za rok 2020

Oceňovateľ: nakladateľstvi Academia Praha

Opis: za publikáciu Blanokřídli České a Slovenské republiky II. Širokopasí vydanou Nkladatelstvím Academia, Praha (ČR)

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

18. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval:

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

Schválila vedecká rada organizácie SAV dňa 27.1.2022

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
RNDr. Dušan Žitňan, DrSc.

.....
Ing. Ladislav Roller, PhD.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2021****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. 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.	MVDr. Markéta Derdáková, PhD.	50	0.50
3.	Mgr. Martina Gáliková, PhD.	100	1.00
4.	doc. Ing. Ladislav Hamerlík, PhD.	20	0.20
5.	RNDr. Stanislav Kalúz, CSc.	20	0.20
6.	RNDr. Mária Kazimírová, CSc.	100	1.00
7.	Mgr. Peter Klepsatel, PhD	100	1.00
8.	RNDr. Juraj Kočí, PhD.	100	1.00
9.	Mgr. Jana Kráľovičová, PhD.	50	0.50
10.	RNDr. Ján Krištofík, CSc.	50	0.50
11.	RNDr. Peter Mašán, PhD.	100	1.00
12.	Mgr. Veronika Michalková, Ph.D.	100	1.00
13.	Ing. Ladislav Roller, PhD.	100	1.00
14.	Mgr. Veronika Rusňáková Taragel'ová, PhD.	100	0.91
15.	RNDr. Mirko Slovák, CSc.	100	1.00
16.	Ing. Zbyšek Šustek, CSc.	50	0.50
17.	RNDr. Peter Takáč, CSc.	50	0.50
18.	Mgr. Radovan Václav, PhD.	100	1.00
19.	doc. RNDr. Ľubomír Vidlička, CSc.	100	1.00
20.	Mgr. Peter Vršanský, PhD.	40	0.40
Vedeckí pracovníci			
1.	Mgr. Ivana Daubnerová, PhD.	100	1.00
2.	MVDr. Yuliya Didyk, PhD.	100	1.00

3.	Mgr. Michal Chvostáč, PhD.	100	1.00
4.	Mgr. Igor Kokavec, PhD.	100	1.00
5.	Mgr. Pavol Littera, PhD.	50	0.50
6.	Mgr. Barbara Mangová, PhD.	100	1.00
7.	RNDr. Tomáš Navara, PhD.	100	1.00
8.	Ing. Tomáš Olšovský, PhD.	50	0.50
9.	Mgr. Emanuel Procházka, PhD.	100	1.00
10.	Mgr. Diana Selyemová, PhD.	100	1.00
11.	Mgr. Marek Semelbauer, PhD.	100	1.00
12.	Mgr. Mário Šereš, PhD.	25	0.25
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Zuzana Čužiová	50	0.40
2.	Mgr. Ján Kočišek	100	0.55
3.	Ing. Veronika Machová	100	1.00
4.	Mgr. Matej Medla	100	0.50
5.	Mgr. Lucia Pavlíková, PhD.	25	0.25
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Martin Česánek	100	1.00
2.	Mgr. Dagmar Práznovská	100	1.00
3.	Ing. Danko Sitarčíková	130	1.20
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	150	1.50
2.	Lýdia Drinková	100	1.00
3.	Bc. Diana Knoblochová	100	0.50
4.	Daniel Kosa	100	1.00
5.	Jana Kušnírová	100	1.00
6.	Eva Vráblová	100	1.00
Ostatní pracovníci			
1.	Bc. Elena Bitterová	100	0.20
2.	Pavol Haris	100	0.50
3.	Zuzana Pelikánová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Odborní pracovníci ÚSV			
1.	Peter Hoštacký	5.5.2021	9.99
Ostatní pracovníci			
1.	Karol Bucsek	30.4.2021	0.33
2.	Bc. Andrea Žitňanová	31.8.2021	0.50

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Jan Hinkelman	Přírodovědecká fakulta UK	4.2.5 zoológia
2.	Mgr. Dominika Hromníková	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
3.	Mgr. Vanda Klöcklerová	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
4.	Mgr. Matej Medla	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
5.	Mgr. Peter Pecina	Přírodovědecká fakulta UK	4.2.5 zoológia
6.	Mgr. Ján Samay	Univerzita Komenského v Bratislave	4.2.5 zoológia
7.	Mgr. Hemen Sendi	Přírodovědecká fakulta UK	4.2.5 zoológia
8.	Mgr. Alžbeta Vašková	Přírodovědecká fakulta UK	4.2.5 zoológia
Interní doktorandi hrazení z iných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z iných zdrojov</i>			
Externí doktorandi			
1.	MVDr. Lucia Anettová	Přírodovědecká fakulta UK	4.2.5 zoológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
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Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi
--	----------------

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: UNESCO

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

Zodpovedný riešiteľ:	Peter Vršanský
Zodpovedný riešiteľ v organizácii SAV:	Peter Vršanský
Trvanie projektu:	1.1.1998 /
Evidenčné číslo projektu:	NA
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Ústav vied o Zemi SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Unesco: 15000 € Podpora medzinárodnej spolupráce z národných zdrojov: 2870 €

Dosiahnuté výsledky:

Programy: Iné

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

Zodpovedný riešiteľ:	Martina Gáliková
Trvanie projektu:	20.5.2019 / 19.5.2022
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	- Podpora medzinárodnej spolupráce z národných zdrojov: 24000 €

Dosiahnuté výsledky:

Vínna muška drozofila obyčajná (*Drosophila melanogaster*) je populárnym bezstavovčím modelom v rôznych oblastiach biológie, vrátane modelovania ľudských ochorení. V našom výskume používame drozofilu pre štúdium energetickej homeostázy, predovšetkým regulácií tukového metabolizmu. Cieľom tohto projektu je objasnenie prepojenia medzi rozmnožovaním a tukovým metabolizmom. Sústreďime sa najmä na steroidné hormóny ekdysteroidy, ktoré sa dajú považovať za kandidátne faktory sprostredkujúce trade-offs medzi týmito procesmi. Naše prvotné dáta ukázali, že tieto hormóny inhibujú ukladanie tukov a pôsobia tak podobne ako pohlavné hormóny človeka. Konzistentne s touto hypotézou sme zistili, že ekdysteroidný analóg znižuje ukladanie tukov a

chráni i pred obezitou vyvolanou stravou s vysokým obsahom cukrov. Tento pozitívny efekt študovaného ekdyzónového analógu nevedol k žiadnym badateľným negatívnym efektom na fyziológiu či dĺžku života. Detailná genetická analýza založená na manipulácii rôznych členov ekdysteroidnej dráhy však ukázala, že krátkodobé zníženie tejto signalizácie vedie k zníženému príjmu potravy a následne nižšiemu ukladaniu tukov. Keďže ekdysteroidná signalizácia je nevyhnutná pre vyvinutie, jej metabolické úlohy sme skúmali až v dospelosti využítim časovo-spesifických transgenických manipulácií založených na GeneSwitch systéme. Analyzovali sme účinky poklesu ekdyzónovej produkcie (RNAi ku génu *phantom*), zníženého importu do buniek (RNAi k ekdyzónovému importéru) a zníženej dostupnosti jadrového receptora (RNAi ku génom *EcR* a *Usp* kódujúcim heterodimerický jadrový receptor pre ekdysteroidy). Tieto manipulácie prekvapivo viedli k nižšej akumulácii telesných tukov. V súčasnosti skúmame tento paradox a ďalej analyzujeme dôsledky zníženej produkcie ekdysteroidov, zníženého importu týchto hormónov do cieľových buniek a menšej dostupnosti ich jadrového receptora. Zatiaľ sa zdá, že ekdysteroidná dráha môže regulovať metabolizmus rôzne, a to v závislosti od okolností a faktorov ako vek, čas genetickej manipulácie, kvalita potravy a teplota prostredia.

Teplota prostredia je jedným z najdôležitejších abiotických faktorov ovplyvňujúcich metabolizmus a ukladanie tukov. Naše zatiaľ nepublikované dáta naznačujú, že ekdysteroidná dráha je regulovaná okrem iného aj teplotou prostredia a následne ovplyvňuje adaptáciu na teplotný stres. Počas štúdia úloh ekdysteroidov v termálnej biológii sme tiež študovali vplyv teploty na spontánny pohyb drozofil. Táto práca viedla k niekoľkým všeobecným objavom z oblasti termálnej biológie. Popísali sme napríklad vplyv vývinovej teploty na správanie sa drozofil pri zmenách teploty počas dospelosti. Keďže dospelé drozofily sú mimoriadne pohyblivé, ich citlivosť k vývinovým teplotným podmienkam môže byť dôležitým faktorom ovplyvňujúcim prežívanie a reprodukčnú zdatnosť v meniacom sa prostredí, napríklad i v dôsledku globálneho otepľovania. Detaily tejto štúdie sú popísané v našej nedávno publikovanej práci (Klepsatel a Gáliková, 2022, J. Therm. Biol).

KLEPSATEL, Peter – GÁLIKOVÁ, Martina. Developmental temperature affects thermal dependence of locomotor activity in *Drosophila*. In Journal of thermal biology, 2022, vol.103, january, article no. 103153, 9 pp. ISSN 0306-4565. Dostupné na: <https://doi.org/10.1016/j.jtherbio.2021.103153> Typ: ADCA

3.) Štúdia vplyvu optimalizácie vodného režimu vybraných ramien inundačného územia Dunaja na faunu vodných bezstavovcov a posúdenie účinku revitalizačných scenárov na kvalitu biotopov pre bezstavovce (*Restoration and management of Danube floodplain habitats*)

Zodpovedný riešiteľ:	Igor Kokavec
Trvanie projektu:	1.1.2017 / 31.12.2021
Evidenčné číslo projektu:	LIFE14 NAT/SK001306
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Bratislavské regionálne ochranárske združenie
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	-

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

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

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0065/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4323 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 1/0404/19
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3045 €

Dosiahnuté výsledky:

3.) 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: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7387 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Igor Kokavec
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 1/0127/20
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2166 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Igor Kokavec
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0063/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4660 €

Dosiahnuté výsledky:

6.) Oribatocenózy urbánneho prostredia (*Oribatid mite communities of urban ecosystems*)

Zodpovedný riešiteľ: Barbara Mangová
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0111/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2981 €

Dosiahnuté výsledky:

7.) Systematika, ekologické nároky a rozšírenie foretických roztočov (*Acari, Mesostigmata*) podkôrneho a drevokazného hmyzu v podmienkach Európy. (*Systematics, ecological requirements and chorology of saproxylic mites (Acari: Mesostigmata) phoretically associated with woodboring insects in Europe.*)

Zodpovedný riešiteľ: Peter Mašán
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0036/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5984 €

Dosiahnuté výsledky:

Saproxilické roztoče žijú v rôznych drevných substrátoch živých a odumretých stromov (napr. v rozkladajúcej sa drevnej hmote, podkôrnom detrite, žerových chodbičkách xylofágneho hmyzu s ambrózióvymi hubami, drevnej hnilobe, na plodniciach drevokazných húb, ai.). Na základe zberov zo Slovenska a zbierok rôznych inštitúcií v Európe, Ázii a Severnej Ameriky, boli vypracované výstupy, ktoré analyzujú tieto roztoče z hľadiska ich morfológie, taxonómie, chorológie a ekológie. Obsahujú deskripcie a diagnózy platných taxónov, revízie sporných druhov a nové determinčné kľúče pre európsku faunu, ktoré sú ilustrované originálnymi obrázkami a mikrofotografiami. Najvýznamnejším prínosom sú objavy nových druhov pre vedu, menovite *Pachyseius subhumeralis* Mašán, 2018, *Cosmolaelaps ekaterinae* Mašán et Babaeian, 2019, *Holostaspis ambigua* Babaeian, Mašán et Halliday, 2019, *Dendroseius reductus* Mašán, 2020 a *Mycomelichares polypori* Mašán et Joharchi, 2021.

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

Zodpovedný riešiteľ: Emanuel Procházka
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0151/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5624 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Veronika Rusňáková 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 6684 €

Dosiahnuté výsledky:

10.) Hodnotenie zraniteľnosti vybraných prírodných a narušených ekosystémov voči hydrometeorologickým extrémom (*Vulnerability assessment of selected natural and disturbed ecosystems by hydrometeorological extremes*)

Zodpovedný riešiteľ: Zbyšek Šustek
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 1/0370/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Technická univerzita vo Zvolene
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1071 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Radovan Václav
Trvanie projektu: 1.1.2020 / 31.12.2024
Evidenčné číslo projektu: 2/0023/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Španielsko: 1
Čerpané financie: VEGA: 5703 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Ľubomír Vidlička
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0074/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7667 €

Dosiahnuté výsledky:

13.) Šváby zo svetových jantárov II

Zodpovedný riešiteľ: Peter Vršanský
Zodpovedný riešiteľ v organizácii SAV: Peter Vršanský
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0042/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav vied o Zemi SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2715 €

Dosiahnuté výsledky:

14.) Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov. (*Expression and functional characterization of receptors for neuropeptides of insects and ticks*)

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0080/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 16978 €

Dosiahnuté výsledky:

Programy: APVV

15.) Ekológia hostiteľskej špecificity vektormi prenášaných parazitov (*Ecology of host specificity in vector-borne parasites*)

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0463
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 34311 €

Dosiahnuté výsledky:

16.) 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:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 45635 €

Dosiahnuté výsledky:

17.) O ovciach, kozách a víruse kliešťovej encefalitídy (*Of Sheep, Goats and Tick-borne Encephalitis virus*)

Zodpovedný riešiteľ: Martina Ličková
Zodpovedný riešiteľ v organizácii SAV: Markéta Derdáková
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0518
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 7000 €

Dosiahnuté výsledky:

18.) Úloha neuropeptidov a ich receptorov pri regulácii aktivity endokrinných a reprodukčných orgánov priadky morušovej (*Bombyx mori*) (*The role of neuropeptides and their receptors in regulation of endocrine and reproductive organs in the silkworm (*Bombyx mori*)*)

Zodpovedný riešiteľ: Ladislav Roller
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV –16-0395
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 26162 €

Dosiahnuté výsledky:

19.) 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: 20762 €

Dosiahnuté výsledky:

20.) 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
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 57318 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Bratislavský kraj

21.) 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: 25468 €

Dosiahnuté výsledky:

Programy: Iné projekty

22.) Monitoring vtákov v oblasti plánovaného veterného parku pri Popudinských Močidl'anoch

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.9.2020 / 30.9.2021
Evidenčné číslo projektu: 14/2020
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

23.) Monitoring vtákov v oblasti plánovaného veterného parku pri Rohove

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.9.2020 / 30.9.2021
Evidenčné číslo projektu: 13/2020
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

Programy: MoRePro

24.) 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 áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: -
Slovenská akadémia vied, program MoRePro: 28194 €

Dosiahnuté výsledky:

Vínna muška drozofila obyčajná (*Drosophila melanogaster*) je populárnym bezstavovčím modelom

v rôznych oblastiach biológie, vrátane modelovania ľudských ochorení. V našom výskume používame drozofilu pre štúdium energetickej homeostázy, predovšetkým regulácií tukového metabolizmu. Cieľom tohto projektu je objasnenie prepojenia medzi rozmnožovaním a tukovým metabolizmom. Sústreďíme sa najmä na steroidné hormóny ekdysteroidy, ktoré sa dajú považovať za kandidátne faktory sprostredkujúce trade-offs medzi týmito procesmi. Naše prvotné dáta ukázali, že tieto hormóny inhibujú ukladanie tukov a pôsobia tak podobne ako pohlavné hormóny človeka. Konzistentne s touto hypotézou sme zistili, že ekdysteroidný analóg znižuje ukladanie tukov a chráni i pred obezitou vyvolanou stravou s vysokým obsahom cukrov. Tento pozitívny efekt študovaného ekdyzónového analógu neviedol k žiadnym badateľným negatívnym efektom na fyziológiu či dĺžku života. Detailná genetická analýza založená na manipulácii rôznych členov ekdysteroidnej dráhy však ukázala, že krátkodobé zníženie tejto signalizácie vedie k zníženému príjmu potravy a následne nižšiemu ukladaniu tukov. Keďže ekdysteroidná signalizácia je nevyhnutná pre vyvinutie, jej metabolické úlohy sme skúmali až v dospelosti využítim časovo-spesifických transgenických manipulácií založených na GeneSwitch systéme. Analyzovali sme účinky poklesu ekdyzónovej produkcie (RNAi ku génu phantom), zníženého importu do buniek (RNAi k ekdyzónovému importéru) a zníženej dostupnosti jadrového receptora (RNAi ku génom EcR a Usp kódujúcim heterodimerický jadrový receptor pre ekdysteroidy). Tieto manipulácie prekvapivo viedli k nižšej akumulácii telesných tukov. V súčasnosti skúmame tento paradox a ďalej analyzujeme dôsledky zníženej produkcie ekdysteroidov, zníženého importu týchto hormónov do cieľových buniek a menšej dostupnosti ich jadrového receptora. Zatiaľ sa zdá, že ekdysteroidná dráha môže regulovať metabolizmus rôzne, a to v závislosti od okolností a faktorov ako vek, čas genetickej manipulácie, kvalita potravy a teplota prostredia.

Teplota prostredia je jedným z najdôležitejších abiotických faktorov ovplyvňujúcich metabolizmus a ukladanie tukov. Naše zatiaľ nepublikované dáta naznačujú, že ekdysteroidná dráha je regulovaná okrem iného aj teplotou prostredia a následne ovplyvňuje adaptáciu na teplotný stres. Počas štúdia úloh ekdysteroidov v termálnej biológii sme tiež študovali vplyv teploty na spontánny pohyb drozofil. Táto práca viedla k niekoľkým všeobecným objavom z oblasti termálnej biológie. Popísali sme napríklad vplyv vývinovej teploty na správanie sa drozofil pri zmenách teploty počas dospelosti. Keďže dospelé drozofily sú mimoriadne pohyblivé, ich citlivosť k vývinovým teplotným podmienkam môže byť dôležitým faktorom ovplyvňujúcim prežívanie a reprodukčnú zdatnosť v meniacom sa prostredí, napríklad i v dôsledku globálneho otepľovania. Detaily tejto štúdie sú popísané v našej nedávno publikovanej práci (Klepsatel a Gáliková, 2022, J. Therm. Biol).

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Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

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- ADCA29 ŠPITÁLSKA, Eva** - BOLDIŠOVÁ, Eva - ŠTEFANIDESOVÁ, Katarína - KOCIANOVÁ, Elena - MAJERČIKOVÁ, Zuzana - RUSŇÁKOVÁ - TARAGELOVÁ, Veronika - SELYEMOVÁ, Diana - CHVOSTÁČ, Michal - DERDÁKOVÁ, Markéta - ŠKULTÉTY, Ľudovít. Pathogenic microorganisms in ticks removed from Slovakian residents over the years 2008-2018. In *Ticks and Tick-Borne Diseases*, 2021, vol. 12, no. 2, art. no. 101626, 11 pp. (2020: 3.744 - IF, Q2 - JCR, 1.232 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1877-959X. Dostupné na: <https://doi.org/10.1016/j.ttbdis.2020.101626> (VEGA 2/0119/17 : Detailná identifikácia a charakterizácia *Borrelia burgdorferi* sensu lato a *Borrelia miyamotoi* pomocou multilokusovej sekvenčnej typizácie (MLST).. VEGA 2/0021/21 : Diverzita vektormi prenášaných patogénnych a nepatogénnych mikroorganizmov a potenciálna terapia nimi spôsobených zoonotických ochorení. APVV-16-0463 : Ekológia hostiteľskej špecifickosti vektormi prenášaných parazitov. APVV-19-0066 : Výskum hostiteľsko-parazitických, bunkovo-Rickettsiových vzťahov, monitorovaných pomocou transcriptomických a proteomických štúdií)
- ADCA30 ŠUJANOVÁ, Alžbeta - ŠPITÁLSKA, Eva - RADOVAN, Václav**. Seasonal Dynamics and Diversity of Haemosporidians in a Natural Woodland Bird Community in Slovakia. In *Diversity-Basel*, 2021, vol. 13, no. 9, art. no. 439. (2020: 2.465 - IF, Q2 - JCR, 0.697 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1424-2818. Dostupné na: <https://doi.org/10.3390/d13090439>
- ADCA31 THIEBAUT, Gaëtan - MÉOT, Alain - WITT, Arnaud - PROKOP, Pavol - BONIN, Patrick**. "Touch Me If You Can!": Individual Differences in Disease Avoidance and Social Touch. In *Evolutionary Psychology*, 2021, vol. 19, iss. 4, p. 1-14. (2020: 1.506 - IF, Q4 - JCR, 0.889 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1474-7049. Dostupné na: <https://doi.org/10.1177/14747049211056159>
- ADCA32 VALADARES TOSE, Lilian - WEISBROD, Chad R. - MICHÁLKOVÁ, Veronika -

- NOUZOVÁ, Marcela - WEISBROD, Chad R. - FERNANDEZ-LIMA, Francisco. Following de novo triglyceride dynamics in ovaries of *Aedes aegypti* during the previtellogenic stage. In *Scientific Reports*, 2021, vol. 11, no. 1, article number 9636, 9 pp. (2020: 4.380 - IF, Q1 - JCR, 1.240 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-021-89025-6>
- ADCA33 VALERA, Francisco** - VÁCLAV, Radovan. Residency patterns and apparent survival in a cavity-nesting bird: population consequences of nest-box supplementation revealed by a long-term study. In *Avian Conservation and Ecology*, 2021, vol. 16, no. 2, art. no. 8, 13 pp. (2020: 1.763 - IF, Q2 - JCR, 1.009 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1712-6568. Dostupné na: <https://doi.org/10.5751/ACE-01928-160208> (VEGA 2/0008/16 : Dôležitosť heterogenity reprodukčného biotopu pre reprodukčné investície a prežívanie)
- ADCA34 VRŠANSKÝ, Peter** - VRŠANSKÁ, Lucia - VASILENKO, D. V. - PUŠKELOVÁ, Ľubica - BIRON, Adrián. An isolated Cretaceous analogue of Madagascar on the Adria-Turkey microcontinent indicated by fossils in Brezina, Algeria. In *Palaeontographica : Abteilung A - Paläozoologie Stratigraphie*, 2021, vol. 321, no. 1-6, p. 19-35. (2020: 2.176 - IF, Q1 - JCR, 0.509 - SJR, Q2 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0375-0442. Dostupné na: <https://doi.org/10.1127/pala/2021/0107>
- ADCA35 WALTER, Kathryn, V.** - CONROY-BEAM, Daniel - BUS, David M - PROKOP, Pavol - YOO, Gyesook - ZAŤKOVÁ, Marta - ZUPANČIČ, Maja. Sex differences in human mate preferences vary across sex ratios. In *Proceedings of the Royal Society: B : Biological Sciences*, 2021, vol. 288, no.1955, art. no. 20211115, 10 pp. (2020: 5.349 - IF, Q1 - JCR, 2.342 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0962-8452. Dostupné na: <https://doi.org/10.6084/m9.figshare.c.5520224>
- ADCA36 YANG, Xiuli* - KOČI, Juraj* - SMITH, Alexis A.* - ZHUANG, Xuran - SHARMA, Kavita - DUTTA, Shraboni - RANA, Vipin S. - KITSOU, Chrysoula - YAS, Ozlem B. - MONGODIN, Emmanuel F. - PAL, Utpal**. A novel tick protein supports integrity of gut peritrophic matrix impacting existence of gut microbiome and Lyme disease pathogens. In *Cellular microbiology*, 2021, vol. 23, no. 2, art. no. 13275. (2020: 3.715 - IF, Q2 - JCR, 1.542 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 1462-5814. Dostupné na: <https://doi.org/10.1111/cmi.13275>
- ADCA37 ZHANG, Chen - DAUBNEROVÁ, Ivana* - JANG, Yong-Hoon - KONDO, Shu - ŽITŇAN, Dušan - KIM, Young-Joon**. The neuropeptide allatostatin C from clock-associated DN1p neurons generates the circadian rhythm for oogenesis. In *Proceedings of the National Academy of Sciences of the United States of America*, 2021, vol. 118, iss. 4, article number: e2016878118. (2020: 11.205 - IF, Q1 - JCR, 5.011 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0027-8424. Dostupné na: <https://doi.org/10.1073/pnas.2016878118> (VEGA-2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov)
- ADCA38 ZVARÍKOVÁ, Martina - PROKOP, Pavol** - ZVARÍK, Milan - JEŽOVÁ, Zuzana - MEDINA-JEREZ, William - FEDOR, Peter. What Makes Spiders Frightening and Disgusting to People? In *Frontiers in Ecology and Evolution*, 2021, vol. 9, art. no. 694569, 9 pp. (2020: 4.171 - IF, Q1 - JCR, 1.317 - SJR, Q1 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 2296-701X. Dostupné na: <https://doi.org/10.3389/fevo.2021.694569>

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

- ADDA01 KRNO, Il'ja** - ŽIAK, Matej - LÁNCZOS, Tomáš - BERACKO, Pavel - ŠPORKA, Ferdinand - THOMKOVÁ, Katarína. Stoneflies (Plecoptera) of the Western Carpathians does the geological bedrock influence their biodiversity? In *Biologia*, 2021, vol. 76, no., p. /11 pp. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00843-5> (VEGA 1/0119/16 : Vplyv krajiny a regulácií na spoločenstvá bentosu tečúcich vôd)
- ADDA02 PECINA, Peter - VIDLIČKA, Ľubomír - MAJTÁN, Juraj - PURKART, Adrián - PROKOP, Pavol**. Why do zombies clean themselves? An initial test of the antimicrobial hypothesis in a parasite-host relationship. In *Biologia*, 2021, vol. 76, p. 2303–2307. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00694-0>
- ADDA03 SEMELBAUER, Marek** - DVOŘÁKOVÁ, Kateřina - KOČIŠEK, Ján. Comparative morphology of female terminalia of *Calliopum* Strand, 1928, *Lauxania* Latreille, 1804 (Diptera, Lauxaniidae) and allies. In *Biologia*, 2021, vol. 76, no. 11, p. 3355–3369. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00825-7>
- ADDA04 VIDLIČKA, Ľubomír** - PECINA, Peter. Distribution and life history traits of *Ectobius vittiventris* (Blattaria: Ectobiidae) in Europe focused on the territory of Slovakia. In *Biologia*, 2021, vol. 76, no. 11, p. 3381–3397. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00836-4> (VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku)
- ADDA05 VRŠANSKÝ, Peter - SENDI, Hemen - HINKELMAN, Jan** - HAIN, Miroslav. Alienopterix Mlynský et al., 2018 complex in North Myanmar amber supports Umenocoleoidea/ae status. In *Biologia*, 2021, vol. 76, no. 8, p. 2207-2224. (2020: 1.350 - IF, Q4 - JCR, 0.282 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. Dostupné na: <https://doi.org/10.1007/s11756-021-00689-x> (VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku. VEGA 2/0042/18 : Šváby zo svetových jantárov II. APVV-0436-12 : Evolučné zákonitosti indikované článkonožcami a ich príbuznými // Evolúcia článkonožcov a ich príbuzných)

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 KRIŠTÍN, Anton** - VIDLIČKA, Ľubomír. Slovak orthopterological bibliography in 1999–2020 with ammendments from previous years. In *Articulata*, 2020, vol 35., no., s. 165-187. ISSN 0171-4091.

ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

- ADFB01 KOKAVEC, Igor** - NAVARA, Tomáš - HÁRONÍKOVÁ, Mária. Analýza doterajších poznatkov z výskumu malých vodných elektrární na Slovensku = Analysis of pevious knowledge from the research of small hydropower plants in Slovakia. In *Limnologický spravodajca*, 2021, roč. 15, č. 1-2, s. 20-29. ISSN 1337-2971.
- ADFB02 NAVARA, Tomáš** - CHVOJKA, Pavel - PEKAROVÁ, Stanislava - KOKAVEC,

- Igor*. Caddisflies of regulated and unregulated stretches of the lower Hron River (The Danube Basin, Slovakia). In Biodiversity & Environment, 2021, vol. 13, no. 1, p. 62-73. ISSN 1338-080X.
- ADFB03 SAMAY, Ján - VIDLIČKA, Ľubomír. Nález riasavca z rodu *Pseudoxenos* (Strepsiptera) na Slovensku po viac ako 80 rokoch = Finding of Strepsiptera from the genus *Pseudoxenos* in Slovakia after more than 80 years. In Entomofauna Carpathica, 2021, vol. 3, no. 1, p. 1-6. ISSN 1335-1214. (VEGA 2/0074/21 : Invázny švábik *Planuncus tingitanus* (Blattaria) na Slovensku - šírenie, ekológia a etológia.)
- ADFB04 VIDLIČKA, Ľubomír** - PURKART, Adrián - SAMAY, Ján. Nález mravcoleva *Acanthaclisis occitanica* (Villard, 1789) (Neuroptera, Myrmeleontidae) na Slovensku = Finding of antlion *Acanthaclisis occitanica* (Villard, 1789) (Neuroptera, Myrmeleontidae) in Slovakia. In Entomofauna Carpathica, 2021, vol. 33, no. 2, p. 99-102. ISSN 1335-1214. (VEGA 2/0074/21 : Invázny švábik *Planuncus tingitanus* (Blattaria) na Slovensku - šírenie, ekológia a etológia.)

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

- ADMA01 KOZYRA, Katarzyna** - ZAJĄC, Tomasz - ANSORGE, Hermann - WIERZBICKI, Heliodor - MOSKA, Magdalena - STANKO, Michal - STOPKA, Pavel. Late Pleistocene Expansion of Small Murid Rodents across the Palearctic in Relation to the Past Environmental Changes. In GENES-BASEL, 2021, vol. 12, no. 5, art. no. 642. (2020: 4.096 - IF, Q2 - JCR, 1.337 - SJR, Q2 - SJR). ISSN 2073-4425. Dostupné na: <https://doi.org/10.3390/genes12050642> (LQ1604 : National program for sustainability II. MICOBION No. 810224 : EU Horizont 2020. Vega č. 1/0084/18 : Genetická analýza vybraných nových a novo sa objavujúcich patogénov so zoonotickým potenciálom u zvierat a ľudí)
- ADMA02 MABILLE, Dorien** - CARDOSO SANTOS, Camila - HENDRICKX, Rik - CLAES, Mathieu - TAKÁČ, Peter - CLAYTON, Christine - HENDRICKX, Sarah - HULPIA, Fabian - MAES, Louis - VAN CALENBERGH, Serge - CALJON, Guy. 4E Interacting Protein as a Potential Novel Drug Target for Nucleoside Analogues in *Trypanosoma brucei*. In Microorganisms, 2021, vol. 9, iss. 4, 826, 16 pp. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms9040826> (APVV-15-0604 : Zníženie plodnosti a kontrola trypanozomiáz bodaviek tsetse aplikáciou metód sterility a molekulárnych metód. [Reduction of fecundity and trypanosomias control of tsetse flies by the application of sterile insect techniques and molecular methods.])
- ADMA03 NORTE, Ana Cláudia - BOYER, Pierre H - SANTIAGO, Castillo-Ramirez - CHVOSTÁČ, Michal - BRAHAMI, Mohand O - ROLLINS, Robert E - WOUTENBERG, Tom - DIDYK, Yuliya - DERDÁKOVÁ, Markéta - NUNCIO, M.S. - DE CARVALHO, Isabel Lopes - MARGOS, G.** - FINGERLE, V. The Population Structure of *Borrelia lusitaniae* Is Reflected by a Population Division of Its Ixodes Vector. In Microorganisms, 2021, vol. 9, no. 5, p. 933. (2020: 4.128 - IF, Q2 - JCR, 0.858 - SJR, Q2 - SJR). (2021 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms9050933> (APVV-16-0463 : Ekológia hostiteľskej špecifickosti vektormi prenášaných parazitov)
- ADMA04 ROSSI, Chiara - ZADRA, N. - FEVOLA, C. - ECKE, F. - HÖRNFELDT, Birger - KALLIES, R. - KAZIMÍROVÁ, Mária - MAGNUSSON, Magnus - OLSSON, G.E. - ULRICH, R.G. - JÄÄSKELÄINEN, A.J. - HENTTONEN, Heikki. Evolutionary relationships of Ijungan virus variants circulating in multi-host systems across europe. In Viruses, 2021, vol. 13, iss. 7, article number 1317. (2020: 5.048 - IF, Q2 - JCR, 1.828 - SJR, Q1 - SJR). ISSN 1999-4915. Dostupné na:

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- ADMA05 SCHNEIDER, Julia** - HOFFMANN, Bernd - FEVOLA, Cristina - SCHMIDT, Marie Luisa - IMHOLT, Christian - FISCHER, Stefan - ECKE, Frauke - HÖRNFELDT, Birger - MAGNUSSON, Magnus - OLSSON, Gert - RIZZOLI, Annapaola - TAGLIAPIETRA, V. - CHIARI, Mario - REUSKEN, C. - BUŽAN, Elena - KAZIMÍROVÁ, Mária - STANKO, Michal - WHITE, Thomas A. - REIL, D. - OBIEGALA, Anna - MEREDITH, Anna - DREXLER, J.F. - ESSBAUER, S. - HENTTONEN, Heikki - JACOB, Jens - HAUFFE, H.C. - BEER, Martin - HECKEL, G. - ULRICH, Rainer G. Geographical Distribution and Genetic Diversity of Bank Vole Hepaciviruses in Europe. In Viruses, 2021, vol. 13, no. 7, art. no. 1258. (2020: 5.048 - IF, Q2 - JCR, 1.828 - SJR, Q1 - SJR). ISSN 1999-4915. Dostupné na: <https://doi.org/10.3390/v13071258> (grant: 261504 EDENext : Biology and control of vector-borne infection. FKZ 01KI1018 : NAUPa-net. FKZ 01KI1303 : NaUPa-net. VINNOVA (P32060-1) : VINNOVA (P32060-1). Grant. no. 2007-107 : Swedish Research Council Formas. Grant 31003A-176209 : Swiss National Science Foundation)

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

- ADMB01 AKIMOV, I. A - DIDYK, Yuliya. Trichinellosis of wild animals in Ukraine and its danger to the public. In Zoodiversity, 2020, vol. 54, no. 5, p. 411-418. ISSN 2707-725X. Dostupné na: <https://doi.org/10.15407/zoo2020.05.411>

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.

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 KLÖCKLEROVÁ, Vanda - DAUBNEROVÁ, Ivana - ROLLER, Ladislav - KOČI, Juraj - HROMNÍKOVA, Dominika - PECINA, Peter - ŽITŇAN, Dušan. Charakterizácia neuropeptidov tachykinín a natalizín a ich receptorov u kliešť a Ixodes ricinus. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 234-239. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)
- AFD02 PECINA, Lukáš - PECINA, Peter - VĎAČNÝ, P. Problémy molekulárneho vymedzenia druhov: štúdia zameraná na nálevníky čeľade Clevelandellidae = Issues of molecular species delimitation: a study focused on ciliates of the family Clevelandellidae. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 376-381. ISBN 978-80-223-5132-4. (Študentská vedecká konferencia PriF UK 2021)

- AFD03 PECINA, Peter - PROKOP, Pavol - VIDLIČKA, Ľubomír - MAJTÁN, Juraj - PECINA, Lukáš - HROMNÍKOVÁ, Dominika - KLÖCKLEROVÁ, Vanda. Samočistenie švábov vyvolané vpichnutím neurotoxínu parazitoidnou osou = Self-cleaning of cockroaches induced by neurotoxin injection by the parasitoid wasp. In Študentská vedecká konferencia PriF UK 2021 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Dagmara Gajanová. Recenzenti: členovia odborného výboru. - Bratislava : Univerzita Komenského v Bratislave, Prírodovedecká fakulta MS TEAMS, 2021, s. 382-387. ISBN 978-80-223-5132-4. (VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku. VEGA 2/0074/21 : Invázny švábič *Planuncus tingitanus* (Blattaria) na Slovensku - šírenie, ekológia a etológia.. Študentská vedecká konferencia PriF UK 2021)

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 AKIMOV, I.A. - DUDINSKA, A.T. - MANGOVA, Barbara - DERDAKOVA, Markéta - DIDYK, Yuliya**. Hard ticks and tick-borne pathogens dangerous for visitors to the Synevir National Nature Park. In Zoology in the Modern World: Challenges of the 21st Century. - Kiev, 2021, p. 56. Dostupné na internete: <http://mail.izan.kiev.ua/IZAN90-abstracts.pdf> (VEGA 2/0119/17 : Detailná identifikácia a charakterizácia *Borrelia burgdorferi* sensu lato a *Borrelia miyamotoi* pomocou multilokusovej sekvenčnej typizácie (MLST).)
- AFG02 DIDYK, Yuliya** - AKIMOV, I. A. *Trichinella* spp. (Nematoda, Trichinellidae) amongst wild animals in Ukrainian Carpathians. In Zoology in the Modern World: Challenges of the 21st Century. - Kiev, 2021, p. 72.
- AFG03 CHVOSTÁČ, Michal - DIDYK, Yuliya - HEPNER, S. - MARGOS, G. - FINGERLE, V. - MORÁVKOVÁ, Veronika - DERDAKOVA, Markéta. Effect of geographical latitude on the variability of *Borrelia burgdorferi* sensu lato. In Abstracts North Tick ESGBOR : International Webinar online. - Sweden, 2021, p. 22. Dostupné na internete: <https://www.tickwebinar.com/onewebmedia/Abstract%20book.pdf>
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- AFG05 MTIEROVÁ, Zuzana** - DIDYK, Yuliya - CHVOSTÁČ, Michal - MANGOVA, Barbara - RUSŇÁKOVÁ - TARAGEL'OVÁ, Veronika - SELYEMOVÁ, Diana - VÁCLAV, Radovan - DERDAKOVA, Markéta. Blackbirds a key reservoir of neuroinvasive strains of *Borrelia garinii*. In Abstracts North Tick ESGBOR : International webinar /online. - Sweden, 2021, p.16. Dostupné na internete: <https://www.tickwebinar.com/onewebmedia/Abstract%20book.pdf>
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- AFH02 KYCA, Tomáš - PAVLÍKOVÁ, Lucia - BOHÁČOVÁ, Viera - MIŠÁK, Anton - POTURNAYOVÁ, Alexandra - BREIER, Albert - SULOVÁ, Zdena - ŠEREŠ, Mário. Účinok bortezomibu na P-gp negatívnu a pozitívnu bunkovú líniu L1210. In Drobnicov memoriál 11. ročník. Trenčín - Kubrica, 2. - 4. september 2021 : Zborník príspevkov a program. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, Slovenská akadémia vied, 2021, s. 23-24. ISBN 978-80-972752-8-0. (Vega č. 2/0157/18 : Vplyv polyfenolov na funkcie signálnych proteínov zahrnutých v N-glykozylácii proteínov v endoplazmatickom retikule leukemických buniek v závislosti od exprese P-glykoproteínu. Vega č. 2/0070/19 : Výskum zmien vo fenotype leukemických buniek po indukcii membránového transportéra ABCB1. Vega č. 2/0159/19 : Vplyv látok vyvolávajúcich stres endoplazmatického retikula na regulačné mechanizmy bunkového cyklu buniek s viacliekovou rezistenciou. Vega č. 2/0171/21 : Sledovanie prepojenia molekulárnych dejov vedúcich k rozvoju viacliekovej rezistencie v leukemických bunkách. APVV-19-0094 : Obranné mechanizmy mikrobiálnych a živočíšnych buniek pri znižovaní ich citlivosti na rastlinné defenzné zlúčeniny. APVV-19-0093 : Viaclieková rezistencia u leukemických buniek - fenotyp spôsobený interferenciou viacerých molekulárnych príčin. APP0011 : Sledovanie molekulárnych šaperónov na povrchu buniek a interakcia s ich partnerskými proteínmi. Drobnicov memoriál)
- AFH03 MEDLA, Matej - DAUBNEROVÁ, Ivana - KOČI, Juraj - ROLLER, Ladislav - SLOVÁK, Mírko - ŽITŇAN, Dušan. Charakterizácia myoinhibičného peptidu a jeho receptorov u kliešťa *Ixodes ricinus*. In Drobnicov memoriál : Zborník príspevkov a program. 11. ročník. Chata Trubárka, Trenčín - Kubrica, 2. - 4. september 2021. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, SAV, 2021, str.48. ISBN 978-80-972752-8-0. (VEGA 2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov. APVV-16-0395 : Úloha neuropeptidov a ich receptorov pri regulácii aktivity endokrinných a reprodukčných orgánov priadky morušovej (*Bombyx mori*))

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

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

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

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32. [1.2] MOROZOVA, Olga V. - PANOV, Victor V. - BAKHVALOVA, Valentina N. Innate and adaptive immunity in wild rodents spontaneously and experimentally infected with the tick-borne encephalitis virus. In *Infection, Genetics and Evolution*. ISSN 15671348, 2020-06-01, 80, pp. Dostupné na: <https://doi.org/10.1016/j.meegid.2020.104187>, Registrované v: SCOPUS

33. [1.2] NAWAZ, Mohsin - MALIK, Muhammad Irfan - ZHANG, Houshuang - GEBREMEDHIN, Mebrathu Berhe - CAO, Jie - ZHOU, Yongzhi - ZHOU, Jinlin. *miRNA profile of extracellular vesicles isolated from saliva of Haemaphysalis longicornis tick*. In *Acta Tropica*. ISSN 0001706X, 2020-12-01, 212, pp. Dostupné na: <https://doi.org/10.1016/j.actatropica.2020.105718>., Registrované v: SCOPUS
34. [1.2] NYRHILÄ, Siiri - SORMUNEN, Jani J. - MÄKELÄ, Satu - SIPPOLA, Ella - VESTERINEN, Eero J. - KLEMOLA, Tero. *One out of ten: low sampling efficiency of cloth dragging challenges abundance estimates of questing ticks*. In *Experimental and Applied Acarology*. ISSN 01688162, 2020-12-01, 82, 4, pp. 571-585. Dostupné na: <https://doi.org/10.1007/s10493-020-00564-5>., Registrované v: SCOPUS
35. [1.2] ROCHAT, Estelle - VUILLEUMIER, Séverine - AEBY, Sébastien - GREUB, Gilbert - JOOST, Stéphane. *Nested Species Distribution Models of Chlamydiales in Ixodes ricinus (Tick) Hosts in Switzerland*. In *Applied and Environmental Microbiology*. ISSN 00992240, 2020-01-01, 87, 1, pp. 1-20. Dostupné na: <https://doi.org/10.1128/AEM.01237-20>., Registrované v: SCOPUS
36. [1.2] ROSELLI, Megan A. - CADY, Samantha M. - LAO, Sirena - NODEN, Bruce H. - LOSS, Scott R. *Variation in Tick Load among Bird Body Parts: Implications for Studying the Role of Birds in the Ecology and Epidemiology of Tick-Borne Diseases*. In *Journal of Medical Entomology*. ISSN 00222585, 2020-05-01, 57, 3, pp. 845-851. Dostupné na: <https://doi.org/10.1093/jme/tjz228>., Registrované v: SCOPUS
37. [1.2] SORMUNEN, Jani Jukka - KULHA, Niko - KLEMOLA, Tero - MÄKELÄ, Satu - VESILAHTI, Ella Maria - VESTERINEN, Eero Juhani. *Enhanced threat of tick-borne infections within cities? Assessing public health risks due to ticks in urban green spaces in Helsinki, Finland*. In *Zoonoses and Public Health*. ISSN 18631959, 2020-11-01, 67, 7, pp. 823-839. Dostupné na: <https://doi.org/10.1111/zph.12767>., Registrované v: SCOPUS
38. [1.2] TORINA, Alessandra - VILLARI, Sara - BLANDA, Valeria - VULLO, Stefano - LA MANNA, Marco Pio - AZGOMI, Mojtaba Shekarkar - DI LIBERTO, Diana - DE LA FUENTE, José - SIRECI, Guido. *Innate immune response to tick-borne pathogens: Cellular and molecular mechanisms induced in the hosts*. In *International Journal of Molecular Sciences*. ISSN 16616596, 2020-08-01, 21, 15, pp. 1-23. Dostupné na: <https://doi.org/10.3390/ijms21155437>., Registrované v: SCOPUS
39. [1.2] ZAJĄC, Zbigniew - WOŹNIAK, Aneta - KULISZ, Joanna. *Infestation of dairy cows by ticks Dermacentor reticulatus (Fabricius, 1794) and Ixodes ricinus (Linnaeus, 1758) in eastern Poland*. In *Annals of parasitology*. ISSN 22990631, 2020-01-01, 66, 1, pp. Dostupné na: <https://doi.org/10.17420/ap6601.241>., Registrované v: SCOPUS
40. [1.2] ZANET, Stefania - FERROGLIO, Ezio - BATTISTI, Elena - TIZZANI, Paolo. *Ecological niche modelling of Babesia spp. infection in wildlife experimentally evaluated in Northern Italy with reference to questing ixodes ricinus ticks*. In *Geospatial Health*. ISSN 18271987, 2020-01-01, 15, 1, pp. Dostupné na: <https://doi.org/10.4081/gh.2020.843>., Registrované v: SCOPUS
41. [1.2] ZHAO, Tingting - GONG, Haiyan - SHEN, Xiaojuan - ZHANG, Wen - SHAN, Tongling - YU, Xiangqian - WANG, Seong Jin - CUI, Li. *Comparison of Viromes in Ticks from Different Domestic Animals in China*. In *Virologica Sinica*. ISSN 16740769, 2020-08-01, 35, 4, pp. 398-406. Dostupné na: <https://doi.org/10.1007/s12250-020-00197-3>., Registrované v: SCOPUS
42. [1.2] ZUBRIKOVÁ, Dana - WITTMANN, Maria - HÖNIG, Václav - ŠVEC, Pavel - VÍCHOVÁ, Bronislava - ESSBAUER, Sandra - DOBLER, Gerhard -

GRUBHOFFER, Libor - PFISTER, Kurt. Prevalence of tick-borne encephalitis virus and Borrelia burgdorferi sensu lato in Ixodes ricinus ticks in Lower Bavaria and Upper Palatinate, Germany. In Ticks and Tick-borne Diseases. ISSN 1877959X, 2020-05-01, 11, 3, pp. Dostupné na: <https://doi.org/10.1016/j.ttbdis.2020.101375>., Registrované v: SCOPUS 43. [3.1] KRUCHYENKO, O. V. (2020). Ectoparasites of dogs and cats (spreading and treatment). BULLETIN OF POLTAVA STATE AGRARIAN ACADEMY, ISSN: 2415-3354 (print), Vol. 3, no. 3, (2020), p. 241-250. DOI: 10.31210/visnyk2020.03.28

44. [3.1] TOKARSKA-RODAK, M., SHKILNA, M., KRAJEWSKA, M., PAŃCZUK, A., WEINER, M., PAWŁOWICZ, E., ... ANDREYCHYN, M. (2020). Ocena wiedzy myśliwych i leśników w zakresie możliwości zapobiegania infekcjom Borrelia burgdorferi. [The evaluation of hunters and foresters' knowledge of the possible ways of preventing Borrelia burgdorferi infections] Medycyna PRACY ISSN:0465-5893, 2020;71(1):59–68, DOI: 10.13075/mp.5893.00841

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

- ADNA01 BOHÁČ, Martin - ČAMBÁL, M. - ZAMBORSKÝ, Radoslav - TAKÁČ, Peter - FEDELEŠ, J. Maggot therapy in treatment of a complex hand injury complicated by mycotic infection. In Bratislava Medical Journal, 2015, vol. 116, iss. 11, p. 671–673. (2014: 0.439 - IF, Q4 - JCR, 0.223 - SJR, Q3 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2015_128 (Projekt: ITMS 26240220030 : Výskum a vývoj nových bioterapeutických metód pri liečbe niektorých závažných ochorení)
Citácie:
1. [1.1] FONSECA-MUNOZ, Alicia - SARMIENTO-JIMENEZ, Hugo E. - PEREZ-PACHECO, Rafael - THYSSEN, Patricia J. - SHERMAN, Ronald A. Clinical study of Maggot therapy for Fournier's; gangrene. In INTERNATIONAL WOUND JOURNAL. ISSN 1742-4801, 2020, vol., no., pp., Registrované v: WOS
- ADNA02 NECHVÁTAL, Pavol - TAKÁČ, Peter - STEHLÍKOVÁ, Beáta. Effect of spa therapy after intervertebral disc surgery in the cervical spine. In Bratislava Medical Journal, 2014, vol. 115, iss. 4, p. 238-242. (2013: 0.446 - IF, Q4 - JCR, 0.196 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2014_050
Citácie:
1. [1.1] CORVILLO, Iluminada - ARMIJO, Francisco - ALVAREZ-BADILLO, Antonio - ARMIJO, Onica - VARELA, Enrique - MARAVER, Francisco. Efficacy of aquatic therapy for neck pain: a systematic review. In INTERNATIONAL JOURNAL OF BIOMETEOROLOGY. ISSN 0020-7128, 2020, vol. 64, no. 6, pp. 915-925., Registrované v: WOS

*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

- AEC01 KOVÁČ, Ľubomír - MOCK, A. - ĽUPTÁČIK, Peter - KOŠEL, V. - FENĎA, Peter - SVATONĚ, Jan - MAŠÁN, Peter. Terrestrial arthropods of the Domica Cave system and the Ardovská 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>>

Citácie:

1. [1.1] FENG, Zegang - WYNNE, J. Judson - ZHANG, Feng. Cave-dwelling pseudoscorpions of China with descriptions of four new hypogean species of *Parobisium* (Pseudoscorpiones, Neobisiidae) from Guizhou Province. In *SUBTERRANEAN BIOLOGY*. ISSN 1768-1448, 2020, vol. 34, no., pp. 61-98. Dostupné na: <https://doi.org/10.3897/subtbiol.34.49586>, Registrované v: WOS

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

- AECA01 ŽITŇAN, Dušan - DAUBNEROVÁ, Ivana. Crustacean Cardioactive Peptide. In Handbook of Hormones: Comparative Endocrinology for Basic and Clinical Research. : 1st ed. - US : Academic Press is an imprint of Elsevier, 2016, part II, Section 2., Subsection 2.2., Chapter 69. p. 442-443, e69-2. ISBN 978-0-1280-1028-0. Dostupné na: <https://doi.org/10.1016/B978-0-12-801028-0.00069-6>

Citácie:

1. [1.1] HYDE, Cameron J. - ELIZUR, Abigail - VENTURA, Tomer. The crustacean ecdysone cassette: A gatekeeper for molt and metamorphosis. In *JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY*. ISSN 0960-0760, 2019, vol. 185, no., pp. 172-183. Dostupné na: <https://doi.org/10.1016/j.jsbmb.2018.08.012>, Registrované v: WOS
2. [1.1] TOPRAK, Umut. The Role of Peptide Hormones in Insect Lipid Metabolism. In *FRONTIERS IN PHYSIOLOGY*. ISSN 1664-042X, 2020, vol. 11, no., pp. Dostupné na: <https://doi.org/10.3389/fphys.2020.00434>, Registrované v: WOS

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

- AED01 ROLLER, Ladislav. Hrubopáse blanokrídlavce (hymenoptera: Symphyta) PR Šúr. In *Príroda rezervácie Šúr*. Editori: Oto Majzlan, Ľubomír Vidlička. - Bratislava : Ústav zoológie SAV, 2010, s. 215-236. ISBN 978-80-970326-0-9.

Citácie:

1. [3.1] Balázs, A., & Haris, A. (2020). Further investigation on the sawfly fauna (Hymenoptera: Symphyta) of Cerová vrchovina Upland in Slovakia. *Natura Somogyiensis*, (35), 71-86. ISSN: 1587-1908
2. [3.1] Haris, A. (2020). Sawflies of Southern part of Somogy county (Hymenoptera: Symphyta). *NATURA SOMOGYIENSIS*, (35), 51-69. ISSN: 1587-1908

AEDA Vedecké práce v domácich recenzovaných zborníkoch, kratšie kapitoly/state v domácich monografiách alebo VŠ učebniciach

- AEDA01 ASTALOŠ, B. - MIHÁL, Ivan - MAŠÁN, Peter - STAŇKOVÁ, E. Kosce (Opiliones) Chránenej krajiny oblasti Kysuce. In *Vlastivedný zborník Považia XIX*. - Žilina : Považské múzeum, 1998, s. 93-99.

Citácie:

1. [4.1] LITAVSKÝ, Juraj - STAŠIOV, Slavomír - FEDOR, Peter - MAJZLAN, Oto. Taxocenózy koscov (Opiliones) a ich bioindikačný potenciál v evaluácii ekologických a environmentálnych parametrov krajiny Podunajska = Taxocoenoses of harvestmen (Opiliones) and their bioindication potential in evaluating ecological and environmental parameters in Danubian habitats.

- AEDA02 *Zvolen : Technická univerzita vo Zvolene, 2019. 112 s. ISBN 978-80-228-3147-5*
ŠUSTEK, Zbyšek. Reactions of carabid communities on wind disaster in High Tatra: a manifestation of species humidity preference. In Transport vody, chemikálií a energie v systéme pôda-rastlina-atmosféra : posterový deň s medzinárodnou účasťou. 15. [elektronický zdroj]. - Bratislava : Ústav hydrológie SAV : Geofyzikálny ústav SAV, 2007, pp. 635–643. ISBN 978-80-89139-13-2. Názov z. Požaduje sa (Transport vody, chemikálií a energie v systéme pôda-rastlina-atmosféra : Posterový deň s medzinárodnou účasťou)

Citácie:

1. [1.2] *FÜLÖP, Dávid - BÉRCES, Sándor - SZABÓ, Péter - SAMU, Ferenc. Effects of abiotic factors on co-occurring Carabus (Coleoptera: Carabidae) species. In Biologia. ISSN 00063088, 2021-02-01, 76, 2, pp. 663-671. Dostupné na: <https://doi.org/10.2478/s11756-020-00593-w>. Published: 15 September 2020, Registrované v: SCOPUS*

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

- AEDB01 VRŠANSKÝ, Peter - KOUBOVÁ, Ivana - VRŠANSKÁ, Lucia - HINKELMAN, Jan - KÚDELA, Matúš - KÚDELOVÁ, Tatiana - LIANG, Jun-Hui - XIA, Fungyuan - LEI, Xiaojie - REN, Xiaoyin - VIDLIČKA, Ľubomír - BAO, Tong - ELLENBERGER, Sieghard - ŠMÍDOVÁ, Lucia - BARCLAY, Maxwell. Early wood-boring Mole roach reveals eusociality "missing ring". In Amba projekty. - Bratislava, 2010, 2019, vol. 9, no. 1, 28 p.

Citácie:

1. [1.1] *HINKELMAN, Jan - VRŠANSKÁ, Lucia. A Myanmar amber cockroach with protruding feces contains pollen and a rich microcenosis. In SCIENCE OF NATURE. ISSN 0028-1042, 2020, vol. 107, no. 2, pp. Dostupné na: <https://doi.org/10.1007/s00114-020-1669-y>., Registrované v: WOS*
 2. [1.1] *SMIDOVÁ, Lucia. Cryptic bark cockroach (Blattinae: Bubosa poinari gen. et sp. nov.) from mid-Cretaceous amber of northern Myanmar. In CRETACEOUS RESEARCH. ISSN 0195-6671, 2020, vol. 109, no., pp. Dostupné na: <https://doi.org/10.1016/j.cretres.2020.104383>., Registrované v: WOS*
 3. [2.1] *BEZERRA, Francisco Irineudo - MENDES, Marcio - DE SOUZA, Og. New record of Mastotermitidae from Fonseca Basin, Eocene-Oligocene boundary of southeastern Brazil. In BIOLOGIA. ISSN 0006-3088, 2020, vol. 75, no. 11, pp. 1881-1890. Dostupné na: <https://doi.org/10.2478/s11756-020-00441-x>., Registrované v: WOS*
 4. [3.1] *ROSS, A. J. Supplement to the Burmese (Myanmar) amber checklist and bibliography, 2019. In Palaeoentomology, 2020, Vol. 3, N. 1, p. 103-118.*
 5. [4.1] *KOUBOVÁ, I. - MLYNSKÝ, T. Two new mid-Cretaceous dictyopterans (Umenocoleidae: Vitisminae) from northern Myanmar exemplify taphonomic bias. In Amba projekty, 2020, Vol. 10, N. 1, p. 1-16.*

AFC Publikované príspevky na zahraničných vedeckých konferenciách

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

1995-2005. Slovak section. - 2006, p. 175-181.

Citácie:

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

AFD Publikované príspevky na domácich vedeckých konferenciách

- AFD01 DERDÁKOVÁ, Markéta - CHVOSTÁČ, Michal - VACULOVÁ, T. - VÁCLAV, Radovan - ĎUROVSKÁ, J. - PANCÁK, J. - RUSŇÁKOVÁ - TARAGEL'OVÁ, Veronika. Molecular eco-epidemiology of borreliosis in Slovakia. : Oral presentation. In Congress proceedings from the 5th annual scientific congress on Zoonoses, Foodborne and Waterborne Diseases – Protection of Public and Animal Health. National Focal Point of Slovak Republic for scientific and technical matters for EFSA (ed.) ; ministry of Agriculture and Rural Development of the Slovak Republic (publisher). - Bratislava : Ministry of Agriculture and Rural Development of the Slovak Republic, 2016, p. 117-121. ISBN 978-80-89738-09-0. (5th annual scientific congress on Zoonoses, Foodborne and Waterborne Diseases – Protection of Public and Animal Health. 5th annual scientific congress on Zoonoses, Foodborne and Waterborne Diseases – Protection of Public and Animal Health)

Citácie:

1. [1.1] HEGLASOVA, Ivana - RUDENKO, Natalie - GOLOVCHENKO, Maryna - ZUBRIKOVA, Dana - MIKLISOVA, Dana - STANKO, Michal. *Ticks, fleas and rodent-hosts analyzed for the presence of Borrelia miyamotoi in Slovakia: the first record of Borrelia miyamotoi in a Haemaphysalis inermis tick. In TICKS AND TICK-BORNE DISEASES. ISSN 1877-959X, 2020, vol. 11, no. 5, pp. Dostupné na: <https://doi.org/10.1016/j.ttbdis.2020.101456>, Registrované v: WOS*

AFG Abstrakty príspevkov zo zahraničných konferencií

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

Citácie:

1. [1.2] BĂLĂCENOIU, Flavius - BUZATU, Andrei - TOMA, Dragoș - ALEXANDRU, Alina - NEȚOIU, Constantin. *Occurrence of invasive insects on woody plants in the main green areas from Bucharest city. In Notulae Botanicae Horti Agrobotanici Cluj-Napoca. ISSN 0255965X, 2020-01-01, 48, 3, pp. 1649-1666. Dostupné na: <https://doi.org/10.15835/NBHA48311903>, Registrované v: SCOPUS*
2. [1.2] LISTON, Andrew - PROUS, Marko. *Recent additions to the list of German sawflies (Hymenoptera, Symphyta). In Deutsche Entomologische Zeitschrift. ISSN 14351951, 2020-01-01, 67, 2, pp. 127-139. Dostupné na: <https://doi.org/10.3897/DEZ.67.54002>, Registrované v: SCOPUS*
3. [3.1] Мартынов, В. В., Никулина, Т. В., Шохин, И. В., & Терсков, Е. Н. (2020). Материалы к фауне инвазивных насекомых Предкавказья. Полевой журнал биолога, [Field biologist journal] ISSN: 2658-3453, 2(2), 99-122.

<https://doi.org/10.18413/2658-3453-2020-2-2-99-122>

4. [3.1] Matsiakh, I., & Kramarets, V. (2020). Інвазії комах-філофагів на територію України. Наукові праці Лісівничої академії наук України, ISSN: 1991-606X (20), 11-25.

DAI Dizertačné a habilitačné práce

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

Citácie:

1. [3.1] Haris, A. (2020). Sawflies of Southern part of Somogy county (Hymenoptera: Symphyta). NATURA SOMOGYIENSIS, (35), 51-69. ISSN 1587-1908

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Veronika Michalková, Ph.D.

Názov semestr. predmetu: Medicínska entomológia

Počet hodín za semester: 12

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

prof. PaedDr. Pavol Prokop, DrSc.

Názov semestr. predmetu: Behaviorálna ekológia v ochrane prírody

Počet hodín za semester: 24

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

prof. PaedDr. Pavol Prokop, DrSc.

Názov semestr. predmetu: Dynamika biologických systémov

Počet hodín za semester: 9

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

prof. PaedDr. Pavol Prokop, DrSc.

Názov semestr. predmetu: Ekológia pre environmentalistov

Počet hodín za semester: 6

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

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Ekologické princípy ochrany prírody

Počet hodín za semester: 2

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

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Krajina a biodiverzita

Počet hodín za semester: 2

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

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Genetika správania I a II

Počet hodín za semester: 4

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

Semestrálne cvičenia:

Mgr. Matej Medla

Názov semestr. predmetu: Základné cvičenia z molekulárnej biológie

Počet hodín za semester: 14

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

Semináre:

Terénne cvičenia:

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Terénne práce z ekológie

Počet hodín za semester: 24

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

Individuálne prednášky:

Mgr. Martina Gáliková, PhD.

Názov semestr. predmetu: Pokroky v Molekulárnej biológii, časť Génové manipulácie v bezstavovčích biomedicínskych modeloch

Počet hodín za semester: 3

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Igor Kokavec, PhD.

Názov semestr. predmetu: Reprodukčné stratégie bezstavovcov

Počet hodín za semester: 2

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

prof. PaedDr. Pavol Prokop, DrSc.

Názov semestr. predmetu: Biodiverzita

Počet hodín za semester: 3

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

RNDr. Peter Takáč, CSc.

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

Počet hodín za semester: 1

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Vybrané kapitoly / Využitie hmyzu a kliešťov pri štúdiu neuroendokrinných pochodov regulujúcich vývin a správanie

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Vybrané kapitoly / Využitie hmyzu a kliešťov pri štúdiu neuroendokrinných pochodov regulujúcich vývin a správanie

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Vybrané kapitoly / Využitie hmyzu a kliešťov pri štúdiu neuroendokrinných pochodov regulujúcich vývin a správanie

Počet hodín za semester: 2

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

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Rakúsko					Veronika Michalková	5
Počet vyslaní spolu					1	5

(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
Chorvátsko	FEBS 2021	Matej Medla	4
Nemecko (online)	ISTTBD-XIV	Markéta Derdáková	3
		Yuliya Didyk	3
		Barbara Mangová	3
		Michal Stanko	3
Nórsko (online)	NorthTick ESGBOR	Markéta Derdáková	1
		Yuliya Didyk	1
		Michal Chvostáč	1
		Barbara Mangová	1
		Veronika Rusňáková Taragel'ová	1
		Diana Selyemová	1
		Radovan Václav	1
Ukrajina (online)	ZvSS	Markéta Derdáková	3
		Yuliya Didyk	3
		Barbara Mangová	3
Spolu	4	15	32

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

Skratky použité v tabuľke C:

FEBS 2021 - The 20th FEBS Young Scientists' Forum
 ISTTBD-XIV - XIV-th International symposium on Ticks-borne diseases
 NorthTick ESGBOR - NorthTick ESGBOR
 ZvSS - Zoologija v súčasnomu sviti: vikliki XXI ctolittja

Príloha F**Vedecko-popularizačná činnosť pracovníkov organizácie SAV**

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Alžbeta Darolová, CSc.		RO	rozhovor s redaktorkou o zimujúcich vtákoch	RTVS	29.11.2021
MVDr. Markéta Derdáková, PhD.		TV	Ako správne vybrať kliešťa	TV Bratislava	9.6.2021
MVDr. Markéta Derdáková, PhD.		IN	Ako vytiahnuť kliešťa	podcast Bez receptu	6.4.2021
MVDr. Markéta Derdáková, PhD.		TV	Domáci miláčikovia a kovid/kliešte	TA3, relácia Tak takto	1.7.2021
MVDr. Markéta Derdáková, PhD.		TV	Ekológia kliešťov a lymská borelióza	relácia Experiment, STV2	6.9.2021
MVDr. Markéta Derdáková, PhD.		RO	Kliešte sa kopulujú na hostiteľoch, na človeku to je nepravdepodobné, sme pre ne slepý článok.	Talkshow Host' Andrey Poláčkovej pripravuje RTVS - Slovenský rozhlas, Rádio Slovensko, SRo1.	3.6.2021
MVDr. Markéta Derdáková, PhD.		TL	Mačky verzus Covid	Týždenník Téma	7.4.2021
MVDr. Markéta Derdáková, PhD.		TL	Parazitologička: Kliešte nájdete aj na tučniakoch	Hospodárske noviny	4.7.2021
MVDr. Markéta Derdáková, PhD.		RO	Rozhovor o kliešťoch a kliešťami prenášaných ochoreniach	Rádio FM	29.6.2021
RNDr. Mária Kazimírová, CSc.		TL	Látky zo slín kliešťov môžu poslúžiť pri liečbe mnohých ochorení	https://www.unilabs.sk/clanky-invitro/latky-zo-slin-kliestov-mozu-posluzit-pri-liecbemnohych-ochoreni	28.6.2021
RNDr. Mária Kazimírová, CSc.		RO	rozhovor	Dobré ráno, Slovensko	9.6.2021
prof. PaedDr. Pavol Prokop, DrSc.		TL	Ako svadobný dar ponúkajú korisť zabalenú do pavučiny. Aktivitu si môžu dovoliť len zdatné samce pavúkov lovcíkov	Denník N	3.12.2021
prof. PaedDr. Pavol Prokop, DrSc.		TL	Čmeliakom sme ponúkali odlišné snežienky. Skúmali sme, ako kvety (ne)lákajú opel'ovače	Denník N	8.3.2021
prof. PaedDr. Pavol Prokop, DrSc.		TV	Nočná pyramída	RTVS	25.10.2021
prof. PaedDr. Pavol Prokop, DrSc.		TL	Švába premení na zombie. Slovenskí vedci skúmali vplyv jedu osy na bizarné správanie hostiteľa	Denník N	1.3.2021

Mgr. Marek Semelbauer, PhD.		IN	Čo s hmyzom, ktorý chce prezimovať vo vašom byte?	https://www.karlovave.sk/co-s-hmyzom-ktory-chce-prezimovat-vo-vasom-byte/	9.9.2021
Mgr. Marek Semelbauer, PhD.		IN	Monitoring hmyzu na lokalite Nové Lido	https://urbanimaginatiionsk.cargo.site/Marek-Semelbauer-Monitoring-hmyzu	10.10.2021
Mgr. Marek Semelbauer, PhD.		TL	Panónsky háj kedysi a dnes	Šútsky žurnál	2021
Mgr. Marek Semelbauer, PhD.		RO	VEDA NA DVE MINÚTY Prečo je tak ťažké chytiť muchu?	Fun radio	19.1.2021
Mgr. Marek Semelbauer, PhD.	Eva Struhárňanská	IN	Ázijský sršeň útočí na európske včely, Slovensko zatiaľ neohrozuje	Denník Štandard, https://dennikstandard.sk/19879/azijsky-srsen-utoci-na-europske-vcely-slovensko-zatial-neohrozuje/	16.1.2021
Mgr. Marek Semelbauer, PhD.	Eva Struhárňanská	IN	Včela medonosná inak: Invazívny druh, ktorý potláča iné opel'ovače	denník Štandard	20.5.2021
Mgr. Marek Semelbauer, PhD.	Jana Májeková	EX	Sobotňajšia botanická exkurzia do Karlovej Vsi	Karlova Ves, areál ZŠ Alexandra Dubčeka	19.6.2021
Mgr. Marek Semelbauer, PhD.	Monika Chrenková, Martina Badidová-Brinzíková	EX	Prírodovedná exkurzia so zameraním na opel'ovače	Mestské lesy v Bratislave	9.7.2021
Mgr. Marek Semelbauer, PhD.	OZ Tranzit	EX	Prírodovedná exkurzia so zameraním na hmyz	Nové Lido, Petržalka	10.8.2021
Mgr. Marek Semelbauer, PhD.	Peter Lipovský	EX	Sobotňajšia botanická exkurzia	Panónsky Háj vo Svätom Jure	25.9.2021
Mgr. Radovan Václav, PhD.		RO	O vtáčej migrácii	Rádio Regina	23.8.2021
Mgr. Radovan Václav, PhD.		DO	odborná spolupráca na dokumentárnom filme "Hľadáme Dunaj"	RTVS :2	1.1.2021
Mgr. Radovan Václav, PhD.		PB	Rozmanitosť vtáctva na Slovensku	CVTI SR, Veda na dosah; https://youtu.be/dHCKOBrsP64	15.6.2021
Mgr. Radovan Václav, PhD.		PB	Vtáctvo v meniacom sa globálnom prostredí	CVTI SR, Veda na dosah; https://youtu.be/-ligSEbiOZ8	15.6.2021
doc. RNDr. Ľubomír Vidlička, CSc.	Mgr. Adrián Purkart	TV	Relácia Experiment: Mravce a termity	RTVS	22.11.2021
Mgr. Michal Chvostáč, PhD.		TL	Kliešťová sezóna je tu! Áno, už v marci!	časopis Moje zdravie	0
Mgr. Marek Semelbauer, PhD.		TL	rubrika	časopis 50+, review pre zrelých čitateľov	4

Mgr. Marek Semelbauer, PhD.		TL	rubrika	Doma v záhrade	2
Mgr. Marek Semelbauer, PhD.		TL	Rubrika "Menej známe opel'ovače"	včelársky časopis Dymák	12

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