

Ústav zoológie SAV



**Správa o činnosti organizácie SAV
za rok 2019**

Bratislava
január 2020

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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	44	26	18	5	2	43	40.2	19.91	0
Vedeckí pracovníci	32	22	10	4	0	31	26.44	19.81	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	2	1	1	1	1	2	1.8	0.1	0
Odborní pracovníci VŠ (ostatní zamestnanci ²)	2	0	2	0	0	2	3.3	0	0
Odborní pracovníci ÚS	6	2	4	0	1	6	6.66	0	0
Ostatní pracovníci	2	1	1	0	0	2	2	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 31.12.2019 (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 31.12.2019 (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 31.12.2019)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	3	19	2	2	4	12	6
Ženy	0	10	0	0	0	6	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	2	1.1	3	3.0	0	0.0	2	1.5	1	1.0	1	1.0	1	1.0	3	2.1	2	1.5
Ženy	0	0.0	1	1.0	3	3.0	2	1.5	0	0.0	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 31.12.2019

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	48.5	49.8	48.3
Ženy	44.8	44.1	44.9
Spolu	47.0	48.0	47.1

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 2019

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	7	2	-	-	60534	60534	-	6598
2. Projekty APVV	3	3	-	-	118566	118566	-	33818
3. Projekty OP ŠF	0	0	-	-	-	-	-	-
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	0	0	-	-	-	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2019

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2019	-	1	
2. Projekty výziev OP ŠF podané r. 2019	Bratislava		2
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2019

Tabuľka 2c Medzinárodné projekty riešené v roku 2019

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 7. RP EÚ a Horizont 2020	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	-	-	-	-	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné)	1	0	-	-	15920	15920	-	-
9. Iné projekty	1	1	-	-	-	-	-	3750

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2019

Tabuľka 2d Počet projektov Horizont 2020 v roku 2019

	A	B
Počet podaných projektov Horizont 2020	2	

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

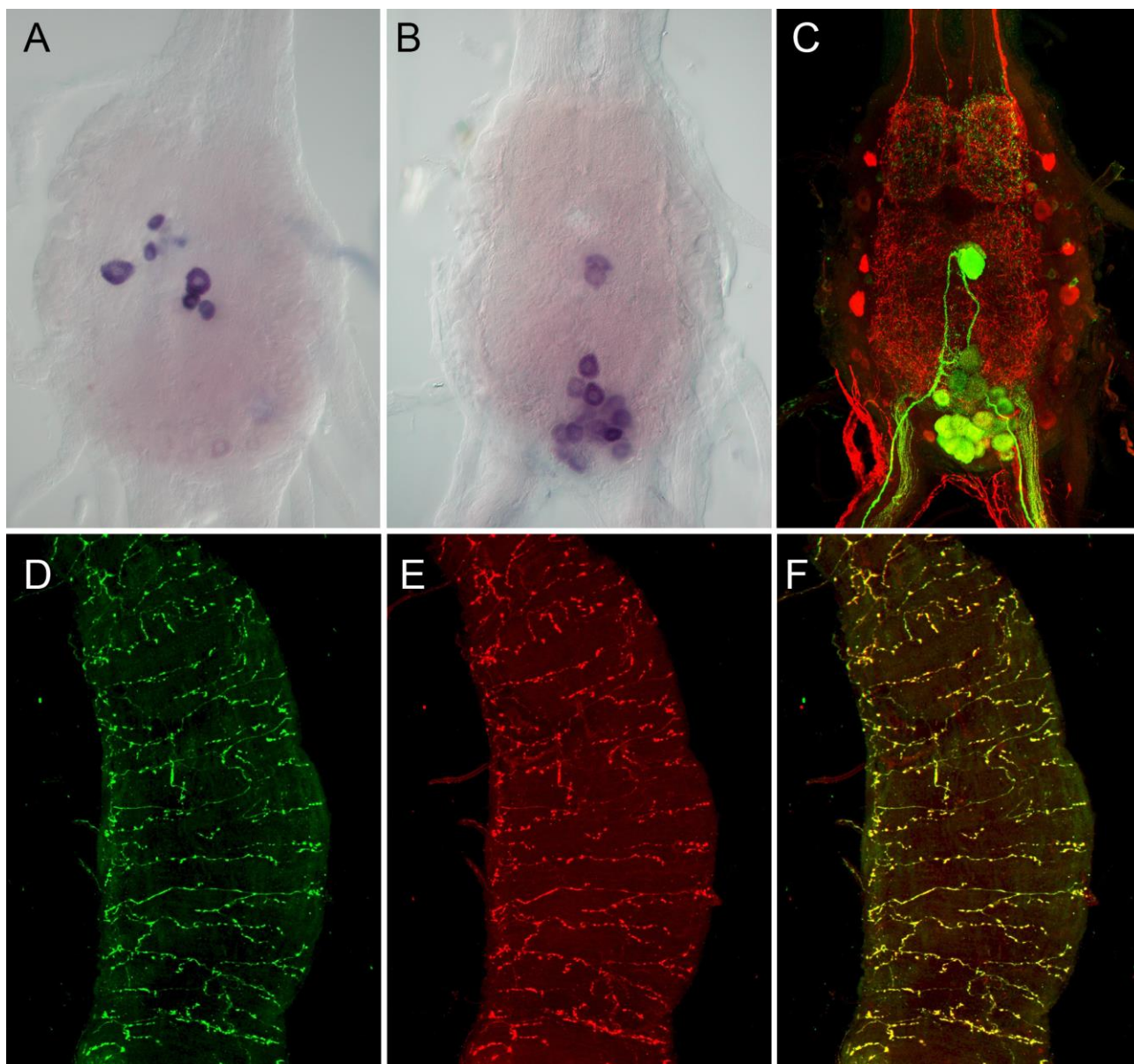
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF)

2.3.1. Základný výskum

A. Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa

V našej práci sme opísali špecifickú časť nervového systému a identifikovali peptidové neurohormóny, ktoré majú rozhodujúcu úlohu pri regulácii oplodňovania a reprodukcie hmyzu. Tím pracovníkov na ÚZ SAV zistil, že zhluk asi 20 neurónov špecifických len pre samce inervuje veľkú časť jeho vnútorných pohlavných orgánov (prídatné žľazy a gonodukty). Tieto neuróny, ktoré sme nazvali MAN9 (male abdominal neurons of 9th neuromere) sa spolu s pohlavnými orgánmi vyvinú počas metamorfózy a sú nevyhnutné pre úspešné oplodnenie samíc. Pomocou imunohistochemie a in situ hybridizácie sme dokázali, že tento zhluk neurónov produkuje zmes veľkého počtu neuropeptidov, ktoré sú odvodené zo štyroch odlišných prekursorov a vykazujú podobnosť s neurohormónmi človeka. Na overenie účinkov jednotlivých neuropeptidov sme použili elektrofyzologické prístroje a objasnili sme ich úlohu pri regulácii aktivity pohlavných orgánov samcov *in vitro*. Kvantitatívnou RT-PCR sme dokázali prítomnosť (expresiu) receptorov pre tieto neuropeptidy v inervovaných častiach gonád samcov. V tejto práci sme ako prví na svete dokázali, že špecifické neuróny produkujúce veľkú zmes neuropeptidov regulujú aktivitu pohlavných orgánov samcov pri kopulácii a sú nevyhnutné pre oplodnenie samice. Tieto výsledky sú mimoriadne dôležité pre pochopenie hormonálnej regulácie rozmnožovania hmyzu a môžu prispieť k vývoju účinných prostriedkov v boji proti škodcom.



In situ hybridizácia s próbou pre neuropeptid podobný kalcitonínu v nervovom systéme samice (A) a samca (B) priadky morušovej (*Bombyx mori*). Zhľuk ~20 neurónov (MAN9) sme pozorovali len u samcov. Následným dvojitém imunohistochemickým farbením s protilátkami proti kalcitonínu (zelená) a myoinhibičnému peptidu (červená) sme zistili, že tieto neuróny (C) inervujú pohlavné orgány samcov (D-F).

1. ČIŽMÁR, Daniel - ROLLER, Ladislav - PILLEROVÁ, Miriam - SLÁMA, Karel - ŽITŇAN, Dušan. Multiple neuropeptides produced by sex-specific neurons control activity of the male accessory glands and gonoducts in the silkworm *Bombyx mori*. In Scientific Reports, 2019, vol. 9, art. no. 2253, 13 pp. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. **ADCA**

B. Vplyv teploty prostredia na metabolizmus a reprodukciu modelového druhu

Teplota je jedným z najvýznamnejších environmentálnych faktorov ovplyvňujúcich fyziológiu ektotermných živočíchov. V našej práci sme skúmali účinok teploty na množstvo energetických zásob (tuku a glykogénu) u modelového organizmu *Drosophila melanogaster*. Náš výskum odhalil, že pri optimálnych teplotách (15°C - 27°C) dochádza k hromadeniu telesného tuku, zatiaľ čo nízke (< 15 °C) alebo vysoké (> 27 °C) teploty spôsobujú úbytok tukových zásob. Množstvo glykogénu sa mení vplyvom teploty obdobným, hoci nie až tak výrazným spôsobom. Následne sme skúmali vzťah medzi teplotou, príjmom potravy a rýchlosťou metabolizmu. Zistili sme, že príjem potravy aj rýchlosť metabolizmu sa menia s teplotou rovnako. Tento výsledok naznačuje, že teplotou podmienené zmeny v zásobách tuku a glykogénu s veľkou pravdepodobnosťou nie sú dôsledkom nadmerného energetického výdaja resp. zníženého príjmu potravy. Nakoniec sme zisťovali ako teplota prostredia vplyva na schopnosť prežitia bez potravy. Z našich údajov vyplýva, že táto vlastnosť je negatívnou exponenciálnou funkciou teploty. Celkove náš výskum ukázal, že optimálna teplota prostredia podporuje u drozofil akumulovanie energetických zásob, zatiaľ čo nízke alebo vysoké teploty spôsobujú ich redukciu. Naša práca je prvou systematickou štúdiou vplyvu teploty na množstvo zásobných látok u ektotermného živočícha.

V ďalšom výskume sme sa venovali charakteru termálnej vývinovej plasticity – skúmali sme, či je táto plasticita adaptívna alebo neadaptívna. Účinok vývinovej termálnej plasticity sme analyzovali za pomoci faktoriálneho dizajnu s tromi vývinovými a tromi teplotami počas dospelosti. Zistili sme, že drozofily, ktoré sa vyvinuli pri strednej teplote (25°C) majú porovnateľnú alebo vyššiu fekunditu a fertilitu pri daných experimentálnych teplotách než jedince, ktoré sa vyvíjali pri nižšej (17°C) alebo vyššej teplote (29°C). Tento jav bol zreteľný aj keď sme vzali do úvahy morfológické parametre ako veľkosť tela a počet ováriol. Vývin pri danej teplote tak nevedie v dospelosti nevyhnutne k zvýšeniu reprodukčného fitness pri tejto teplote. Tento výsledok jednoznačne podporuje hypotézu optimálnej vývinovej teploty, ktorá tvrdí, že najvyššie fitness je v dospelosti dosiahnuté, ak sa organizmus vyvinie pri optimálnej teplote.



1. KLEPSATEL, Peter – WILDRIDGE, D. – GÁLIKOVÁ, Martina. Temperature induces changes in *Drosophila* energy stores. In Scientific Reports, 2019, vol. 9, iss. 1, art. no. 5239. (2018: 4.011 – IF, Q1 – JCR, 1.414 – SJR, Q1 – SJR, karentované – CCC). (2019 – Current Contents, WOS, SCOPUS). ISSN 2045-2322.(APVV-14-0556 : Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa). Typ: **ADCA**
2. KLEPSATEL, Peter – GIRISH, Thirnahalli Nagaraj – DIRCKSEN, Heinrich – GÁLIKOVÁ, Martina. Reproductive fitness of *Drosophila* is maximised by optimal developmental temperature. In Journal of Experimental Biology, 2019, vol. 222, iss. 10, art. no.UNSP jeb202184. (2018: 3.017 – IF, Q1 – JCR, 1.482 – SJR, Q1 – SJR, karentované – CCC). (2019 – Current Contents). ISSN 0022-0949.(APVV-14-0556 : Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa). Typ: **ADCA**

2.3.2. Aplikálny typ

Živočíchy sú v čoraz väčšej miere nútené využívať počas svojho života prostredie, ktoré bolo vytvorené alebo pretvorené človekom. Vo výskume, ktorý bol zrealizovaný s kolegami z Českej republiky a Španielska, sme u rôznych druhov ohrozených vtákov sledovali väzby na hniezdne biotopy. V práci Šálek a kol. (2019a) sme sledovali príčiny mortality u dvoch ohrozených druhov sov (plamienka driemavá a kuvik obyčajný), ktoré u nás zvyčajne žijú v blízkosti človeka. Zistili sme, že úhyny v dôsledku utopenia v rôznych zberných nádobách alebo v dôsledku zachytenia v otvoroch, sú prekvapujúco časté, avšak opomínané príčiny úbytkov týchto sov. Zvýšenie dostupnosti bezpečných hniezdných stanovišť je jedným z navrhovaných opatrení na účinnejšiu ochranu týchto druhov sov.



Príklady antropogénnych zdrojov mortality u dvoch skúmaných druhov sov.

V práci Šálek a kol. (2019b) sme sledovali vzorce výberu hniezdného biotopu strnádky záhradnej. Zistili sme, že tento druh v súčasnosti u nás uprednostňuje biotopy so zdegradovaným pôdnym krytom. Keďže viaceré druhy ohrozených vtákov sú silne viazané na zdegradované, ale zároveň málo trvácne, biotopy, v práci apelujeme na cieľný manažment takýchto biotopov. Diverzita hniezdných stanovišť je opomínanou otázkou v ochrane prírody. Táto otázka nie je triviálna, pretože celé skupiny vtákov sú v čoraz väčšej miere odkázané na jeden alebo málo typov hniezdného stanovišťa - najčastejšie antropogénneho pôvodu. V práci Valera a kol. (2019) navrhujeme menežmentové opatrenie na zvýšenie atraktivity prirodzených hniezdných stanovišť vtákov hniezdiacich v dutinách medzi ktoré patrí aj študovaná krakľ'a belasá.

1. VALERA, Francisco - VÁCLAV, Radovan - CALERO-TORRALBO, Miguel A. - MARTINEZ, Teresa - VEIGA, Jesús. Natural cavity restoration as an alternative to nest box supplementation. In RESTOR ECOL / Restoration ecology The Journal of Society for Ecological Restoration, 2019, vol. 27, no. 1, pp. 220–227. (2018: 2.826 - IF, Q2 - JCR, 1.183 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1061-2971. Typ: **ADCA**
2. ŠÁLEK, Martin - POPRACH, Karel - OPLUŠTIL, Libor - MELICHAR, David - MRÁZ, Jakub - VÁCLAV, Radovan. Assessment of relative mortality rates for two rapidly declining farmland owls in Czech Republic (Central Europe). In European Journal of Wildlife Research, 2019a, vol. 65, no. 1, art. no. 19, 11 pp. (2018: 1.184 - IF, Q2 - JCR, 0.579 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1612-4642. Typ: **ADCA**
3. ŠÁLEK, Martin - ZEMAN, Vít - VÁCLAV, Radovan. Habitat selection of an endangered European farmland bird, the Ortolan Bunting *Emberiza hortulana*, in two contrasting landscapes: implications for management. In Bird conservation international, 2019b, vol. 29, iss. 1, p. 144-158. (2018: 1.725 - IF, Q2 - JCR, 0.863 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0959-2709. Typ: **ADCA**

2.3.3. Medzinárodné vedecké projekty

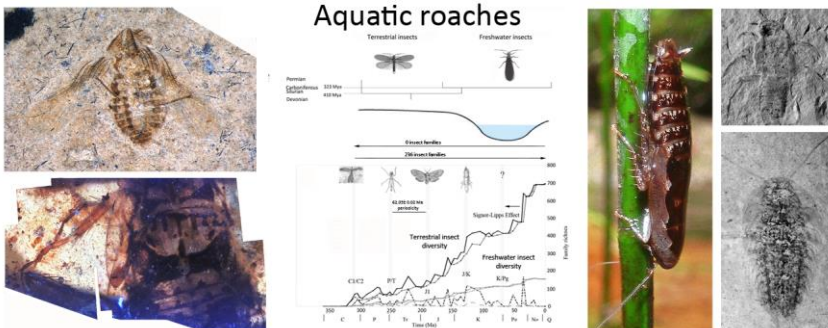
A. Genomická analýza šiestich druhov múch tse-tse (*Glossina*), vektorov afrických trypanosomiáz

Genomické analýzy múch z rodu *Glossina* (tsetse) potvrdili v súčasnosti zavedené vývojové vzťahy medzi druhmi aj podrodmi. Syntetická analýza rodu *Glossina* vo vzťahu k *Drosophila melanogaster* ukazuje zníženie štrukturálnej zachovalosti pohlavne viazaného X chromozómu. S pohlavím spojené gény vykazujú zvýšenú mieru expresie u samičiek a nižšiu rýchlosť evolúcie v porovnaní s génmi na autozómoch. Genóm múch tse-tse je bohatý na gény kódujúce proteázy, helikázy a pachové receptory. Gény spojené s laktáciou sú konzervované vo všetkých druhoch rodu *Glossina*, zatiaľ čo samčie semenné proteíny sa rýchlo vyvíjajú. Čuchové a chuťové gény sú redukované naprieč rodmi v porovnaní s iným hmyzom. Gény rodopsínu spojené so zrakom ukazujú zachovanie funkcií detekcie pohybu a variabilitu v detekcii farieb v rozsahu modrých vlnových dĺžok. Výsledky poskytujú základňu pre ďalšie štúdium a ochranu pred prenosom živočíšnych a ľudských trypanozomiáz (spavá choroba).

1. ATTARDO, Geoffrey M. - ABD-ALLA, Adly M. M. - ACOSTA-SERRANO, Alvaro - + 24 AUTHORS - MICHÁLKOVÁ, Veronika - + 13 AUTHORS - TAKÁČ, Peter - + 11 AUTHORS - AKSOY, Serap. Comparative genomic analysis of six *Glossina* genomes, vectors of African trypanosomes. In *Genome Biology*, 2019, vol. 20, art. no. 187, 31 p. (2018: 14.028 - IF, Q1 - JCR, 9.867 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1474-7596. Typ: **ADCA**

B. Fosílné šváby sú príkladom neschopnosti vodného hmyzu "výjsť" na súš

Medzinárodný vedecký tím (Slovensko, Česko, Rusko, Libanon, Nemecko, Čína, Japonsko a Ekvádor) pod vedením Dr. Petra Vršanského (ÚZ SAV) prispel k objasneniu genézy vodného hmyzu. Na základe bohatého porovnávacieho materiálu nových skupín vodných švábov z veľmi rozsiahleho časového obdobia (300 až 98 miliónov rokov) a preštudovaním súčasných ekvivalentov (prales UNESCO rezervácie SUMACO v Ekvádore) bola urobená globálna analýza všetkých vodných živočíchov. Podarilo sa zhromaždiť približne 6.000 záznamov o evolúcii vodného hmyzu od karbónu podnes. Výsledkom ich analýzy je, že hmyz nie je (evolučne) schopný z vody vyjsť na súš. V dávnych dobách evolúcie bol pomer vodných skupín ku suchozemským malý, tento pomer sa však stabilizoval počas triasu a už sa takmer 250 miliónov rokov nemení. Väčšina vodných línií živočíchov prežila dodnes, čo sa o suchozemských živočíchoch povedať nedá. U hmyzu tieto údaje vedú k prekvapivému zisteniu. Kým počas celej histórie sme zaznamenali „lezenie“ hmyzu zo súše do vody 236-krát, naspäť, teda z vody na súš, sa to za tento priepastný časový úsek nepodarilo hmyzu ani raz. Toto zistenie je v kontraste so skupinou stavovcov, u ktorých je zdokumentovaný návrat z vody naspäť na súš. Výsledky spochybňujú rozšírenú hypotézu o pôvode suchozemského hmyzu z vodného.



1. VRŠANSKÝ, Peter** - SENDI, Hemen - ARISTOV, Danil* - BECHLY, Günter - MÜLLER, Patrick - ELLENBERGER, Sieghard - AZAR, Dany - UEDA, K. - BARNA, Peter - GARCIA, Thierry. Ancient roaches further exemplify 'no land return' in aquatic insects. In *Gondwana Research*, 2019, vol. 68, p. 22-33. (2018: **6.478** - IF, Q1 - JCR, 3.612 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1342-937X. 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. 2019/ doplňky z r. 2018
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	1 / 0
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	1 / 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)	1 / 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)	30 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	8 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	5 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	2 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	3 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	2 / 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 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. 2018 (zdroj JCR) <i>Počet článkov / doplnky 2017</i>	11 / 0	9 / 0	9 / 0	9 / 0	38 / 0
Podľa SJR z r. 2018 (zdroj Scimago) <i>Počet článkov / doplnky 2017</i>	15 / 0	16 / 0	6 / 0	1 / 0	38 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2018/ doplnky z r. 2017
Citácie vo WOS (1.1, 2.1)	1161 / 81
Citácie v SCOPUS (1.2, 2.2)	207 / 10
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	11 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	121 / 5
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	11
Prednášky a vývesky na domácich vedeckých podujatiach	13

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

1. Gáliková M.: Konferencia "Frontiers in Insect Physiology", České Budejovice, Česká republika, jún 2019. Názov prednášky: In search of a fly glucagon.
2. Derdáková M. Ecological Aspect of Lyme borreliosis in Central Europe, SNÄFF meeting, Ystad 3-5.6.2019, Švédsko
3. Mtierova Z, Václav R, Rusnakova-Taragelova V, Didyk Y, Mangová B, Chvostáč M, Derdáková M. Birds and Borrelia in Central Europe. Lecture series on Ticks and Tick-borne Zoonoses in Eurasia, Vienna, Austria Wednesday, 20th November 2019.
4. Didyk, Y.M., Mangova, B., Akimov, I.A., Derdáková, M. *Ixodes ricinus* and *Dermacentor reticulatus* ticks and tick-borne pathogens. Lecture series on Ticks and Tick-borne Zoonoses in Eurasia, Vienna, Austria Wednesday, 20th November 2019.
5. KAZIMÍROVÁ, Mária. Ticks are rich sources of anti haemostatics: presentation. In International Symposium on Tick Borne Pathogens and Disease / ITPD 2019, Austria.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

1. Gáliková, M.: Prednáška: Vínne mušky a štúdium obezity. Noc Výskumníkov, september 2019
2. Vidlička, Ľ.: *Blattella germanica* vs. *Ectobius vittiventris*. XVI. odborný seminár DDD, Tatry 11.-13.XI.2019, Tatranská Lomnica
3. Žitňan, D.: Plenárna prednáška: Význam štúdia hmyzu pre pochopenie biochemických a fyziologických pochodov u človeka. Biochemické dni 2019, Horný Smokovec, 21.-24.IX.2019

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

1. Gáliková, M.: Biocentrum of the University of Würzburg, Nemecko, júl 2019. Názov prednášky: In search of a fly glucagon.

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2019

2.7.1. Vynálezy, na ktoré bol v roku 2019 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2019

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 2019

b) udelené v roku 2019

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 2019 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	2
Roller Ladislav	KEGA	1
	VEGA	6
Šustek Zbyšek	VEGA	1
Vidlička Ľubomír	KEGA	1
	VEGA	6
Žitňan Dušan	APVV	10
	VEGA	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

Meno pracovníka	Knížné monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Derdáková Markéta	0	0	3	0	0	0	0
Didyk Yuliya	0	0	2	0	0	0	0
Gáliková Martina	0	0	8	0	0	0	0
Kazimírová Mária	0	0	21	7	0	0	0
Klepsatel Peter	0	0	4	0	0	0	0
Mangová Barbara	0	0	1	0	1	0	0
Navara Tomáš	0	0	1	0	0	0	0
Roller Ladislav	0	0	0	3	0	0	0
Semelbauer Marek	0	0	4	0	0	0	0
Stanko Michal	1	0	3	0	6	0	0
Šustek Zbyšek	0	1	3	0	0	0	0
Václav Radovan	0	0	3	0	0	0	0
Vidlička Lubomír	0	0	5	0	10	1	0
Vršanský Peter	0	0	7	0	0	1	1
Žitňan Dušan	0	0	12	0	0	0	0
Spolu	1	1	77	10	17	2	1

2.11. Iné informácie k vedeckej činnosti.

Rok 2019 bol pre Ústav zoológie SAV opäť úspešný v publikačnej oblasti. Pracovníci ÚZ SAV boli autormi a spoluautormi 1 domácej monografie a jednej kapitoly v zahraničnej monografii, článkov publikovaných v Genome Biology (IF 14,028), Gondwana Research (IF 6,478), a 4 x Scientific Reports (IF 4,011). Celkovo sme publikovali takmer 40 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 2019

Forma	Počet k 31.12.2019				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2019					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí						ukončenie úspešnou obhajobou		predčasné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	4	5	2	0	0	0	0	0	0	0	0	0
Denná z iných zdrojov	1	0	0	0	0	0	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	5	5	2	0	0	0	0	0	0	0	0	0
Súhrn	10		2		0		0		0		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2019 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

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 2019 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
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3.4. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou v nadštandardnej dĺžke štúdia

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2019 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 2019 (obhajoba leto 2019)	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
0	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	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
molekulárna biológia	4.2.3	Prírodovedecká fakulta UK
zoológia	4.2.5	Prírodovedecká fakulta UK

Tabuľka 3h Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do spoločných 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)		
RNDr. Ferdinand Šporka, DrSc. (zoológia)		
RNDr. Ferdinand Šporka, DrSc. (všeobecná ekológia a ekológia jedinca a populácií)		
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 2019

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	0	5	0
Celkový počet hodín v r. 2019	39	0	86	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	23
3.	Počet pracovníkov, ktorí pôsobili ako škoolitelia doktorandov (PhD.)	6
4.	Počet školených doktorandov (aj pre iné inštitúcie)	12
5.	Počet oponovaných dizertačných a habilitačných prác	8
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	5
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	3
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 2019 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 2020 (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
Kazimírová Mária	0	1	0
Spolu	0	1	0

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)

RNDr. Ferdinand Šporka, DrSc.

IAD - International Associations for Danube Research (funkcia: člen)

Ing. Zbyšek Šustek, CSc.

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

doc. RNDr. Ľubomír Vidlička, CSc.

Deutsche Gesellschaft für Orthopterologie (funkcia: člen)

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

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

Medzinárodná spolupráca so Stockholm Univerzity (P. Klepsatel, M. Gáliková a prof. Heinrich Dirksen)

1. KLEPSATEL, Peter - GIRISH, Thirnahalli Nagaraj - DIRCKSEN, Heinrich - GÁLIKOVÁ, Martina. Reproductive fitness of *Drosophila* is maximised by optimal developmental temperature. In *Journal of Experimental Biology*, 2019, vol. 222, iss. 10, art. no.UNSP jeb202184. (2018: **3.017** - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0949. Typ: **ADCA**

V rámci medzinárodného projektu „**Evolúcia a ochrana veľkoplošných primárnych ekosystémov**“ (AMBA) boli dosiahnuté tieto výsledky:

Publikovali sme 3 karentované články a ďalšie 2 nekarentované články. Výsledky boli prezentované v hlavných médiách RTVS (rozhlas, TV ranné správy), SME, N, Pravda, Aktuality a vo viacerých ďalších. PV poskytol hlavné Interview pre postoj.sk.

Opísali sme živočíchov, švábov z jantárov v Libanone, Mexiku, Rusku, Myanmar. Zároveň sme aj prvý krát formalizovali ich stopy. Zaznamenali sme prípad najstaršieho mimikry správania.

Do projektu sa zapojil doktorand na Ústave Zoológie SAV Jan Hinkelman ako aj nový doktorand na Ústave Zoológie SAV Hemen Sendi. V rámci projektu pokračoval popularizačný projekt superskoly pre 30 000 žiakov ZŠ.

Prostredníctvom IUCN sa podarilo odkúpiť pre účely ochrany životného prostredia primárny prales (stovky hektárov) v Ekvádore.

1. HINKELMAN, Jan. Spinaeblattina myanmarensis gen. et sp. nov. and Blattothecichnus argenteus ichnogen. et ichnosp. nov. (both Mesoblattinidae) from mid-Cretaceous Myanmar amber. In *Cretaceous Research*, 2019, vol. 99, p. 229-239. (2018: 2.120 - IF, Q1 - JCR, 0.963 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0195-6671. **ADCA**
2. VRŠANSKÝ, Peter** - SENDI, Hemen - ARISTOV, Danil* - BECHLY, Günter - MÜLLER, Patrick - ELLENBERGER, Sieghard - AZAR, Dany - UEDA, K. - BARNA, Peter - GARCIA, Thierry. Ancient roaches further exemplify 'no land return' in aquatic insects. In *Gondwana Research*, 2019, vol. 68, p. 22-33. (2018: **6.478** - IF, Q1 - JCR, 3.612 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1342-937X. Typ: **ADCA**
3. VRŠANSKÝ, Peter - ŠMÍDOVÁ, Lucia - SENDI, Hemen - BARNA, Peter - MÜLLER, Patrick - ELLENBERGER, Sieghard - WU, H. - REN, Xiaoyin - LEI, Xiaojie - AZAR, Dany - ŠURKA, Juraj - SU, T. - DENG, Weiyudong - SHEN, Xianhui - LV, Jun - BAO, Tong - BECHLY, Günter. Parasitic cockroaches indicate complex states of earliest proved ants. In *Biologia*, 2019, vol. 74, no. 1, p. 65-89. (2018: 0.728 - IF, Q4 - JCR, 0.298 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 0006-3088. **ADDA**
4. VRŠANSKÝ, Peter. Santonian cockroaches from Yantardakh amber (Russia: Taimyr) differ in dominance. In *Palaeoentomology*, 2019, vol. 2, iss. 3, p. 297-307. ISSN 2624-2826. **ADEB**
5. VRŠANSKÝ, Peter - KOUBOVÁ, Ivana - VRŠANSKÁ, Lucia - HINKELMAN, Jan - KÚDELA, Matúš - KÚDELOVÁ, Tatiana - LIANG, Jun-Hui - XIA, Fungyuan - LEI, Xiaojie - REN, Xiaoyin - VIDLIČKA, Lubomír - 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. **AEDA**

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 ústavy 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 (Tab. 1). Pre stimuláciu vedeckých pracovníkov sme vypracovali a v súčasnosti zdokonalili model zohľadňujúci impakt faktor a kvartil vedeckých časopisov, na základe ktorého sú pracovníci odmeňovaní. Veľká snaha vedenia ÚZ SAV o vytvorenie čo najlepších pracovných podmienok umožnila prijať v priebehu posledných rokov veľmi schopných a produktívnych vedeckých pracovníkov, ktorí založili svoje laboratóriá kde rozvíjajú aktuálne a progresívne témy. V pôvodnom akčnom pláne sme podrobne opísali aj neduhy týkajúce sa podpory vedeckého výskumu na Slovensku s nádejou, že sa ich postupne podarí odstrániť. Žiaľ 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.

Ukazovateľ	2015	2016	2017	2018
Počet vedeckých a odborných VŠ pracovníkov (FTE)	33	23	26	28
Práce evidované vo vybraných databázach (impaktované práce) ADC, ADD, ADM, ADN	34	48	39	59
Prvoautorstvo / korešp. autor v IF prácach	10	27	20	21
Vedecké práce v ostatných časopisoch „neimpaktované“	19	10	18	7

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. Len ako príklad môžeme spomenúť našu súčasnú zamestnankyňu Martinu Gálikovú PhD, ktorá predtým dlhodobo pracovala na Max Planck Institute, Gottingen a Stockholm University. Táto pracovníčka krátko po nástupe na ÚZ SAV vyhrala v priebehu minulého roka dve súťaže: „Drobnicov memoriál“ (1. cena za najlepšiu prácu v biochémii a molekulárnej biológii pre vedeckého pracovníka do 35 rokov) a „Ženy vo vede“ sponzorované L'ORÉAL UNESCO. Tiež získala „Seal of excellence“ za grant podaný do Horizont 2020; bola ocenená SAV a nominovaná zastupovať mladých vedcov zo SAV na podujatí *Science and Technology in Society Forum* v Kyote; a jej grant podaný do VEGA sa umiestnil na 1. mieste. 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. Treba dúfať, že súčasne schválená mzdová reforma nebude brzdu pri vytváraní 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. V minulom roku dvaja mladí vedeckí pracovníci, ktorí prišli zo zahraničia podali dva granty Maria Currie fellowship v rámci Horizont 2020, z toho jedna uchádzačka získala „Seal of Excellence“. Tiež sme sa zapojili do dvoch konzorcií na Štrukturálne fondy a dvoch projektov LIFE. 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 7 VEGA projektov a 2 spoluriešiteľských projektov. Z APVV sme získali podporu 3 projektov ako hlavní riešitelia 3 projektov ako spoluriešitelia. Riešiteľská kapacita na projektoch z obidvoch agentúr je takto naplnená na 100%. Vzhľadom na to, že základnou povinnosťou každého vedeckého pracovníka je viesť alebo podieľať sa na riešení projektov financovaných predovšetkým z domácich zdrojov (VEGA, APVV) nepotrebujeme vypracovať strategický plán na ich získavanie.

6. Manažment ústavu

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

Pri aplikovaných projektoch sa zameriavame aj na podávanie patentov, ale v poslednom období sme nemali výsledky, ktoré by sa dali patentovať.

8. Financovanie a riadenie výskumných infraštruktúr

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

5.3. Aktualizácia Akčného plánu organizácie v roku 2019

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 obstať 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 byrokraciu, ktorá nás veľmi obmedzuje.

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Oblasť spolupráce: prednášky, výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie:

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

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Biomedicínske centrum SAV

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 praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Sledovanie vodnej fauny - skupiny Cladocera a Copepoda na výskumných plochách v zmysle špecifikácie pre výmenu dát medzi SR a MR - terénny výskum na MP6, MP9, MP10, MP14, MP18, MP23

Zadávateľ výskumného kontraktu: Prírodovedecká fakulta Univerzity Komenského v Bratislave

Začiatok spolupráce: 2015

Ukončenie spolupráce: -

Finančný prínos pre organizáciu (€): 3960

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

1. Spolupráca na vytvorení hodnotiacej schémy pre výpočet ekologického stavu vodných tokov na Slovensku na základe spoločenstiev bentických bezstavovcov využívaný pri monitoringu a hodnotení vodných útvarov povrchových vôd Slovenska
2. Posúdenie vplyvu revitalizačných opatrení na základe štruktúry spoločenstiev bentických bezstavovcov pre projekt zameraný na obnovu a manažment dunajských lužných biotopo
3. Revízia vybraných druhových vlastností druhov čeľade Athericidae pre spresnenie výpočtov ekologického stavu vodných útvarov v environmentálnych podmienkach strednej Európy
4. Odporúčania pre manažment trávnatých plôch s ohľadom na faunu bezstavovcov. Návrhy opatrení na podporu biodiverzity bezstavovcov (podpora hniezdnych možností pre samotárske včely a kutavky, zimovísk a úkrytov pre hmyz a pod.)
5. V rámci výskumu kliešťami prenášaných patogénov pracovníci ústavu ponúkajú službu pre verejnosť, ktorá spočíva v diagnostike pricicaných kliešťov na prítomnosť patogénov, konkrétne: borélií, anaplaziem, ricketsií a babézií. Pracovníci sekcie medicínskej zoológie prezentovali v roku 2019 výsledky výskumu a najnovšie dáta týkajúce sa ekológie kliešťov a ochorení, ktoré prenášajú širokej verejnosti na dvoch podujatiach: “Víkend so SAV 2019” a “Európska noc výskumníkov 2019”. Prezentácia bola zabezpečená formou konzultácií, posterov, letákov a živého materiálu.

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

Názov expertízy: konzultácia pre Mestský úrad Nové Mesto nad Váhom

Adresát expertízy: Mestský úrad Nové Mesto nad Váhom

Spracoval: Ing. Zbyšek Šustek, CSc.

Stručný opis: Problém masového náletu behúnikov domov do vilovej štvrťi

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	6	tlač	10	TV	8
rozhlas	5	internet	9	exkurzie	1
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	8				

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)

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)

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.

Member of Ukrainian Entomological Society (funkcia: member)
Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)
Ukrainian Scientific Society of Parasitologists (funkcia: member)

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)

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. Ferdinand Šporka, DrSc.

Slovenská limnologická 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

Viacerí pracovníci Ústavu zoológie SAV sa zúčastnili na dvoch popularizačných podujatiach určených širokej verejnosti:

1. Víkend so SAV 2019
2. Európska noc výskumníkov 2019

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		14 034
z toho	knihy a zviazané periodiká	13 957
	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		77
v tom	kúpou	0
	darom	77
	výmenou	0
	bezodplatným prevodom	0
	náhradou	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		13 957

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)		157
v tom z r. 1	prezenčné výpožičky	52
	absenčné výpožičky	105
v tom z r. 1	odborná literatúra pre dospelých	117
	výpožičky periodík	40
MVS iným knižniciam		2
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		15
Počet vypracovaných bibliografií		7
Počet vypracovaných rešerší		2

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	51
Návštevníci knižnice spolu (bez návštevníkov podujatí)	12

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 vo vedeckých kolégiách SAV

doc. RNDr. Michal Stanko, DrSc.

- VK SAV pre biologicko-ekologické vedy (člen)

11.4. 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)

11.5. Členstvo v orgánoch VEGA

Ing. Ladislav Roller, PhD.

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

doc. RNDr. Michal Stanko, DrSc.

- Komisia VEGA č. 8 pre poľnohospodárske a drevárske vedy (podpredseda)

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. 2019 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	1290198	1061103	181022	48073	
z toho: mzdy (610)	711196	655667	45302	10227	
vedecká výchova štipendiá (640)	66515	66515			
poistné a príspevok do poisťovní (620)	250043	228574	16025	5444	
tovary a služby (630)	231735	103442	96418	31875	
transfery partnerom projektov (640)	23277		23277		
2. Kapitálové výdavky	16155	13700		2455	
z toho: obstarávanie kapitálových aktív	16155	13700		2455	
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2019 v €)

Typ organizácie (PO)		Z toho kategórie			
Zdroje	Spolu	Kapitálové zdroje	zdroje na mzdy (610)	zdroje na odvody do poisťovní (620)	zdroje na transfery partnerom projektov
1. kapitola SAV (111)	1081008	13700	655667	228574	
z toho: VEGA	70052				
MVTS výskumné projekty	19717				
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	4812				
Vedecká výchova (štipendiá)	66515		66515		
OTAS (630)					
2. ŠF EÚ vr. fin. zo ŠR					
3. medzinárodné grantové projekty					
z toho H2020					
4. iné štátne a verejné zdroje (spolu)	181022		45302	16025	23277
z toho: APVV	181022		45302	16025	23277
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	33328		10227	5444	
z toho: príjmy z prenájmu					
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	33328				

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

V dňoch 23.-25.VIII.2019 sa uskutočnila oprava komory pri ústavnej drevenici na lokalite Podšíp (kataster obce Stankovany, okr. Ružomberok) ležiacej v pamiatkovej zóne. Počas troch dní bola nad štvrtinou komory vymenená stará rozpadajúca sa šindľová krytina za novú šindľovú krytinu. Taktiež bol na ústavnej drevenici renovovaný štít strechy s vyrezaným ozdobným kalichom. Na oprave sa zúčastnilo 5 pracovníkov ÚZ SAV (Roller, Daubnerová, Vidlička, Hromníková, Pecina) a jeden externý pomocník (Furka).



15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2019

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Gáliková Martina

nominácia pre STS Young Leader na STS fóre v Kyote

Oceňovateľ: SAV

Opis: Nominácia zastupovať mladých vedcov zo SAV na podujatí Science and Technology in Society forum v Kyote, Japonsko.

15.1.2. Iné domáce ocenenia

Gáliková Martina

cena Ľudovíta Drobnicu

Oceňovateľ: Slovenská spoločnosť pre biochémiu a molekulárnu biológiu v spolupráci s Ústavom biochémie a mikrobiológie FCHPT STU, Centrom biovied SAV, a občianskym združením Veda a život

Opis: Cena za najlepšiu prácu v biochémií a molekulárnej biológii pre vedeckého pracovníka do 35 rokov (Ocenenie za prácu Metabolism and obesity studies in the model organism Drosophila melanogaster)

Gáliková Martina

L'ORÉAL-UNESCO pre ženy vo vede

Oceňovateľ: L'Oréal Slovensko v spolupráci s UNESCO, SOVVA a SAV

Opis: Ocenenie v kategórii „žena vedkyňa“ do 35 rokov

15.2. Medzinárodné ocenenia

Gáliková Martina

certifikát Seal of Excellence

Oceňovateľ: Európska komisia

Opis: Ocenenie pre excelentné projekty zaslané do Horizon 2020, s cieľom pomôcť nájsť alternatívny zdroj financovania. Ocenenie pre projekt zaslaný v rámci výzvy MSCA.

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

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

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

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
RNDr. Dušan Žitňan, DrSc.

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

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2019****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	0.83
4.	RNDr. Stanislav Kalúz, CSc.	20	0.20
5.	RNDr. Mária Kazimírová, CSc.	100	1.00
6.	Mgr. Peter Klepsatel, PhD	100	1.00
7.	RNDr. Juraj Koči, PhD.	50	0.33
8.	RNDr. Ján Krištofík, CSc.	100	1.00
9.	RNDr. Peter Mašán, PhD.	100	1.00
10.	Mgr. Veronika Michalková, PhD.	100	0.00
11.	Ing. Ladislav Roller, PhD.	100	1.00
12.	Mgr. Veronika Rusňáková Taragel'ová, PhD.	30	0.30
13.	RNDr. Mirko Slovák, CSc.	60	0.60
14.	Ing. Zbyšek Šustek, CSc.	50	0.58
15.	RNDr. Peter Takáč, CSc.	80	0.80
16.	Mgr. Radovan Václav, PhD.	100	1.00
17.	doc. RNDr. Ľubomír Vidlička, CSc.	100	1.00
18.	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. Barbara Mangová, PhD.	100	1.00
6.	RNDr. Tomáš Navara, PhD.	100	1.00
7.	Mgr. Emanuel Procházka, PhD.	100	1.00
8.	Mgr. Diana Selyemová, PhD.	100	1.00
9.	Mgr. Marek Semelbauer, PhD.	100	1.00
10.	Mgr. David Wildridge, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Ján Kočišek	5	0.10
2.	Mgr. Zuzana Mtierová	50	0.20
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Dagmar Práznovská	100	1.00
2.	Ing. Danko Sitarčíková	130	1.30
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	150	1.50
2.	Lýdia Drinková	100	1.00
3.	Mária Gudabová	100	1.00
4.	Daniel Kosa	100	0.16
5.	Jana Kušnírová	100	1.00
6.	Eva Vráblová	100	1.00
Ostatní pracovníci			
1.	Karol Bucsek	100	1.00
2.	Zuzana Pelikánová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Ferdinand Šporka, DrSc.	6.2.2019	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Jasna Kraljik, PhD.	28.2.2019	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Matej Kautman, PhD.	30.6.2019	0.50
2.	Mgr. Tatiana Vaculová, PhD.	31.5.2019	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Jakub Steinhübel	28.2.2019	1.00

Odborní pracovníci ÚSV			
1.	Mária Gudabová	31.12.2019	1.00
2.	Jana Weisová	31.10.2019	1.00

Zoznam doktorandov

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

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

	Meno s titulmi
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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:	-

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: 15920 €	

Dosiahnuté výsledky:

Vínna muška *Drosophila melanogaster* je v súčasnosti mimoriadne populárnym modelom pre štúdium metabolizmu a jeho porúch, k akým patrí napríklad obezita. Cieľom nášho projektu je využiť drozofily na odhalenie vzťahu medzi tukovým metabolizmom, rozmnožovaním, a úlohou pohlavných hormónov v synchronizácii týchto procesov v závislosti od nutričných podmienok.

V r. 2019 sme zahájili riešenie tohto projektu, zariadili laboratórium nevyhnutným spotrebným materiálom a chemikáliami potrebnými na chov *D. melanogaster*, meranie metabolických parametrov (ako napr. množstvo telesného tuku, glykogénu, proteínov) a génovej expresie. Získali sme časť línii potrebných pre tento projekt, genetickými kríženiami sme zrekombovali základné transgénne konštrukty, a vytvorili tak stabilné rekombinantné transgénne línie pre náš výskum. Podľa plánu sme vykonali prvotné experimenty.

Okrem iného sme v tejto etape projektu skúmali vzťah medzi diétou počas dospievania a dospelosti, rozmnožovaním, a tukovým metabolizmom. Časť našich experimentov testovala tzv. thrifty phenotype hypotézu, podľa ktorej nedostatočná výživa počas skorých vývinových štádií u ľudí vedie k dlhodobému programovaniu metabolizmu na „šetreniu“ energie, čo v prípade zlepšenia nutričných podmienok vedie k obezite v dospelosti. Naše výsledky ukázali, že k podobnej situácii dochádza i u vinných mušiek. Ďalej sme preto skúmali vzťah medzi diétou v skorých a neskorších štádiách života a reprodukčnou zdatnosťou. Hypotéza o thrifty phenotype totiž predpokladá, že diétou vyvolané dlhodobé zmeny v tukovom metabolizme sú adaptívne, teda poskytujú výhodu v prípade, že organizmus je v dospelosti vystavený podobným nutričným podmienkam ako počas vývinu. Naša práca však prekvapivo ukázala, že táto časť hypotézy o thrifty phenotype u drozofil neplatí. V súčasnosti pracujeme na publikovaní týchto prvých výsledkov nášho projektu.

Pripravovaný manuskript:

Klepsatel P., Knoblochová D., Girish T.N., Dirksen H., Gáliková M. Testing the predictive adaptive response to developmental diet in *Drosophila*.

Publikované výstupy:

GÁLIKOVÁ, Martina - KLEPSATEL, Peter - DIRCKSEN, Heinrich. Metabolism and obesity studies in the model organism *Drosophila melanogaster*. In Drobnicov memoriál 10. ročník. Stará Lesná, 11. – 13. september 2019 : zborník príspevkov a program. - Bratislava : Centrum biovied - Ústav molekulárnej fyziológie a genetiky, Slovenská akadémia vied, 2019, s. 35-36. ISBN 978-80-972752-6-6.(Drobnicov memoriál). Typ: AEDA

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:	LIFE: 3750 €

Domáce projekty

Programy: VEGA

1.) Vplyv krajiny a regulácií na spoločenstvá bentosu tečúcich vôd (*The influence of landscape and regulations on the freshwater benthic macroinvertebrates communities*)

Zodpovedný riešiteľ:	Igor Kokavec
Trvanie projektu:	1.1.2016 / 31.12.2019
Evidenčné číslo projektu:	1/0119/16
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 4378 €

2.) 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: 2969 €

Dosiahnuté výsledky:

3.) 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: 5960 €

Dosiahnuté výsledky:

4.) Detailná identifikácia a charakterizácia *Borrelia burgdorferi* sensu lato a *Borrelia miyamotoi* pomocou multilokusovej sekvenčnej typizácie (MLST).

Zodpovedný riešiteľ: Veronika Rusňáková Taragel'ová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: VEGA 2/0119/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9653 €

Dosiahnuté výsledky:

5.) 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: 2220 €

Dosiahnuté výsledky:

6.) Neuropeptidy regulujúce inerváciu pohlavných orgánov a sexuálne správanie bodaviek tsetse (*Neuropeptides regulating innervation of the genital organs and sexual behavior of tsetse flies*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0119/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9289 €

Dosiahnuté výsledky:

7.) Dôležitosť heterogenity reprodukčného biotopu pre reprodukčné investície a prežívanie (*Importance of reproductive habitat heterogeneity in reproductive allocation and survival*)

Zodpovedný riešiteľ: Radovan Václav
Trvanie projektu: 1.1.2016 / 31.12.2019
Evidenčné číslo projektu: 2/0008/16
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Španielsko: 1
Čerpané financie: VEGA: 4457 €

Dosiahnuté výsledky:

Valera, F., Václav, R., Calero-Torralbo, M. Á., Martínez, T., & Veiga, J. (2019). Natural cavity restoration as an alternative to nest box supplementation. *Restoration ecology*, 27(1), 220-227.

8.) Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku (*Ecological and ethological research of invasive cockroach *Ectobius vittiventris* (Blattaria) in Slovakia*)

Zodpovedný riešiteľ: Ľubomír Vidlička
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0139/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 6564 €

Dosiahnuté výsledky:

9.) 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: 21642 €

Dosiahnuté výsledky:

Programy: APVV

10.) 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: 44281 €

Dosiahnuté výsledky:

11.) 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: 20000 €

Dosiahnuté výsledky:

12.) 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: 47236 €

Dosiahnuté výsledky:

13.) Drobné cicavce ako potenciálny zdroj zoonotických baktérií a rezistencie na antibiotiká (*Small mammals as a potential source of zoonotic bacteria and resistance to antibiotics*)

Zodpovedný riešiteľ: Michal Stanko
Zodpovedný riešiteľ v organizácii SAV: Markéta Derdáková
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0274
Organizácia je koordinátorom projektu: nie
Koordinátor: Parazitologický ústav SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 2825 €

Dosiahnuté výsledky:

14.) Zníženie plodnosti a kontrola trypanozomiáz bodaviek tsetse aplikáciou metód sterility a molekulárnych metód. (*Reduction of fecundity and trypanosomiasis control of tsetse flies by the application of sterile insect techniques and molecular methods*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 1.7.2016 / 30.6.2019
Evidenčné číslo projektu: APVV-15-0604
Organizácia je koordinátorom projektu: nie
Koordinátor: Scientica,s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 10993 €

Dosiahnuté výsledky:

15.) Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa (*The role of neuropeptides and receptors in regulation of pathogen transfer from ticks to their hosts*)

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0556
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 27049 €

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 STANKO, Michal - SLOVÁK, Mirko. História výskumov ekológie kliešťov : na území Česka a Slovenska (do roku 2000). Vydanie prvé. Košice : Parazitologický ústav SAV ; Bratislava : Ústav zoológie SAV : VEDA, vydavateľstvo Slovenskej akadémie vied, 2019. 544 s. ISBN 978-80-224-1752-5.

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

- ABA01 ANETTOVÁ, Lucia - KAZIMÍROVÁ, Mária. Human Babesiosis: Ecoepidemiology, Diagnosis and Treatment : Chapter 4. In Vector-Borne Diseases & treatment. Volumen 3. - Las Vegas, USA : Open Access eBooks, 2019, chapter 4, p. 44-72. ISBN 978-93-87500-52-5. Dostupné na internete: <info@openaccessebooks.com / openaccessebooks.com/vector-borne-diseases-treatment/human-babesiosis-ecoepidemiology-diagnosis-and-treatment.pdf>.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 ATTARDO, Geoffrey M. - ABD-ALLA, Adly M. M. - ACOSTA-SERRANO, Alvaro - + 24 AUTHORS - MICHALKOVÁ, Veronika - + 13 AUTHORS - TAKÁČ, Peter - + 11 AUTHORS - AKSOY, Serap. Comparative genomic analysis of six Glossina genomes, vectors of African trypanosomes. In Genome Biology, 2019, vol. 20, art. no. 187, 31 p. (2018: 14.028 - IF, Q1 - JCR, 9.867 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1474-7596. Dostupné na internete: <https://genomebiology.biomedcentral.com/articles/10.1186/s13059-019-1768-2>.
- ADCA02 BABAEIAN, Esmail - MAŠÁN, Peter - HALLIDAY, Bruce. Review of the genus Holostapsis Kolenati, 1858 (Acari: laelapidae). In Zootaxa, 2019, vol. 4590, no. 3, p. 301-341. (2018: 0.990 - IF, Q3 - JCR, 0.603 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1175-5334.(VEGA 2/0036/18 : 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).
- ADCA03 CONROY-BEAM, Daniel** - BUSS, David M.* - ASAO, Kelly - + 85 AUTROV - PROKOP, Pavol - + 15 AUTROV - YOO, Gyesook - ZÁTKOVÁ, Marta - ZUPANČIČ, Maja. Contrasting Computational Models of Mate Preference Integration Across 45 Countries. In Scientific Reports, 2019, vol. 9, no., article number: 16885. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.
- ADCA04 CONROY-BEAM, Daniel** - RONEY, James R.* - PROKOP, Pavol - ZUPANČIČ, Maja. Assortive mating and the evolution of desirability covariation. In Evolution and Human Behavior, 2019, vol. 40, no. 5, p. 479-491. (2018: 2.959 - IF, Q1 - JCR, 1.866 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1090-5138.
- ADCA05 CSANÁDY, Alexander** - STANKO, Michal - MOŠANSKÝ, Ladislav. Are there

- differences in the morphology of communal mounds of overwintering mound-building mice (*Mus spicilegus* Petényi, 1882) in Slovakia? In *Acta Zoologica Academiae Scientiarum Hungaricae*, 2019, vol. 65, no. 2, p. 167-180. (2018: 0.421 - IF, Q4 - JCR, 0.384 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1217-8837.(APVV-14-0274 : Drobné cicavce ako potenciálny zdroj zoonotických baktérií a rezistencie na antibiotiká. APVV -15-0134 : Genetická diverzita vybraných medicínsky dôležitých nových a novo sa objavujúcich patogénov so zoonóznym potenciálom.).
- ADCA06 ČIŽMÁR, Daniel - ROLLER, Ladislav - PILLEROVÁ, Miriam - SLÁMA, Karel - ŽITŇAN, Dušan. Multiple neuropeptides produced by sex-specific neurons control activity of the male accessory glands and gonoducts in the silkworm *Bombyx mori*. In *Scientific Reports*, 2019, vol. 9, art. no. 2253, 13 pp. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.(APW-14-0556 : Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa. APVV-16-0395 : Úloha neuropeptidov a ich receptorov pri regulácii aktivity endokrinných a reprodukčných orgánov priadky morušovej (*Bombyx mori*). VEGA-2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov).
- ADCA07 ERMILOV, Sergey G. - KALÚZ, Stanislav. New and interesting galumnoid mites (Acari, Oribatida, Galumnoidea) from Malaysia. In *Systematic and Applied Acarology*, 2019, vol. 24, no. 9, p. 1711-1723. (2018: 1.732 - IF, Q2 - JCR, 0.808 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1362-1971.(VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku).
- ADCA08 HINKELMAN, Jan. *Spinaeblattina myanmarensis* gen. et sp. nov. and *Blattoothecichnus argenteus* ichnogen. et ichnosp. nov. (both Mesoblattinidae) from mid-Cretaceous Myanmar amber. In *Cretaceous Research*, 2019, vol. 99, p. 229-239. (2018: 2.120 - IF, Q1 - JCR, 0.963 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0195-6671.(APVV-0436-12 : Evolučné zákonitosti indikované článkonožcami a ich príbuznými // Evolúcia článkonožcov a ich príbuzných. VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku. VEGA 2/0042/18 : Šváby zo svetových jantárov II).
- ADCA09 HOI, Herbert - DAROLOVÁ, Alžbeta** - KRIŠTOFÍK, Ján - POLÁČEK, Miroslav - MAJTÁN, Juraj - ZEMAN, M. - OKULIAROVÁ, Monika - TURČOKOVÁ, Lucia - KNAUER, Felix. Covariation between eggshell colouration and eggshell bacteria abundance and egg characteristics in blackbirds. In *Ethology Ecology & Evolution*, 2019, vol. 31, p. 249-265. (2018: 1.038 - IF, Q3 - JCR, 0.424 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0394-9370.
- ADCA10 KALÚZ, Stanislav - ERMILOV, Sergey G. A new genus of Pulaeini (Acari: Prostigmata: Cunaxidae) from South–East Asia. In *ZOOTAXA*, 2019, vol. 4619, no. 2, p. 382-390. (2018: 0.990 - IF, Q3 - JCR, 0.603 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1175-5334.(VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku).
- ADCA11 KALÚZ, Stanislav - LITERÁK, I. A description of the male of *Geckobiella donnae* Paredes-Leon, Klompen et Perez, 2012 (Acari: Pterygosomatidae) from captive iguanas in Honduras. In *Folia Parasitologica*, 2019, vol. 66, art. no. 003, 6 pp. (2018: 1.405 - IF, Q3 - JCR, 0.668 - SJR, Q3 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0015-5683.(VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku).
- ADCA12 KLEPSATEL, Peter - WILDRIDGE, D. - GÁLIKOVÁ, Martina. Temperature induces changes in *Drosophila* energy stores. In *Scientific Reports*, 2019, vol. 9, iss.

- 1, art. no. 5239. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.(APVV-14-0556 : Funkcia neuropeptidov and ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa).
- ADCA13 KLEPSATEL, Peter - GIRISH, Thirnahalli Nagaraj - DIRCKSEN, Heinrich - GÁLIKOVÁ, Martina. Reproductive fitness of *Drosophila* is maximised by optimal developmental temperature. In *Journal of Experimental Biology*, 2019, vol. 222, iss. 10, art. no.UNSP jeb202184. (2018: 3.017 - IF, Q1 - JCR, 1.482 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0022-0949.(APVV-14-0556 : Funkcia neuropeptidov and ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa).
- ADCA14 MARCINKOWSKA, U. M** - RANTALA, Markus J.* - LEE, Anthony J. - +10 AUTOROV - PROKOP, Pavol - + 5 AUTOROV - DIXSON, Barnaby J. W.**. Women's preferences for men's facial masculinity are strongest under favorable ecological conditions. In *Scientific Reports*, 2019, vol. 9, article number: 3387. (2018: 4.011 - IF, Q1 - JCR, 1.414 - SJR, Q1 - SJR, karentované - CCC). (2019 - Current Contents, WOS, SCOPUS). ISSN 2045-2322.
- ADCA15 MAŠÁN, Peter - BABAEIAN, Esmaeil. A new myrmecophilous mite species of the genus *Cosmolaelaps* Berlese, 1903 (Acari, Mesostigmata, Laelapidae) from Central Europe (Slovakia). In *Zootaxa*, 2019, vol. 4647, no.1, p. 495-505. (2018: 0.990 - IF, Q3 - JCR, 0.603 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1175-5334.(VEGA 2/0036/18 : 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).
- ADCA16 PROKOP, Pavol** - FANČOVIČOVÁ, Jana. The perception of toxic and non-toxic plants by children and adolescents with regard to gender: implications for teaching botany. In *Journal of Biological Education*, 2019, vol. 53, no. 4, p. (2018: 0.844 - IF, Q4 - JCR, 0.309 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0021-9266.
- ADCA17 PROKOP, Pavol** - FANČOVIČOVÁ, Jana - PIPÍŠKA, Martin. Flower closure enhances pollen viability in *Crocus discolor* G. Reuss. In *Flora : morphology, distribution, functional ecology of plants*, 2019, vol. 250, no., p. 68-71. (2018: 1.423 - IF, Q3 - JCR, 0.551 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0367-2530.
- ADCA18 PROKOP, Pavol**. Male preferences for nuptial gifts and gift weight loss amongst the nursery web spider, *Pisaura mirabilis*. In *Journal of Ethology*, 2019, vol. 37, no., p. 363-370. (2018: 1.423 - IF, Q2 - JCR, 0.559 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0289-0771.
- ADCA19 RAHAFAR, Arash** - DIAZ-MORALES, Juan F. - JANKOWSKI, Konrad S. - PROKOP, Pavol - CASTELLANA, Ina - LINKE, Magdalena - RANDLER, Christoph. Sleep timing is linked to sociosexuality: Evidence from German, Polish, Slovak, and Spanish females. In *Time and Society*, 2019, vol. 28, iss. 3, p. 1-16. (2018: 1.727 - IF, Q2 - JCR, 0.322 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0961-463X.
- ADCA20 ŠÁLEK, Martin - POPRACH, Karel - OPLUŠTIL, Libor - MELICHAR, David - MRÁZ, Jakub - VÁCLAV, Radovan. Assessment of relative mortality rates for two rapidly declining farmland owls in Czech Republic (Central Europe). Šálek Martin, Poprach Karel, Opluštil Libor, Melichar David, Mráz Jakub, Václav Radovan. In *European Journal of Wildlife Research*, 2019, vol. 65, no. 1, art. no. 19, 11 pp. (2018: 1.184 - IF, Q2 - JCR, 0.579 - SJR, Q2 - SJR, karentované - CCC). (2019 -

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- AED04 KALÚZ, Stanislav. Pôdne roztoče (Acari) – Soil mites (Acari). In *STANOVÁ, V. - VICENÍKOVÁ, Andrea. Biodiverzita Abrodu - stav, zmeny a obnova*. - Bratislava : Daphne-Inštitút aplikovanej ekológie, 2003, s. 201-208. ISBN 899133-0-0.
Citácie:
1. [1.1] MASAN, Peter. A revision of the family Ameroseiidae (Acari, Mesostigmata), with some data on Slovak fauna. In ZOOKEYS. ISSN 1313-2989, 2017, vol., no. 704, pp. 1-228., Registrované v: WOS
- AED05 KALÚZ, Stanislav. Pôdne roztoče (Acarina). In *Fauna Devínskej Kobyly*. Editor Oto Majzlan. - Bratislava : Asociácia priemyslu a ochrany prírody, 2005, s. 44-55. ISBN 80-968217-1-7.
Citácie:
1. [1.1] MASAN, Peter. A revision of the family Ameroseiidae (Acari, Mesostigmata), with some data on Slovak fauna. In ZOOKEYS. ISSN 1313-2989, 2017, vol., no. 704, pp. 1-228., Registrované v: WOS
- AED06 KALÚZ, Stanislav. Roztoče (Acari) PR Ostrova Kopáč. In *Príroda ostrova Kopáč*. Oto Majzlan a kol. - Bratislava : Fytoterapia OZ pri Pedagogickej fakulte UK Bratislava, 2007, s. 53-66. ISBN 978-80-969718-7-9.
Citácie:
1. [1.1] MASAN, Peter. A revision of the family Ameroseiidae (Acari, Mesostigmata), with some data on Slovak fauna. In ZOOKEYS. ISSN 1313-2989, 2017, vol., no. 704, pp. 1-228., Registrované v: WOS

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

- AEDA01 PROKOP, Pavol. Neformálne prírodovedné vzdelávanie. In *Acta Facultatis Paedagogicae Universitatis Tyrnaviensis : Série B-prírodné vedy*. - Trnava :

Trnavská univerzita, 2002, 2007, supplementum 1, s. 3-68.

Citácie:

1. [1.1] PRAZAKOVA, Martina - PAVLASOVA, Lenka. WHAT DO CHILDREN DO AT SUMMER CAMPS? THE ANALYSIS OF GEOSCIENCE CAMPS' PROGRAMMES. In PROJECT-BASED EDUCATION IN SCIENCE EDUCATION: EMPIRICAL TEXTS XV, 2018, vol., no., pp. 53-61., Registrované v: WOS

2. [3.1] FANČOVIČOVÁ, J. - HORNÁČKOVÁ, A. - BAČOVÁ, D. Chápanie významu zoologických záhrad súčasnou spoločnosťou: sú zoologické záhrady miestom zábavy? = Understanding the importance of zoos by today's society: are zoos a place of entertainment?. In DYTRTOVÁ, R. (eds.) - SANDANUSOVÁ, A. (eds.) - JIRSÁKOVÁ, J. (eds.) - JORDÁNOVÁ, B. (eds.) Výzkum v přípravě učitelů přírodovědných, zemědělských a příbuzných oborů : sborník statí z XII. ročníku konference EDUCO : 23.-25. března 2017. - 1. vyd. - Praha: Česká zemědělská univerzita v Praze - Institut vzdělávání a poradenství, 2017. - ISBN 978-80-213-2784-9, s. 25-35.

3. [4.1] PRAŽÁKOVÁ, M. - RUŽEK, I. - PAVLASOVÁ, L. Činnosti žáků během geovědních táborů, analýza programů. In DUCHOVIČOVÁ, J. - GUNIŠOVÁ, D. - KOZÁROVÁ, N. - KOLENÁKOVÁ, R. (eds.) Inovativne trendy v odborových didaktikách v kontexte požiadaviek praxe : zborník štúdií z medzinárodnej vedeckej konferencie. - 1. vyd. - Nitra: Univerzita Konštantína Filozofa v Nitre - Pedagogická fakulta, 2018. - ISBN 978-80-558-1277-9, s. 98-105

AEDA02 ROLLER, Ladislav. Príspevok k poznaniu hrubopásych (Hymenoptera, Symphyta) a rohačkovitých (Diptera, Sciomyzidae) prírodnej pamiatky Mitická slatina. In Zborník výsledkov inventarizačného výskumu prírodnej pamiatky Mitická slatina, p. 32-36.

Citácie:

1. [3.1] HARIS A. Sawflies from Külső-Somogy, South-West Hungary (Hymenoptera: Symphyta) IN Natura Somogyiensis, 2018, vol 32: 147-164

2. [3.1] HARIS A. Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta). IN Natura Somogyiensis, 2018, vol, 31, p. 45-62. DOI:10.24394/NatSom.2018.31.45

AEDA03 ROLLER, Ladislav. Hrubopáse blanokřídlavce (Hymenoptera, Symphyta) Tematínských vrchov – zhrnutie faunistického výskumu. In Najvýznamnejšie prírodné hodnoty Tematínských vrchov : zborník výsledkov inventarizačného výskumu územia európskeho významu Tematínske vrchy. - Trenčín : KOZA, 2006, p. 53-55.

Citácie:

1. [3.1] HARIS A. Sawflies from Külső-Somogy, South-West Hungary (Hymenoptera: Symphyta) IN Natura Somogyiensis, 2018, vol 32: 147-164..

2. [3.1] HARIS A. Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta). IN Natura Somogyiensis, 2018, vol, 31, p. 45-62. DOI:10.24394/NatSom.2018.31.45

BBA Kapitoly v odborných knižných publikáciách vydané v zahraničných vydavateľstvách

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

Citácie:

1. [1.1] BARANOVA, Beata - FAZEKASOVA, Danica - MANKO, Peter - JASZAY,

Tomas. Variations in Carabidae assemblages across the farmland habitats in relation to selected environmental variables including soil properties. In JOURNAL OF CENTRAL EUROPEAN AGRICULTURE. ISSN 1332-9049, 2018, vol. 19, no. 1, pp. 1-23., Registrované v: WOS
2. [1.2] VICIAN, Vladimír - SVITOK, Marek - MICHÁLKOVÁ, Eva - LUKÁČIK, Ivan - STAŠIOV, Slavomír. Influence of tree species and soil properties on ground beetle (Coleoptera: Carabidae) communities. In Acta Oecologica. ISSN 1146609X, 2018-08-01, 91, pp. 120-126., Registrované v: SCOPUS

***BDEB Odborné práce v zahraničných nekarentovaných časopisoch neimpaktovaných**

BDEB01 ROLLER, Ladislav. New records of sawflies (Hymenoptera, Symphyta) from Slovakia. In Entomological problems, 1993, vol. 24, no. 2, p. 81-84. ISSN 0071-0792.

Citácie:

1. [3.1] *HARIS A. Sawflies from Külső-Somogy, South-West Hungary (Hymenoptera: Symphyta) IN Natura Somogyiensis, 2018, vol 32: 147-164*
2. [3.1] *HARIS A. Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta). IN Natura Somogyiensis, 2018, vol, 31, p. 45-62. DOI:10.24394/NatSom.2018.31.45*

BDF Odborné práce v ostatných domácich časopisoch

BDF01 KALÚZ, Stanislav. Pôdne roztoče (Acarina) rôznych habitatov zaplavovaných lúk na Záhorí. In Sborník přírodovědného klubu v Uherskem Hradišti, 2000, vol. 5, p. 174-183.

Citácie:

1. [1.1] *MASAN, Peter. A revision of the family Ameroseiidae (Acari, Mesostigmata), with some data on Slovak fauna. In ZOOKEYS. ISSN 1313-2989, 2017, vol., no. 704, pp. 1-228., Registrované v: WOS*

BDF02 ROLLER, Ladislav. Zubačkovité (Megalodontesidae) hrubopáse xerothermov. In Hmyz, 2000, roč., č. 1, s. 17-18.

Citácie:

1. [3.1] *HARIS A. Sawflies from Külső-Somogy, South-West Hungary (Hymenoptera: Symphyta) IN Natura Somogyiensis, 2018, vol 32: 147-164*
2. [3.1] *HARIS A. Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta). IN Natura Somogyiensis, 2018, vol, 31, p. 45-62. DOI:10.24394/NatSom.2018.31.45*

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. Sawflies from Külső-Somogy, South-West Hungary (Hymenoptera: Symphyta) IN Natura Somogyiensis, 2018, vol 32: 147-164*
2. [3.1] *HARIS A. Second contribution to the sawflies of Belső Somogy (Hymenoptera: Symphyta). IN Natura Somogyiensis, 2018, vol, 31, p. 45-62. DOI:10.24394/NatSom.2018.31.45*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

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

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Modelové druhy

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Transgénne a molekulárne postupy u hmyzu a kliešťov

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Katedra biochémie

Semestrálne cvičenia:

Mgr. Dominika Hromníková

Názov semestr. predmetu: Cvičenia z molekulárnej biológie

Počet hodín za semester: 26

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

Mgr. Vanda Klöcklerová

Názov semestr. predmetu: Základné cvičenie z molekulárnej biológie

Počet hodín za semester: 26

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

Mgr. Matej Medla

Názov semestr. predmetu: Základné cvičenie z molekulárnej biológie

Počet hodín za semester: 26

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

RNDr. Tomáš Navara, PhD.

Názov semestr. predmetu: Cvičenie z hydrobiológie - Trichoptera

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Modelové druhy

Počet hodín za semester: 6

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

Semináre:

Terénne cvičenia:

Individuálne prednášky:

RNDr. Tomáš Navara, PhD.

Názov semestr. predmetu: Hydrobiológia - Trichoptera

Počet hodín za semester: 1

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

RNDr. Peter Takáč, CSc.

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

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Vybrané kapitoly

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

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

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
Česko					Martina Gáliková	2
Nemecko					Martina Gáliková	3
Rakúsko					Alžbeta Darolová	42
Švédsko					Martina Gáliková	2
Počet vyslaní spolu					4	49

(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
Švédsko					Prof. Heinrich Dirksen	7
Počet prijatí spolu					1	7

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	FIPh2019	Martina Gáliková	5
Grécko	IHM 2019	Martina Gáliková	8
		Ladislav Roller	8
Japonsko	STSF 2019	Martina Gáliková	6
Nemecko	TTD 2019	Markéta Derdáková	3
		Yuliya Didyk	3
		Diana Selyemová	3
Rakúsko	ITPD 2019	Mária Kazimírová	4
	LTTZE	Markéta Derdáková	1
		Yuliya Didyk	1
		Barbara Mangová	1
Švajčiarsko	EDRC 2019	Martina Gáliková	6
Švédsko	SNÄFF 2019	Markéta Derdáková	3
Veľká Británia	AAR 2019	Radovan Václav	3
Spolu	9	14	55

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

Skratky použité v tabuľke C:

AAR 2019 - Advances in Avian Reproduction: Nests, Eggs & Incubation

EDRC 2019 - European Drosophila Research Conference

FIPh2019 - Frontiers in Insect Physiology

IHM 2019 - Insect Hormones Meeting

ITPD 2019 - International Symposium on Tick-borne Pathogens and Disease (ITPD) 2019

LTTZE - Lecture series on Ticks and Tick-borne Zoonoses in Eurasia

SNÄFF 2019 - SNÄFF meeting Ystad Saltsjöbad

STSF 2019 - Science and Tehnology in Society Forum

TTD 2019 - 13th International Symposium on Ticks and Tick-borne Diseases

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

Meno	Spoluautori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MVDr. Markéta Derdáková, PhD.	Didyk, Mangová, Vidlička, Pecina, Selyemová, Rusňáková Taragel'ová	iné	Prezentácia UZ SAV na Noci výskumníkov	Bratislava, Stará tržnica	27.9.2019
MVDr. Yuliya Didyk, PhD.		RO	Rozhovor v rádiu "Nove Radio" - "O kliešťach a ich patogenocho vo svete"	Kyjev (Ukrajina)	12.7.2019
MVDr. Yuliya Didyk, PhD.	Barbara Mangová Mgr., PhD.	iné	Víkend so SAV 2019 "Klieste medzi nami"	Primaciálne námestie v Bratislave	21.6.2019
MVDr. Yuliya Didyk, PhD.	Barbara Mangová Mgr., PhD., Marketa Derdakova MVDr., PhD.	iné	Europska noc výskumníkov 2019	Bratislava	27.9.2019
Mgr. Martina Gáliková, PhD.		PB	Nov výskumníkov: Vínne mušky a štúdium obezity	Lab.cafe, Bratislava	27.9.2019
Mgr. Martina Gáliková, PhD.		PB	panelová diskusia Moja kariérna cesta, súčasť workshopu Naštartuj svoju karéru vo vede	Vedecký park Univerzity Komenského v Bratislave	17.10.2019
Mgr. Martina Gáliková, PhD.		TL	rozhovor pre coverstory pre kampaň Inovatívna medicína (tlač, internet, atď.): Drosophila ako model pre štúdium obezity spôsobenej nedostatkom pohlavných hormónov	niekoľko komunikačných kanálov, vrátane http://project.mediaplanet.com/22933.pdf , tlačaná forma: Plus 1 deň, nemocnice, atď	28.11.2019
Mgr. Martina Gáliková, PhD.		TL	rozhovor pre denník Hospodárske noviny: Genetická, ktorá skúma súčasný postrach ľudstva: Vieme stvoriť obézne mušky	Hospodárske noviny, https://science.hnonline.sk/biologia-a-chemia/2037658-geneticka-ktora-skuma-sucasny-postrach-ludstva-vieme-stvorit-obezne-musky	8.11.2019
Mgr. Martina Gáliková, PhD.		TL	rozhovor pre denník SME: Biologička: Aj muchy môžu byť obézne. Skúmame na nich choroby, ktoré trápia ľudí https://tech.sme.sk/c/2215491/biologicka-geny-obezity-existuju-skumame-ich-na	SME, https://tech.sme.sk/c/2215491/biologicka-geny-obezity-existuju-skumame-ich-na-vinnych-muskach.html	26.9.2019

Mgr. Martina Gáliková, PhD.		IN	rozhovor pre portál Startitup: Vedkyňa Martina Gáliková: Postavenie žien vo vede sa jednoznačne zlepšuje	https://www.startitup.sk/vedkyňa-martina-galikova-postavenie-zien-vo-vede-sa-jednoznacne-zlepsuje/	4.10.2019
Mgr. Martina Gáliková, PhD.		IN	rozhovor pre portál Veda na dosah: Projekt L'Oréal-UNESCO Pre ženy vo vede ocenil dve slovenské výskumníčky	https://vedanadosah.cvtsr.sk/projekt-loreal-unesco-pre-zeny-vo-vede-ocenil-dve-slovenske-vyskumnicky	7.10.2019
Mgr. Martina Gáliková, PhD.		iné	tlačová konferencia k Noci výskumníkov	Lab.cafe, Bratislava	26.9.2019
RNDr. Mária Kazimírová, CSc.		TV	Nezvyčajný výskyt kliešťov	TV JOJ	27.2.2019
Mgr. Barbara Mangová, PhD.	Didyk, Derdáková, Rusnáková - Taragel'ová, Selyemová, Vidlička, Pecina	iné	Európska noc výskumníkov	Stará tržnica, Bratislava	27.9.2019
Mgr. Barbara Mangová, PhD.	Yuliya Didyk	iné	Víkend so SAV	Primaciálne námestie Bratislava	21.6.2019
Mgr. Peter Pecina		iné	Prezentácia ÚZ SAV na Noci výskumníkov	Bratislava, Stará tržnica	27.9.2019
prof. PaedDr. Pavol Prokop, DrSc.		RO	Rozhovor o správaní zvierat a človeka	RTVS - Nočná pyramída	7.11.2019
prof. PaedDr. Pavol Prokop, DrSc.	Mária Babinská	RO	Relácia - Veda, výskum, objavy, patenty	Rádio Regina	11.3.2019
prof. PaedDr. Pavol Prokop, DrSc.	Otakar Horák	TL	Študentky uprednostňovali vysoké podpätky, keď sa mali stretnúť s atraktívnym mužom	Denník N	6.9.2019
Mgr. Marek Semelbauer, PhD.		TV	Vyjadrenie k vymieraniu hmyzu, ranné správy RTVS	RTVS, https://www.rtvs.sk/tel-evizia/archiv/14026/180077	19.2.2019
Mgr. Marek Semelbauer, PhD.	Andrej Barát	IN	Niektoré muchy napodobňujú včely a osy	https://tv.pravda.sk/relacie/kultura/epizoda/1429-niektore-muchy-napodobnuju-vcely-a-osy	15.5.2019
Mgr. Marek Semelbauer, PhD.	Andrej Barát	IN	Nóri postavili včelám diaľnicu, Slováci prvé bufety	Pravda, https://zurnal.pravda.sk/reportaz/clanok/511903-nori-postavili-vcelam-dialnicu-slovaci-prve-bufety/?fbclid=IwAR3OmQJeLpIxtaObHOo9Qq_cIF3G4TqX	14.5.2019
Mgr. Marek Semelbauer, PhD.	Andrej Barát	IN	Zečák. Divočina v mestskom trávniku	denník Pravda, https://cestovanie.pravda.sk/cestovny-ruch/clanok/519278-zecak-divocina-v-mestskom-travniku/	16.7.2019

Mgr. Marek Semelbauer, PhD.	Dan Himič	TL	Lietajúce medvedíky	Téma 15/2019	12.4.2019
Mgr. Marek Semelbauer, PhD.	Jana Májeková	EX	Prírodovedná exkurzia so zameraním na hmyz	Areál SAV	18.5.2019
Mgr. Marek Semelbauer, PhD.	Katarína Klímová	PB	Opel'ovače v meste	Karloveské centrum kultúry	4.10.2019
Mgr. Marek Semelbauer, PhD.	Katka Klimová	PB	Mesto ako útočisko opel'ovačov	Zrkadlová sieň, Bratislava	4.4.2019
Mgr. Marek Semelbauer, PhD.	Katka Klímová	PB	Opel'ovače v meste	výmenníková stanica na sídlisku SEVER, Svätoplukova ulica, Pezinok	18.6.2019
Mgr. Marek Semelbauer, PhD.	Martin Jurčo	TL	Rozhovor o opel'ovačoch	Novinky z radnice, Trnava	25.3.2019
Mgr. Marek Semelbauer, PhD.	Petra Ježeková	PB	Ako mŕtve stromy, slimáky a holá pôda pomáhajú opel'ovačom	Zvolen, Technická univerzita	29.4.2019
Mgr. Marek Semelbauer, PhD.	Richard Filipko	TL	Ako prichádzame o hmyz	Téma 12/2019	22.3.2019
Ing. Zbyšek Šustek, CSc.		RO	Hmyzie škodce v domácnosti	RTVS	16.4.2019
Ing. Zbyšek Šustek, CSc.		TV	Invázne druhy lienok	TV Markíza	17.9.2019
Ing. Zbyšek Šustek, CSc.		TV	Komáre a ich výskyt v domácnostiach	TV Joj	20.5.2019
RNDr. Peter Takáč, CSc.		TV	AMBULANCIA s názvom „Moderná liečba chronických rán“	RTVS 2	11.11.2019
Mgr. Radovan Václav, PhD.	Zuzana Mtierová, Veronika Rusňáková Taragel'ová, Yulia Didyk, Barbara Mangová, Markéta Derdáková	TL	článok "Čo spája vtáky a kliešte"	časopis Quark 11/2019	2019
Mgr. Peter Vršanský, PhD.		TL	Tím vedený Slovákom objavil vírusovú infekciu starú 98 miliónov rokov	SME: https://tech.sme.sk/c/22186894/tim-vedeny-slovenskym-paleontologom-objavil-virusovu-infekciu-staru-98-milionov.html#ixzz5wNryigIL .	12.8.2019
Mgr. Peter Vršanský, PhD.	Gombošová I.	TV	Najstaršia vírusová infekcia	RTVS Ranné správy	12.8.2019
Mgr. Peter Vršanský, PhD.	Lukáš Dzivý	RO	Objav vírusovej infekcie.	RTVS Rádio Slovensko	1.11.2019
Mgr. Igor Kokavec, PhD.		TL	popularizačný článok - Naidky znakom kvality	časopis QUARK	2019

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