

Ústav zoológie SAV



**Správa o činnosti organizácie SAV
za rok 2015**

Bratislava
január 2016

Obsah osnovy Správy o činnosti organizácie SAV za rok 2015

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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: RNDr. Ľubomír Vidlička, CSc.

Predseda vedeckej rady: Ing. Ladislav Roller, PhD.

Člen snemu SAV: MVDr. Markéta Derdáková, PhD.

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Názvy a adresy detašovaných pracovísk: nie sú

Vedúci detašovaných pracovísk: 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
		M	Ž	M	Ž			
Celkový počet zamestnancov	45	20	25	4	11	42	40,59	20,86
Vedeckí pracovníci	24	16	8	2	2	22	24,45	20,86
Odborní pracovníci VŠ	12	2	10	2	7	12	8,54	0
Odborní pracovníci ÚS	6	1	5	0	1	6	5,47	0
Ostatní pracovníci	3	1	2	0	1	2	2,13	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (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 31.12.2015 (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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2015)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	3	13	1	2	4	10	2
Ženy	0	9	0	0	0	5	3

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
Muži	0	0	3	0	2	1	3	4	0
Ženy	0	2	0	1	0	0	2	0	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	48,7	51,0	53,1
Ženy	39,6	41,4	44,6
Spolu	43,6	47,8	50,7

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

K 1.12.2015 došlo na Ústave zoológie SAV k delimitácii 5 vedeckých pracovníkov zo Sekcie ekológie živočíchov na Botanický ústav SAV. Členenie ústavu na 4 sekcie zostáva zachované.

Zoznam sekcií k 31.12.2015:

Sekcia ekológie živočíchov
 Sekcia medicínskej zoológie
 Sekcia molekulárnej fyziológie živočíchov
 Sekcia biokontroly a bioterapií

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Vedecké projekty, ktoré boli r. 2015 financované VEGA	15	3	79662	79662	3582
2. Projekty, ktoré boli r. 2015 financované APVV	4	3	141947	133819	23643
3. Projekty OP ŠF	0	3	-	-	793488
4. Projekty centier excelentnosti SAV	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 Počet návrhov domácich projektov podaných v roku 2015

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2015	-	1	
2. Projekty výziev OP ŠF podané r. 2015	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2015 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 7. Rámcového programu EÚ	0	1	-	-	12866
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	0	1	-	-	19600
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	0	0	-	-	-
4. Bilaterálne projekty	0	1	-	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	0	2	-	-	3400
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	0	0	-	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2015

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

	A	B
Počet podaných projektov v 7. RP EÚ		
Počet podaných projektov Horizont 2020		

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

Ústav zoológie SAV bol v uplynulom financovanom období 2009-2015 veľmi úspešný pri získavaní zdrojov zo štrukturálnych fondov. Viedol 3 výskumné projekty:

1. Vybudovanie bioterapeutického pracoviska a návrh technológie pre výrobu a vývoj biofarmák (11/2009 – 10/2012, 318.915,50 EUR €).
2. Vývoj diagnostických postupov pre detekciu patogénov prenášaných kliešťami a postupov na prípravu vakcín proti kliešťom (11/2010 – 10/2013, 939.914,76 €).
3. Vývoj a aplikácia inovatívneho diagnostického postupu pre molekulárnu identifikáciu živočíchov (11/2010 – 12/2013; 719.174,22 €).

Zamestnanci ústavu sa partnersky podieľali na 5 ďalších projektoch:

1. Centrum excelentnosti pre glykemiku (03/2010 – 04/2014; 3.977. 975,00 €, z toho ÚZ SAV 154.750,00 €).
2. Vývoj ekologických metód pre kontrolu populácii vybraných druhov lesných škodcov v zraniteľných vysokohorských oblastiach Slovenska (12/2010 – 12/2014; 1.210.418,92 €, z toho ÚZ SAV: 574.487,74 €).
3. Výskum a vývoj nových bioterapeutických metód a ich využitie pri liečbe niektorých závažných ochorení (06/2010 – 06/2015; 1 463 242,70 € z toho ÚZ SAV: 643 844,40 €).
4. Univerzitný vedecký park (03/2013 – 12/2015; 41.906.375,70 € z toho ÚZ SAV: 97.900,00 €).
5. Vybudovanie výskumno-vývojovej infraštruktúry pre výskum genetickej biodiverzity organizmov a zapojenie do iniciatívy IBOL (10/2015 – 12/2015; 1.716.730,00 €, z toho ÚZ SAV 666.000,00 €).

Prostriedky získané zo štrukturálnych fondov rozhodujúcou mierou prispeli k vybudovaniu nových laboratórií, významnému rozšíreniu prístrojového parku a umožnili prijať viacerých vedeckých či technických pracovníkov na dobu určitú. Ústav sa bude aj v budúcnosti usilovať o získanie projektov zo štrukturálnych fondov, ak budú vyhlásené nové výzvy.

2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok)

2.3.1. Základný výskum

Krv cicajúce článkonožce sa živia krvou rôznych druhov stavovcov, ktorým spôsobujú rany, sekundárne infekcie a oslabenie v dôsledku straty krvi. Počas cicania krvi prostredníctvom slín vpravujú do hostiteľov zmes farmakologicky účinných látok (antikoagulanty, imunomodulačné látky, toxíny), ktoré ovplyvňujú obrannú reakciu hostiteľa. Navyše sliny napomáhajú aj prenosu článkonožcami prenášaných mikroorganizmov, ktoré spôsobujú významné ochorenia ľudí a zvierat. S využitím modernej technológie sekvenovania DNA (Illumina HiSeq) boli analyzované gény exprimované v slinných žľazách ovada *Tabanus bromius* (1) a kliešťa *Rhipicephalus pulchellus* (2). Získali sme tak unikátnu databázu sekvencií proteínov vrátane nových bioaktívnych molekúl, ktorá môže slúžiť pre vývoj nových liečiv a vakcín na ochranu ľudí a zvierat pred parazitáciou článkonožcami a prenosom patogénov. Sliny kliešťa obsahujú tiež molekuly, ktoré spôsobujú dilatáciu ciev hostiteľa a umožňujú tak dlhodobé cicanie krvi. My sme zistili že sliny niektorých druhov kliešťa spôsobujú v závislosti od dĺžky cicania aj konstrikcii ciev čím regulujú príjem krvi hostiteľa (3). Cicanie a trávenie krvi hostiteľa klieštom je kontrolované neurónmi centrálnej nervovej sústavy prostredníctvom neuropeptidov. My sme objavili neuróny, ktoré inervujú špecifické sekréčne bunky slinných žliaz a neuróny inervujúce zadné črevo kliešťa. Tieto veľké neuróny produkujú neuropeptid orkokinín, ktorý sa tak podieľa na regulovaní vitálnych funkcií (príjem potravy, homeostáza) kliešťa (4).

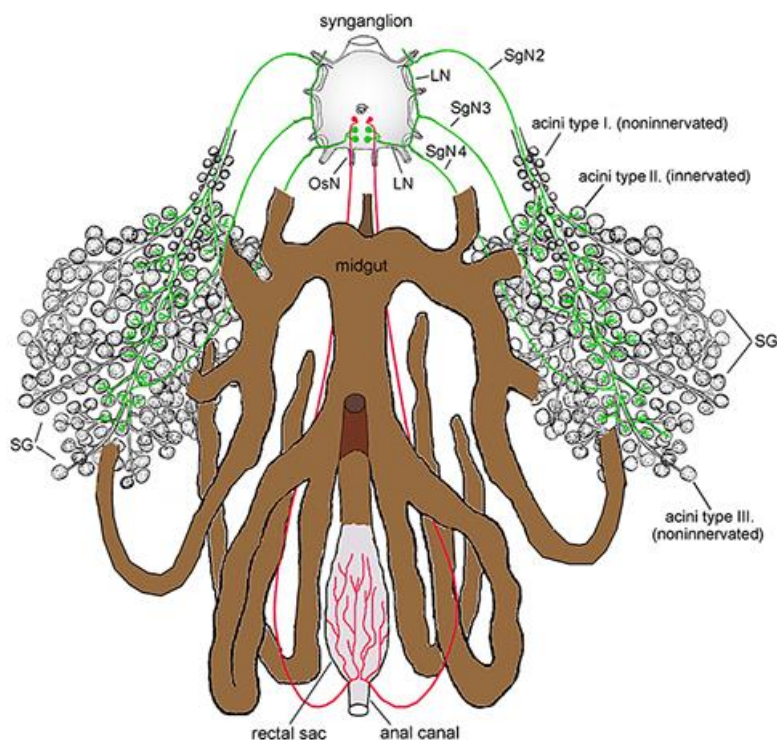


Schéma neurónov produkujúcich neuropeptid orkokinín a inervujúcich slinné žľazy a zadné črevo kliešťa. Prevzaté z publikácie Roller et al. *Cell & Tissue Research* 360: 209-22.

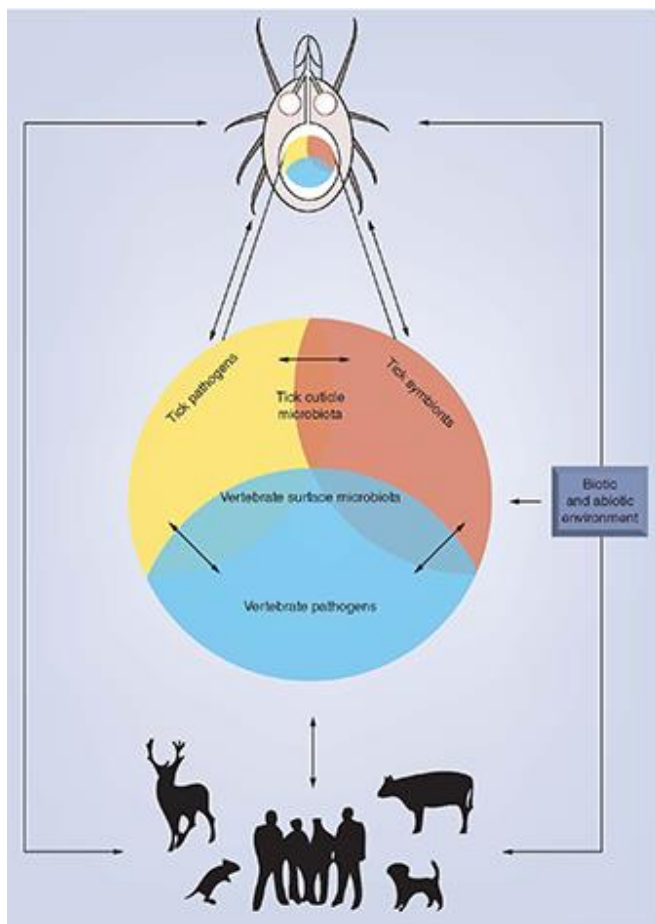
1. Ribeiro, J.M.C., Kazimírová, M., Takáč, P., Andersen, J.F., Francischetti, I.M.B. 2015. An insight into the sialome of the horse fly, *Tabanus bromius*. *Insect Biochemistry and Molecular Biology* 65: 83-90.
2. Tan, A.V.L., Francischetti, I.M.B., Slovak, M., Kini, R.M., Ribeiro, J.M.C. 2015. Sexual differences in the sialomes of the zebra tick, *Rhipicephalus pulchellus*. *Journal of Proteomics* 117: 120-144.
3. Pekáriková, D., Rajska, P., Kazimírová, M., Pecháňová, O., Takáč, P., Nuttall, P.A. 2015. Vasoconstriction induced by salivary gland extracts from ixodid ticks. *International Journal for Parasitology* 45: 879-883.
4. Roller, L., Šimo, L., Mizoguchi, A., Slovák, M., Park, Y., Žitňan, D. 2015. Orcokinin-like immunoreactivity in central neurons innervating the salivary glands and hindgut of ixodid ticks. *Cell & Tissue Research* 360(2): 209-222.

2.3.2. Aplikačný typ

Kolektív pracovníkov Sekcie biokontroly a biomonitoringu sa dlhodobo venuje výskumu saprofágnych a koprofágnych dvojkrídlavcov a ich možného využitia pre bioterapeutické a biotechnologické účely. (1) Larvoterapia – bioterapeutická metóda na liečbu dlhodobo sa nehojajúcich rán vychádza z biológie bzučivky *Lucilia sericata*. Sterilné larvy tohto druhu vylučujú zo slinných žliaz a prednej časti tráviaceho traktu komplex biomolekúl, ktoré sa podieľajú na enzymatickom odstránení odumretého tkaniva, eliminácii mikroflóry, revitalizácii mikrokapilár a iniciácii tvorby nového tkaniva. Cieľom prezentovanej publikácie bolo preskúmať podmienky vývinu lariev, ktoré boli aplikované v biovrecúškach alebo voľne v dresingu a na základe získaných výsledkov optimalizovať dobu liečebnej procedúry. Terapeutický čas v prípade lariev aplikovaných v biovrecúškach bol identifikovaný na 48 – 72 hodín, v prípade voľnej aplikácie v dresingu na 40 – 48 hodín. (2) Larvy niektorých druhov saprofágnych dvojkrídlavcov je možné využiť pre biodegradáciu organického odpadu najmä na poľnohospodárskych farmách, ale tiež v niektorých typoch prevádzok potravinárskeho a farmaceutického priemyslu. Výhodou tejto novej biotechnológie je krátky čas spracovania odpadu, úplná konverzia organických komponentov na anorganické látky a vznik dvoch ekologicky a ekonomicky zaujímavých produktov – organické hnojivo a biomasa tiel hmyzu. Review autorov Čičková, Newton, Lacy a Kozánek podáva ucelený prehľad o problematike využitia lariev saprofágnych dvojkrídlavcov pre biodegradáciu organického odpadu.

1. Čičková, H., Kozánek, M., Takáč, P. 2015. Growth and survival of bowfly *Lucilia sericata* larvae under simulated wound conditions: implications for maggot debridement therapy. *Medical and Veterinary Entomology* 29: 416-424.
2. Čičková, H., Newton, G.L., Lacy, R.C., Kozánek, M. 2015. The use of fly larvae for organic waste treatment. *Waste Management* 35: 68-80.

2.3.3. Medzinárodné vedecké projekty



Kliešte (Acari) ako prenášače mikrobiálnych pôvodcov ochorení predstavujú celosvetovo vážne riziko pre zdravie ľudí a zvierat. Zdokonalením molekulárnych metód a využitím nových technológií (napríklad next-generation sequencing) sme sa v rámci 7.RP EÚ projektu „Biológia a kontrola vektormi prenášaných infekcií v Európe“ (EDENext) podieľali na odhalení vysokej diverzity mikroorganizmov žijúcich v kliešťoch. Práve zloženie mikrobiómu môže ovplyvniť schopnosť prenášať patogény a vzťahy medzi kliešťom, hostiteľom a patogénom. Komplexný prístup k analýze mikrobiómu kliešťov, ktorý zahŕňa patogénne, komezálne aj mutualistické organizmy, môže viesť k pochopeniu procesov prebiehajúcich počas cirkulácie patogénov v abiotickom a biotickom prostredí, k zmene nášho pohľadu na komplex patogénnych mikroorganizmov (tzv. patobióm) prenášaných kliešťami a k vývoju nových metód boja proti kliešťami prenášaným ochoreniam.

The tick pathobiome concept.

Prevzaté z publikácie: Vayssier-Taussat et al. *Future Microbiology* (2015) 10: 2033-2043.

1. Vayssier-Taussat, M., Kazimirova, M., Hubalek, Z., Hornok, S., Farkas, R., Cosson, J.-F., Bonnet, S., Vourch, G., Gasqui, P., Mihalca, A.D., Plantard, O., Silaghi, C., Cutler, S., Rizzoli, A. 2015. Emerging horizons for tick-borne pathogens: from the 'one pathogen–one disease' vision to the pathobiome paradigm. *Future Microbiology* 10: 2033-2043.
2. Bell-Sakyi, L., Palomar, A.M., Kazimirova, M. 2015. Isolation and propagation of a *Spiroplasma* sp. from Slovakian *Ixodes ricinus* ticks in *Ixodes* spp. cell lines. *Ticks and Tick-borne Diseases* 6: 601-606.
3. Svitáľková, Z., Haruštiaková, D., Mahríková, L., Berthová, L., Slovák, M., Kocianová, E., Kazimírová, M. 2015. *Anaplasma phagocytophilum* prevalence in ticks and rodents in an urban and natural habitat in South-Western Slovakia. *Parasites & Vectors* 8: 276-287.

2.4. Publikačná činnosť (úplný zoznam je uvedený v Prílohe C)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2015/ doplňky z r. 2014	B Počet v r. 2015/ doplňky z r. 2014	C Počet v r. 2015/ doplňky z r. 2014
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB)	2 / 0	0 / 0	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA)	1 / 0	0 / 0	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	1 / 0	0 / 0	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0	0 / 0	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0	0 / 0	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0	0 / 0	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0	0 / 0	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0	0 / 0	0 / 0
9. Vedecké a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, CDDB, BDCA, BDCB, BDDA, BDDB)	34 / 0	0 / 0	0 / 0
10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFB, BDFC)	19 / 1	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch			
a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA,	6 / 1	0 / 0	0 / 0

AFB, BEC, BED)			
b/ nerecenzované práce (BEE, BEF, CEC, CED)	0 / 0	0 / 0	0 / 0
12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	1	0	0
13. Ostatné vydané periodiká	1	0	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	4 / 0	0 / 0	0 / 0
15. Práce uverejnené na internete (GHG)	2 / 0	0 / 0	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	0 / 0	0 / 0	0 / 0
17. Heslá v <i>Encyklopédii Beliana</i> a iných encyklopédiách a terminologických slovníkoch (BDA, BDB)	0 / 0	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora

B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

Tabuľka 2f Ohlasy

OHLASY	A Počet v r. 2014/ doplňky z r. 2013	B Počet v r. 2014/ doplňky z r. 2013
Citácie vo WoS Core Collection (1.1, 2.1)	850 / 42	0 / 0
Citácie v SCOPUS (1.2, 2.2)	143 / 12	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	29 / 14	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	97 / 26	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	52
Prednášky a vývesky na domácich vedeckých podujatiach	34

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Majtán, J. 2015. Med medicínskej kvality: náročná cesta medzi včelárom a lekárom. "Medzinárodná konferencia o medu". Dátum: 26.09.2015. Miesto konania: Stredisko voľného času Lužánky, Brno, Česká Republika.

Derdáková, M., Pangráčová, L., Chvostáč, M., Vaculová, T., Selyemová, D., Rusňáková Taragelová, V. 2015. Molekulárna eko-epidemiológia lymfatickej boreliózy a anaplazmózy na Slovensku. Dátum: 15.4.2015. Miesto konania: III. Konzultačný deň "Problémy Lyme borreliózy a ďalších infekcií prenášaných kliešťami. Státní zdravotní ústav, Praha.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 3

Číslo PV: 5046-2015

Mená autorov: Kozánek Milan, Čičková Helena, Barta Marek, Kautmanová Ivona RNDr., PhD.

Názov vynálezu: Vysokovirulentný kmeň entomopatogénnej huby *Beauveria bassiana* DSM 32081 na použitie v bioregulácii lykožrúta smrekového

Majiteľ / spolumajiteľ:

Číslo PV: 64-2015

Mená autorov: Takáč Peter, Habrmanová Mária, Florián Štěpán

Názov vynálezu: Hydrogél na báze biopolymérov s extraktmi slinných žliaz a čriev lariev *Lucilia sericata* pre využitie v larválnej terapii a prípravok na jeho báze

Majiteľ / spolumajiteľ:

Číslo PV: 63-2015

Mená autorov: Takáč Peter, Blecha Jozef Ing.

Názov vynálezu: Zariadenie na masový chov lariev, separáciu lariev a získavanie extraktov zo slinných žliaz a čriev lariev muchy bzučivky zelenej (*Lucilia sericata*)

Majiteľ / spolumajiteľ:

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2015 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 2h Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Čiampor Fedor	Granty UK	2
Darolová Alžbeta	APVV	1
Derdáková Markéta	APVV	2
	VEGA	1
Kazimírová Mária	VEGA	1
Václav Radovan	VEGA	2
Vidlička Ľubomír	APVV	1
Žitňan Dušan	APVV	2

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 1

2.10. Iné informácie k vedeckej činnosti.

V roku 2015 bol Ústav zoológie SAV opäť úspešný v publikačnej oblasti. Dve pracovníčky boli spoluautorkami článkov publikovaných v *Annual Review of Entomology* (IF 13,73) a *Current Biology* (IF 9,57). Ostatní pracovníci tiež publikovali svoje vedecké výsledky v pomerne veľkom počte kvalitných impaktovaných časopisov a monografiách. Vysoké nároky na kvalitu výsledkov a publikačných výstupov sú trvalou prioritou ústavu a tomu je prispôsobený aj systém určovania osobného hodnotenia vedeckých pracovníkov.

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 2015

Forma	Počet k 31.12.2015				Počet ukončených doktorantúr v r. 2015					
	Doktorandi				Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí		ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Interná zo zdrojov SAV	3	8	0	1	0	2	0	1	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	1	1	0	0	0	0	0	0	0	0
Spolu	4	9	0	1	0	2	0	1	0	0
Súhrn	13		1		2		1		0	

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

Z formy	Interná z prostriedkov SAV	Interná z prostriedkov SAV	Interná z iných zdrojov	Interná z iných zdrojov	Externá	Externá
Do formy	Interná z iných zdrojov	Externá	Interná z prostriedkov SAV	Externá	Interná z prostriedkov SAV	Interná 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 2015 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Jana Bohová	interné štúdium hradené z prostriedkov SAV	9 / 2010	8 / 2015	4.2.5 zoológia	RNDr. Peter Takáč CSc., Ústav zoológie SAV	Prírodovedecká fakulta UK
Mgr. Kristína Laššová	interné štúdium hradené z prostriedkov SAV	9 / 2011	9 / 2015	4.2.5 zoológia	RNDr. Fedor Čiampor PhD, Ústav zoológie SAV	Prírodovedecká fakulta UK

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

Názov študijného programu (ŠP)	Názov študijného odboru (ŠO)	Číslo ŠO	Univerzita/vysoká škola a fakulta
molekulárna biológia	molekulárna biológia	4.2.3	Prírodovedecká fakulta UK
Zoológia	zoológia	4.2.5	Prírodovedecká fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisii študijných programov doktorandského štúdia	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
RNDr. Stanislav Kalúz, CSc. (zoológia)		
RNDr. Milan Kozánek, CSc. (zoológia)		
RNDr. Milan Kozánek, CSc. (všeobecná ekológia a ekológia jedinca a populácií)		
RNDr. Ján Krištofik, CSc. (zoológia)		
Ing. Ladislav Roller, PhD. (zoológia)		
doc. RNDr. Michal Stanko, DrSc. (zoológia)		
RNDr. Ferdinand Šporka, DrSc. (zoológia)		
RNDr. Ferdinand Šporka, DrSc. (všeobecná ekológia a ekológia jedinca a populácií)		
RNDr. Peter Takáč, CSc. (zoológia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	2	0	1	0
Celkový počet hodín v r. 2015	9	0	88	0

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

Tabuľka 3g Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	7
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	13
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	5
4.	Počet školených doktorandov (aj pre iné inštitúcie)	8
5.	Počet oponovaných dizertačných a habilitačných prác	8
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	4
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	0
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	6
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	2

3.6. Iné dôležité informácie k pedagogickej činnosti

Ústav zoológie SAV je akreditovaným školiacim pracoviskom pre odbory Zoológia a Molekulárna biológia ako externá vzdelávacia inštitúcia PriF UK v Bratislave. V roku 2015 sme požiadali o akreditáciu v oboch odboroch na ďalšie akreditačné obdobie univerzity. V tomto roku bolo na ústave 10 doktorandov, z toho 2 doktorandi úspešne obhájili titul PhD.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2015 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 2016 (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

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	0	0	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. Fedor Čiampor, PhD

European Pond Conservation Network (funkcia: člen)

The Balfour-Browne Club (funkcia: člen)

Wiener Coleopterologenverein (funkcia: člen)

RNDr. Zuzana Čiamporová-Zaťovičová, PhD.

European Pond Conservation Network (EPCN) (funkcia: člen)

The Balfour-Browne Club (funkcia: člen)

The International Association for Danube Research (IAD) (funkcia: člen)

RNDr. Alžbeta Darolová, CSc.

Česká ornitologická spoločnosť (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

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

RNDr. Marta Illyová, PhD.

The International Association for Danube Research (IAD) (funkcia: člen)

RNDr. Milan Kozánek, CSc.

National Geographic Society (funkcia: člen)
The American Entomological Society (funkcia: člen)

Ing. Juraj Majtán, PhD.

European Wound Management Association (EWMA) (funkcia: člen)
International Honey Commission (funkcia: člen)

Mgr. Ladislav Pekárik, Ph.D

Česká zoologická spoločnosť (funkcia: člen)
Magyar Haltani Tarsaság (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)

Mgr. Radovan Václav, PhD.

Česká a slovenská etologická spoločnosť (funkcia: člen)

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
Derdáková Markéta	GACR	1

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

V roku 2015 boli zo zdrojov MVTS finančne podporené dva projekty, jeden z IAEA a druhý zo 7.RP.

IAEA projekt

V rámci medzinárodného projektu: „Zvýšenie vektorovej odolnosti na trypanozómovú infekciu“ financovaného Medzinárodnou agentúrou pre atómovú energiu (IAEA), sme sledovali vplyv rôznych druhov stravy na črevnú symbiotickú flóru bodaviek tse-tse. Cieľom výskumu bolo zlepšenie podmienok masového chovu hmyzu, na produkciu dostatočného množstva a vysokej kvality lietajúcich bodaviek, ktoré majú byť použité pri SIT technológii. Pokračovali sme vo vyhodnocovaní vplyvu rôznych druhov diét založených na komplexe B vitamínov pri nahradení symbiontov antibioticky ošetrovaných troch rôznych druhov *Glossina morsitans morsitans*, *G. pallidipes* a *G. palpalis gambiensis*. Účinok týchto endosymbiontov sme študovali na základe vhodnosti a plodnosti vybraných druhov. V spolupráci so zahraničným laboratóriom v Grécku sme vykonávali porovnávaciu analýzu symbiotickej flóry všetkých troch druhov *Glossina* a charakterizovali črevnú symbiotickú bakteriálnu flóru.

Ďalej sme sa zamerali na výskum homeostázy prolínu a kondíciu aposymbiotických bodaviek. Analyzovali sme dopad inzulínu na hladinu prolínu v aposymbiotických bodavkách kŕmených rôznou potravou.

- Benoit, J. B., Attardo, G. M., Baumann, A. A., Michalková, V., Aksoy, S. 2015. Adenotrophic Viviparity in Tsetse Flies: Potential for Population Control and as an Insect Model for Lactation. *Annual review of entomology* 60: 351-371. (13,731 –IF 2014) ISSN 0066-4170. Typ: **ADCA**

7. RP projekt

V rámci integrovaného projektu 7.RP EÚ **Biológia a kontrola vektormi prenášaných infekcií v Európe** (EDENext (Health-F3-2010-261504) sme sledovali prítomnosť a prevalenciu pôvodcov nákaz prenášaných kliešťami a drobnými cicavcami v prenášačoch a v stavovcoch v rôznych habitatoch Slovenska. V poslednej etape riešenia (január - jún 2015) sme ukončili molekulárnu detekciu kliešťami prenášaných mikroorganizmov vo vzorkách z kliešťov odchytených z vegetácie a z hostiteľov kliešťov, ktoré sme získali v rokoch 2011-2014 z modelových lokalít Slovenska, nachádzajúcich sa v oblastiach s rôznym stupňom zásahu človeka (urbánna oblasť, nefragmentovaný les, poľnohospodárska krajina). Potvrdili sme rozdiely v stupni zamorenia kliešťov *Ixodes ricinus* a hostiteľov kliešťov patogénnymi mikroorganizmami *Anaplasma phagocytophilum*, *Rickettsia* spp., *Coxiella burnetii*, *Candidatus Neoehrlichia mikurensis*, *Borrelia burgdorferi* s.l. a *Babesia* spp., rozdiely v genetickej diverzite mikroorganizmov v závislosti od habitatu, ako aj riziko prenosu nákaz na človeka a zvieratá v urbánnych a suburbánnych oblastiach Slovenska. V spolupráci s The Pirbright Institute (Veľká Británia) sa nám podarilo vyizolovať z kliešťov *I. ricinus* spiroplazmy, ktoré vykazovali vysoký stupeň podobnosti so *Spiroplasma ixodetis*. Asociácia spiroplazmiem s kliešťami a ich možná patogenita pre ľudí a zvieratá zatiaľ nie je objasnená. Podarilo sa nám zaviesť model pre experimentálnu infekciu laboratórnych myší a kliešťov baktériou *A. phagocytophilum*. Model môže slúžiť pre následné štúdie vektorovej kompetencie *I. ricinus* pre Európske kmene baktérie. Výsledky projektu sme prezentovali na konferenciách: International workshop on “Ticks & Tick-Transmitted Diseases 2015” (T&TTD-2015), Genes, Ecosystems and Risk of Infection (GERI 2015), 14th International Conference on Lyme Borreliosis and other Tick-borne Diseases (ICLB2015) a IV. Labudove dni, a zverejnili v zborníkoch z konferencií vo forme abstraktov a v štyroch vedeckých publikáciách:

- Mit'ková, K., Berthová, L., Kalúz, S., Kazimírová, M., Burdová, L., Kocianová, E. 2015. First detections of *Rickettsia helvetica* and *R. monacensis* in ectoparasitic mites (Laelapidae and Trombiculidae) infesting rodents in south-western Slovakia. *Parasitology Research* 114: 2465-2472. DOI 10.1007/s00436-015-4443-x (2.098 - IF2014)
- Svitáľková, Z., Haruštiaková, D., Mahríková, L., Berthová, L., Slovák, M., Kocianová, E., Kazimírová, M. 2015. *Anaplasma phagocytophilum* prevalence in ticks and rodents in an urban and natural habitat in South-Western Slovakia. *Parasites & Vectors* 8: 276-287. DOI 10.1186/s13071-015-0880-8 (3.430 - IF2014)
- Bell-Sakyi, L., Palomar, A.M., Kazimirova, M. 2015. Isolation and propagation of a *Spiroplasma* sp. from Slovakian *Ixodes ricinus* ticks in *Ixodes* spp. cell lines. *Ticks and Tick-borne Diseases* 6: 601-606. DOI: <http://dx.doi.org/10.1016/j.ttbdis.2015.05.002> (2.718 - IF2014)
- Vayssier-Taussat, M., Kazimirova, M., Hubalek, Z., Hornok, S., Farkas, R., Cosson, J.-F., Bonnet, S., Vourch, G., Gasqui, P., Mihalca, A.D., Plantard, O., Silaghi, C., Cutler, S., Rizzoli, A. 2015. Emerging horizons for tick-borne pathogens: from the 'one pathogen-one disease' vision to the pathobiome paradigm. *Future Microbiol.* 10: 2033-2043. DOI: 10.2217/fmb.15.114 (4.275 - IF2014)

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

5. Vedná politika

Hlavné vedecko-výskumné zameranie Ústavu zoológie SAV je zakotvené v organizačnom poriadku pracoviska a je postavené na troch pilieroch:

1. experimentálne-laboratórnym zameranom na rozvoj molekulárnej biológie, biochémie a fyziológie,
2. aplikovanom výskume zameranom na bioterapie a boj proti poľnohospodárskym a lesným škodcom,
3. ekologickom zameranom na štúdium suchozemských a vodných živočíchov a detekciu patogénov prenášaných kliešťami.

Na pracovisku sa riešia perspektívne témy teoretického aj aplikovaného charakteru a nepredpokladáme podstatné zmeny v budúcnosti. Vedenie ústavu ale dbá na to, aby výskumné tímy reagovali na požiadavky moderného vedeckého výskumu, zavádzali nové metódy a spolupracovali s inými špičkovými pracoviskami. To umožňuje produkovať zaujímavé výsledky a získavať nové vedecké projekty. Veríme, že transformácia na VVI umožní pružnejšie reagovať na stále náročnejšie požiadavky vedeckého výskumu a poskytne lepšie podmienky pre spoluprácu s akademickými pracoviskami, ale aj so súkromnými firmami.

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Univerzita Mateja Bela v Banskej Bystrici
Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu VEGA 2/0081/13
Začiatok spolupráce: 2013
Zameranie: ekologický výskum vysokohorských ekosystémov
Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Technická univerzita vo Zvolene
Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu VEGA 2/0081/13
Začiatok spolupráce: 2013
Zameranie: ekologický výskum vysokohorských ekosystémov
Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave
Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu APVV-0115-11
Začiatok spolupráce: 2012
Zameranie: riešenie projektu
Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Slovenská zdravotnícka univerzita v Bratislave
Druh spolupráce (spoločné pracovisko alebo iné): Spoločné pracovisko: Laboratórium pre výskum bioterapeutických metód
Začiatok spolupráce: 2011
Zameranie: výskum
Zhodnotenie:

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: Scientica, s r.o.

Partneri: Ústav zoológie SAV, KARI TRC Keňa

Zameranie: Priamy transfer vedeckých poznatkov získaných v základnom výskume a ich aplikácii v konkrétnych odboroch spoločenskej praxe.

Rok založenia: 2007

Zhodnotenie: Riešené projekty s aplikačnými výstupmi: Výskum a vývoj nových bioterapeutických metód a ich využitie pri liečbe niektorých závažných ochorení. Vývoj ekologických metód pre kontrolu populácií vybraných druhov lesných škodcov v zraniteľných vysokohorských oblastiach Slovenska. Vývoj a testovanie technológie biodegradácie trusu hospodárskych zvierat. Svoje aktivity neobmedzuje len na území Slovenska. V rámci rozvojovej pomoci do Kénskej republiky sa venuje transferu vedeckých poznatkov, potenciálne aj do ďalších krajín najmä Východnej Afriky v rámci uvedených projektov:

"Zavedenie terapie sterilnými larvami do klinickej praxe zariadení humánnej a veterinárnej medicíny v Kénskej republike."

"Zvýšenie vektorovej odolnosti na trypanozómovú infekciu bodaviek tsetse."

"Zabezpečenie masového chovu kolónie bodaviek tsetse, *Glossina palpalis gambiensis* v boji proti spavej chorobe u ľudí a choroby nagana u dobytky v Senegale."

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: 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

Partner: Prírodovedecká fakulta Univerzity Komenského v Bratislave

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2015

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2015

Objem získaných prostriedkov v bežnom roku (€): 3960

Stručný opis výstupu/výsledku:

Zhodnotenie:

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

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

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

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

Meno pracovníka	Názov orgánu	Funkcia
Ing. Tomáš Čejka, PhD.	Poradný zbor pre Dohovor o medzinárodnom obchode s ohrozenými druhmi voľne žijúcich živočíchov a rastlín (CITES)	člen poradného výboru
RNDr. Alžbeta Darolová, CSc.	Koordinačná rada pre monitoring vtákov pri Štátnej ochrane prírody	člen Koordinačnej rady
Ing. Juraj Majtán, PhD.	Odbor bezpečnosti potravín a výživy; Sekcia poľnohospodárstva, potravinárstva a obchodu; Ministerstvo pôdohospodárstva a rozvoja vidieka SR	člen odbornej vedeckej skupiny
Mgr. Ladislav Pekárik, Ph.D	Koordinačná rady pre monitoring a reporting podľa čl. 17 smernice o biotopoch Ministerstva životného prostredia	člen
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: Stanovisko slovenskej strany k projektu LIFENAT/AT/05 renaturácia nív dolnej Moravy

Adresát expertízy: MŽP. sekcia vôd

Spracoval: RNDr. Ferdinand Šporka, DrSc.

Stručný opis: vypracovanie posudku za Ústav zoológie SAV

Názov expertízy: recenzné posudky pre 17 Programov starostlivosti Chránených vtáčích území

Adresát expertízy: ŠOP SR

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: vyhotovenie 17 recenzných posudkov Programov starostlivosti Natura2000 (CHVÚ) území

Názov expertízy: expertízny posudok

Adresát expertízy: OÚ ŽP Nové Zámky

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: odborné vyjadrenie k spronej metodike inventarizačného výskumu vtákov

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 vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MVDr. Markéta Derdáková, PhD.		RO	Nočná pyramída rozhovory o kliešťoch a chorobách nimi prenášaných	Slovenský rozhlas RTVS	19.6.2015
MVDr. Markéta Derdáková, PhD.		TV	Rozhovor o vyšetrení kliešťov na prítomnosť patogénov	TV JOJ	11.6.2015
MVDr. Markéta Derdáková, PhD.		TV	Sezónna aktivita kliešťov	TV Bratislava	16.6.2015
Ing. Juraj Majtán, PhD.		PB	Slovenský med a jeho medicínálne využitie	Včelárske múzeum pri Kráľovej pri Senci	13.6.2015
Ing. Juraj Majtán, PhD.	Štefan Demeter, Dušan Dedinský	TV	Rozhovory cez polnoc - Včely dokážu liečiť	TA3	3.7.2015
Ing. Ladislav Roller, PhD.		PB	Mapovanie peptiderných buniek hmyzu konfokálnym mikroskopom	Gloria Palác, Košice	12.3.2015
RNDr. Peter Takáč, CSc.		TV	Larvy liečia rany	TA3	21.10.2015
RNDr. Peter Takáč, CSc.		TL	Na liečbu rán v levošskej nemocnici prvýkrát využili mušie larvy	Sme, Korzár	21.10.2015
RNDr. Peter Takáč, CSc.		TL	V Levoči zaviedli netradičný spôsob liečby: Pacientom vkladajú do rán larvy múch!	Čas	22.10.2015
RNDr. Peter Takáč, CSc.		iné	V levošskej nemocnici po prvýkrát aplikovali terapiu larvami	SITA v Zdravotníctve	21.10.2015
Mgr. Radovan Václav, PhD.	Branislav Molnár, Dušan Senko - scenár	DO	odborná spolupráca - komentár k filmu Európsky významné druhy rastlín a živočíchov	DVD: 2509-001-9	2015
RNDr. Ľubomír Vidlička, CSc.		TL	Osy - Videorozhovor	.Týždeň	5.9.2015
Mgr. Marek Semelbauer, PhD.	Jaroslav Ferenc	PB	vedenie biologického krúžku pre stredoškolských študentov	PriFUK	10

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	3	tlač	3	TV	4
rozhlasy	1	internet	0	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	1
iné	1				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Medicínske využitie včelích produktov	domáca	Ústav zoológie SAV	03.10.-03.10.2015	40
IV. Labudove dni	domáca	Smolenice	04.11.-06.11.2015	60

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	0	0	0

9.5. Členstvo v redakčných radách časopisov

Ing. Tomáš Čejka, PhD.

Folia faunistica Slovaca (funkcia: člen redakcie)

Malacologica Bohemoslovaca (funkcia: výkonný redaktor)

RNDr. Fedor Čiampor, PhD

ISRN Entomology (funkcia: editor)

Zootaxa (funkcia: editor)

RNDr. Zuzana Čiamporová-Zaťovičová, PhD.

Limnologický spravodajca (funkcia: šéfredaktor a výkonný redaktor)

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.

Advances in Zoology and Botany (funkcia: člen redakčnej rady)

Biologia (funkcia: výkonný redaktor)

Persian Journal of Acarology (funkcia: člen redakčnej rady)

Ing. Juraj Majtán, PhD.

Asian Pacific Journal of Tropical Biomedicine (funkcia: člen redakčnej rady)

Evidence-Based Complementary and Alternative Medicine (funkcia: člen redakčnej rady)

International Journal of Genuine Traditional Medicine (TANG) (funkcia: Associate Editor)

Doc. PaedDr. Pavol Prokop, PhD.

Biologia (funkcia: člen)

Educational Sciences: Theory & Practise (funkcia: člen)

Entomofauna Carpathica (funkcia: Editor)

Eurasia Journal of Mathematics, Science and Technology Education (funkcia: člen)

International Electronic Journal of Elementary Education (funkcia: člen)

International Electronic Journal of Environmental Education (funkcia: člen)

International Journal of Biology Education (funkcia: člen)

International Journal of Environmental and Science Education (funkcia: zástupca šéfredaktora)

Journal of Baltic Science Education (funkcia: člen)

Journal of Coastal Life Medicine (funkcia: člen)

SOP Transactions on 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: člen)

Elytron (funkcia: člen)

Oltenia, Studii și Comunicări, Științele Naturii (funkcia: člen)

Mgr. Radovan Václav, PhD.

Biologia - Botany, Zoology and Cellular and Molecular Biology (funkcia: člen Editorial Board)

Tichodroma (funkcia: člen Redakčnej rady)

Zoological Research (funkcia: člen Editorial Board)

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. Fedor Čiampor, PhD

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

RNDr. Zuzana Čiamporová-Zaťovičová, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Alžbeta Darolová, CSc.

Slovenská ornitologická spoločnosť/Birdlife (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Katarína Goffová

Slovenská limnologická spoločnosť (funkcia: člen)

RNDr. Marta Illyová, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: podpredseda)

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)

RNDr. Milan Kozánek, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Krištofik, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Kristína Laššová

Slovenská limnologická spoločnosť (funkcia: člen)

Ing. Juraj Majtán, PhD.

Slovenská apiterapeutická spoločnosť (SAPIS) (funkcia: člen)
Slovenská lekárska Spoločnosť (funkcia: člen)

Mgr. Ladislav Pekárik, Ph.D.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen)
Slovenská zoologická spoločnosť (funkcia: podpredseda)

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)

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

V roku 2015 ÚZ SAV vydal dve vedecké monografie, ktoré sumarizujú výsledky pokalamitného výskumu na území Tatier a Podtatranskej kotliny v rokoch 2006 - 2013:

- VIDLIČKA, Ľ. 2015. Siet'okridlovce (Neuroptera) Tatier. Ústav zoológie SAV, Scientica, s.r.o., Bratislava. 109 pp. ISBN 978-80-970326-5-4.
- MAJZLAN, O. 2015. Chrobáky (Coleoptera) Tatier. Ústav zoológie SAV, Scientica, s.r.o., Bratislava. 224 str. ISBN 978-80-971483-0-0.

Spolu s Virologickým ústavom SAV, Parazitologickým ústavom SAV a Slovenskou parazitologickou spoločnosťou sme boli organizátormi vedeckej konferencie IV. Labudove dni, 4.-6.XI.2015, Kongresové centrum SAV v Smoleniciach.

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		13671
z toho	knihy a zviazané periodiká	11620
	audiovizuálne dokumenty	6
	elektronické dokumenty (vrátane digitálnych)	44
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	1901
Počet titulov dochádzajúcich periodík		38
z toho zahraničné periodiká		34
Ročný prírastok knižničných jednotiek		32
v tom	kúpou	0
	darom	32
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		11620

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		106
z toho	odborná literatúra pre dospelých	106
	výpožičky periodík	75
	prezenčné výpožičky	2
MVS iným knižniciam		12
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		17
Počet vypracovaných bibliografií		17
Počet vypracovaných rešerší		12

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	55
Návštevníci knižnice spolu (bez návštevníkov podujatí)	72

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

RNDr. Dušan Žitňan, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.5. Členstvo v orgánoch VEGA

RNDr. Milan Kozánek, CSc.

- Komisia VEGA č. 8 (člen)

doc. RNDr. Michal Stanko, DrSc.

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

12. Hospodárenie organizácie

12.1. Výdavky PO SAV

Tabuľka 12a Výdavky PO SAV (v €)

V ý d a v k y	Skutočnosť k 31.12.2015 spolu	v tom:			
		zo ŠR od zriaďovateľa	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	1 987 214	872 892	130 741	983 581	728 066
Bežné výdavky	1 289 694	872 892	95 865	320 937	65 422
v tom:					
mzdy (610)	617 409	494 031	39 704	83 674	26 105
poistné a príspevok do poisťovní (620)	219 951	170 690	13 372	35 889	9 548
tovary a služby (630)	369 029	137 919	42 789	188 321	29 769
z toho: časopisy	6 638	6 638			
VEGA projekty	83 244	83 244			
MVTS projekty	3 400	3 400			
CE					
vedecká výchova	4 440	4 440			
bežné transfery (640)	83 305	70 252		13 053	
z toho: štipendiá	70 252	70 252			
transfery partnerom projektov	13 053			13 053	
Kapitálové výdavky	697 520		34 876	662 644	662 644
v tom:					
obstarávanie kapitálových aktív	697 520		34 876	662 644	662 644
kapitálové transfery					
z toho: transfery partnerom projektov					

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2015 spolu	v tom:	
		rozpočtové	z mimorozp. zdrojov
Príjmy spolu	1 950 626	872 892	1 077 734
Nedaňové príjmy	62 218		62 218
v tom:			
príjmy z prenájmu			
príjmy z predaja výrobkov a služieb	46 229		46 229
iné	15 989		15 989
Granty a transfery (mimo zdroja 111)	1 077 734		1 077 734
v tom:			
tuzemské	187 379		187 379
z toho: APVV	187 379		187 379
iné	62 218		62 218
zahraničné	33 383		33 383
z toho: projekty rámcového programu EÚ	794 754		794 754
iné			

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Takáč Peter

Diplom Zlatá Incheba 2015

Oceňovateľ: Incheba a.s.

Opis: Udelené za "Biovrecko so sterilnými larvami muchy bzučivky zelenej (Lucilia sericata)."

Takáč Peter

Zlatá Incheba 2015

Oceňovateľ: Incheba a.s.

Opis: Udelené za "Hydrogél na báze biopolymérov s extraktami slinných žliaz a čriev lariev Lucilia sericata (ES hydrogél) pre využitie v larválnej terapii".

15.2. Medzinárodné ocenenia

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

Prístupová cesta a okolie ústavu sú vo veľmi zlom stave, preto je nutné vyasfaltovať túto pomerne malú plochu.

Za ďalší chronický problém považujeme neprimeranú a mnohokrát úplne zbytočnú byrokratickú záťaž vedeckých a ekonomických pracovníkov. Hlavne vedúci a ekonomickí pracovníci čelia doslova nekonečnému prívalu správ, dotazníkov a zdĺhavých schôdzí, ktoré zaberajú obrovské množstvo času a prakticky nič neriešia. Dlhodobo platí nepriama úmera: čím menej peňazí na výskum, tým väčšia a nezmyselnejšia byrokracia. Je absolútne nevyhnutné zjednodušenie pravidiel pre vypracovanie výročných správ a vyhodnocovanie publikácií a iných dôležitých výstupov. Nová smernica SAV č. 303 o evidencii a kategorizácii publikačnej činnosti a ohlasov z roku 2015 obsahuje 99 kategórii pre členenie publikácií a 14 kategórií ohlasov. Ani pri najlepšej vôli nie je niekedy možné správne či jednoznačne zaradiť niektoré publikácie do tejto veľmi komplikovanej schémy. To isté platí aj pre ohlasy. Situáciu pri vkladaní údajov do systému a pri generovaní záverečnej správy sťažujú aj veľmi komplikované prístupové práva k prácam či časopisom zadaným do tohto systému niekým iným už skôr.

Tiež je nutné zjednodušiť výberové konania pri objednávaní chemikálií, materiálu a prístrojov. V neposlednom rade je treba sprehľadniť a zjednodušiť pravidlá pri podávaní, riešení a vyhodnocovaní projektov. Bez výrazných zmien v našom mimoriadne ťažkopádnom systéme a pri nedostatočnom financovaní vedy a vzdelávania budeme stále výraznejšie zaostávať za okolitými krajinami.

Správu o činnosti organizácie SAV spracoval(i):

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 31.12.2015****Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	Prof. Oto Majzlan, CSc.	10	0.10
2.	doc. RNDr. Michal Stanko, DrSc.	30	0.30
3.	RNDr. Ferdinand Šporka, DrSc.	100	1.00
4.	RNDr. Dušan Žitňan, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	RNDr. Alžbeta Darolová, CSc.	100	1.00
2.	MVDr. Markéta Derdáková, PhD.	100	1.00
3.	RNDr. Mária Kazimírová, CSc.	100	1.00
4.	RNDr. Milan Kozánek, CSc.	100	0.75
5.	RNDr. Ján Krištofík, CSc.	100	1.00
6.	Ing. Juraj Majtán, PhD.	100	1.00
7.	RNDr. Peter Mašán, PhD.	100	1.00
8.	Mgr. Veronika Michalková, PhD.	100	1.00
9.	Doc. PaedDr. Pavol Prokop, PhD.	50	0.50
10.	Ing. Ladislav Roller, PhD.	100	1.00
11.	Mgr. Veronika Rusňáková Taragel'ová, PhD.	100	0.00
12.	Ing. Zbyšek Šustek, CSc.	100	1.00
13.	RNDr. Peter Takáč, CSc.	100	1.00
14.	Mgr. Radovan Václav, PhD.	100	1.00
15.	RNDr. Ľubomír Vidlička, CSc.	100	1.00
Vedeckí pracovníci			
1.	Mgr. Ivana Daubnerová, PhD.	100	0.00
2.	Mgr. Emanuel Procházka, PhD.	100	1.00
3.	Mgr. Diana Selyemová, PhD.	40	0.40
4.	Mgr. Marek Semelbauer, PhD.	100	1.00
5.	RNDr. Ingrid Sveráková, PhD.	50	0.04

Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Lucia Bednárová	100	0.10
2.	Mgr. Jana Bohová	100	1.00
3.	Mgr. Mária Habrmanová	100	1.00
4.	RNDr. Vlasta Lúčanová	50	0.50
5.	Mgr. Barbara Mangová, PhD.	100	0.08
6.	Mgr. Iveta Mikušiaková	100	1.00
7.	Bc. Soňa Morávková	10	0.01
8.	RNDr. Mária Oriješková	100	0.33
9.	Mgr. Dagmar Práznovská	100	1.00
10.	Mgr. Marek Regula	45	0.18
11.	Ing. Danka Sitarčíková	100	1.00
12.	Mgr. Jakub Steinhübel	100	1.00
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	100	1.00
2.	Lýdia Drinková	100	1.00
3.	Mária Gudabová	100	1.00
4.	Miriám Pillerová	22	0.22
5.	Eva Vráblová	100	1.00
6.	Jana Weisová	100	1.00
Ostatní pracovníci			
1.	Pavol Haris	100	1.00
2.	Romana Hyžová	50	0.13
3.	Zuzana Pelikánová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Ing. Tomáš Čejka, PhD.	30.11.2015	0.92
2.	RNDr. Fedor Čiampor, PhD	30.11.2015	0.92
3.	RNDr. Zuzana Čiamporová-Zaťovičová, PhD.	30.11.2015	0.92
4.	RNDr. Marta Illyová, PhD.	30.11.2015	0.92
5.	RNDr. Stanislav Kalúz, CSc.	30.6.2015	0.25
6.	RNDr. Mirko Slovák, CSc.	30.6.2015	0.06

Vedeckí pracovníci			
1.	Mgr. Helena Čičková, PhD.	30.11.2015	0.92
2.	Mgr. Ladislav Pekárik, Ph.D	30.11.2015	0.92
3.	Mgr. Eva Špitalská, PhD.	30.4.2015	0.03
4.	Ing. Juraj Varinský, CSc.	30.6.2015	0.50
Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Lenka Berthová	30.4.2015	0.04
2.	Ing. Dana Groschova	30.6.2015	0.50
3.	Mgr. Eva Miklošová	30.6.2015	0.50
4.	RNDr. Mária Oriešková	31.12.2015	-
5.	Mgr. Barbora Rajčková	30.4.2015	0.30
6.	Mgr. Marek Regula	31.12.2015	-
Odborní pracovníci ÚSV			
1.	Juraj Kaps	30.6.2015	0.25

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Michaela Bartíková	Prírodovedecká fakulta UK	4.2.5 zoológia
2.	Mgr. Branislav Bednár	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
3.	Mgr. Marcela Bučková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
4.	Mgr. Daniel Čižmár	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
5.	Mgr. Zuzana Gáliková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
6.	Mgr. Katarína Goffová	Prírodovedecká fakulta UK	4.2.5 zoológia
7.	Mgr. Michal Chvostáč	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
8.	Mgr. Katarína Miťková	Prírodovedecká fakulta UK	4.2.5 zoológia
9.	Mgr. Zuzana Svitáľková	Prírodovedecká fakulta UK	4.2.5 zoológia
10.	Mgr. Darina Šipošová	Prírodovedecká fakulta UK	4.2.5 zoológia
11.	Mgr. Tatiana Vaculová	Prírodovedecká fakulta UK	4.2.5 zoológia
Interní doktorandi hradení z iných zdrojov			
<i>organizácia nemá interných doktorandov hradených z iných zdrojov</i>			
Externí doktorandi			
1.	Mgr. Ivana Baráková	Prírodovedecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Juraj Čačaný	Prírodovedecká fakulta UK	4.2.5 zoológia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Molekulárna epidemiológia spirochét lyskej boreliózy v Európe (*Molecular epidemiology of lyme borreliose spirochetes in Europe*)

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.1.2014 / 31.12.2015
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Nationales Referenz Zentrum für Borrelia
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

Programy: IAEA

2.) Zvýšenie vektorovej odolnosti na trypanozómovú infekciu (*Enhancing vector refractoriness to trypanosome infection*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 15.11.2014 / 15.11.2016
Evidenčné číslo projektu: 17713
Organizácia je koordinátorom projektu: nie
Koordinátor: International Atomic Energy Agency
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: IAEA: 19600 €
Podpora medzinárodnej spolupráce z národných zdrojov: 1400 €

Dosiahnuté výsledky:

V spolupráci s Yale University bola skúmaná biosyntéza prolínu v bodavkách tse-tse, ktoré sú hlavným prenášačom spavej choroby. Prolín nachádzajúci sa u nich v hemolymfe slúži ako jediný zdroj energie a jeho biosyntéza zahŕňa enzým alanín-glyoxylát aminotransferázu (agat), ktorá vyžaduje, pyridoxal fosfát (vitamín B6) ako kofaktor. Tento kofaktor je syntetizovaný pomocou endosymbiotickej baktérie *Wigglesworthia*. Odstránením týchto endosymbiontov pomocou antibiotickej liečby múch sme získali aposymbiotické muchy, čo viedlo k zníženiu hladiny vitamínu B6 a prejavu hypoprolinémie u laktujúcich samíc, čím sa výrazne znížila plodnosť. Homeostázu hladiny prolínu a plodnosť bolo možné čiastočne obnoviť pri dokrmovaní potravou obohatenou o kvasnicový extrakt. Peptidový hormón inzulín, ktorý má u hmyzu kľúčovú úlohu v celkovom metabolizme, je však najznámejší svojou funkciou regulovať metabolizmus sacharidov. V našich pokusoch sme pomocou exogénneho inzulínu ovplyvnili hladinu prolínu u prírodných a

aposymbiotických múch, pričom aposymbiotické muchy neboli schopné reagovať na liečbu inzulínom. Supplementácia krvi s kvasnicovým extraktom uvoľnila hypoprolinému a muchy boli citlivé na liečbu inzulínom.

Získané výsledky sú obsiahnuté v publikácii:

- Benoit, J.B., Attardo, G.M., Baumann, A.A., Michalkova, V., Aksoy, S. (2015) Adenotrophic Viviparity in Tsetse Flies: Potential for Population Control and as an Insect Model for Lactation. *Annual Review of Entomology* 60: 351-371. (13.73 - IF 2015)

Programy: 7RP

3.) Biológia a kontrola vektormi prenášaných infekcií v Európe

(*Biology and control of vector-borne infections in Europe*)

Zodpovedný riešiteľ:	Mária Kazimírová
Trvanie projektu:	1.1.2011 / 30.6.2015
Evidenčné číslo projektu:	261504
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centre de Cooperation International en Recherche Agronomique pour le Developpement (CIRAD)
Počet spoluriešiteľských inštitúcií:	30 - Belgicko: 3, Česko: 3, Nemecko: 5, Francúzsko: 7, Veľká Británia: 3, Maďarsko: 3, Taliansko: 3, Slovensko: 3
Čerpané financie:	APVV: 12866 € Podpora medzinárodnej spolupráce z národných zdrojov: 2000 €

Dosiahnuté výsledky:

- Vayssier-Taussat M., Kazimirova M., Hubalek Z., Hornok S., Farkas R., Cosson J.-F., Bonnet S., Vourch G., Gasqui P., Mihalca A.D., Plantard O., Silaghi C., Cutler S., Rizzoli A. Emerging horizons for tick-borne pathogens: from the 'one pathogen–one disease' vision to the pathobiome paradigm. *Future Microbiol.* (2015) 10:2033–43.
- Bell-Sakyi L., Palomar A.M., Kazimirova M. Isolation and propagation of a *Spiroplasma* sp. from Slovakian *Ixodes ricinus* ticks in *Ixodes* spp. cell lines. *Ticks and Tick-borne Diseases* (2015) 6: 601–606.
- Mit'ková K., Berthová L., Kalúz S., Kazimírová M., Burdová L., Kocianová E. First detections of *Rickettsia helvetica* and *R. monacensis* in ectoparasitic mites (Laelapidae and Trombiculidae) infesting rodents in south-western Slovakia. *Parasitology Research* (2015) 114:2465–2472.

Projekty národných agentúr

Programy: VEGA

1.) Stanovenie biologickej hodnoty odvodňovacích kanálov

(Assessment of biological value of drainage ditches)

Zodpovedný riešiteľ: Tomáš Čejka
Trvanie projektu: 1.1.2014 / 30.12.2017
Evidenčné číslo projektu: 2/0102/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1761 €

Dosiahnuté výsledky:

2.) Taxonómia a fylogenéza rodov *Roraima Kodada & Jäch* a *Neblinagena Spangler*

(Coleoptera: Elmidae)

(Taxonomy and phylogeny of genera Roraima Kodada & Jäch and Neblinagena Spangler (Coleoptera: Elmidae))

Zodpovedný riešiteľ: Fedor Čiampor
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 1/0395/14
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta, Univerzita Komenského
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1552 €

Dosiahnuté výsledky:

3.) Malé vysokohorské jazerá - citlivé indikátory environmentálnych zmien: bentické bezstavovce a faktory ovplyvňujúce rôzne úrovne ich diverzity

(Alpine ponds – sensitive indicators of environmental changes: macroinvertebrates and determinants of their multilevel diversity)

Zodpovedný riešiteľ: Zuzana Čiamporová-Zaťovičová
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: VEGA 2/0081/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: VEGA: 8879 €

Dosiahnuté výsledky:

4.) Vplyv typu hniezda, hniezdného prostredia a antimikrobiálnych látkových a behaviorálnych mechanizmov na bakteriálne spoločenstvá povrchu vajec vybraných druhov vtákov. (*Influence of nest type, nesting habitat, antimicrobial substances and behavioral mechanisms on bacterial assemblages living on egg surface in selected bird species*)

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0034/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4718 €

Dosiahnuté výsledky:

5.) Ostrovná biogeografia izolovaných vodných plôch
(*Island biogeography of the isolated water bodies*)

Zodpovedný riešiteľ: Marta Illyová
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0113/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4467 €

Dosiahnuté výsledky:

6.) Hmyz ako alternatívny zdroj bielkovín

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0171/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7228 €

Dosiahnuté výsledky:

7.) Vplyv experimentálnych manipulácií jedincov hematofágneho ektoparazita *Carnus hemapterus* a saprofágnych/nektofágnych lariev dvojkrídlovcov na imunologické a kondičné parametre mláďat včelárika zlatého (*Merops apiaster*)

*(Influence of experimental manipulations of abundance of the haematophagous ectoparasite *Carnus hemapterus* and of saprophagous/necrophagous diptersn larvae on immunological and conditional parameters of European bee-eaters chicks (*Merops apiaster*))*

Zodpovedný riešiteľ: Ján Krištofik
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0137/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4673 €

Dosiahnuté výsledky:

8.) Antibakteriálne a imunomodulačné vlastnosti včelieho peptidu defenzínu-1 v procese hojenia chronických rán

(Antibacterial and immunomodulatory properties of bee defensin-1 in chronic wound healing process)

Zodpovedný riešiteľ: Juraj Majtán
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0007/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5902 €

Dosiahnuté výsledky:

9.) Taxonómia, ekológia a chorológia arborikolných roztočov (*Acari: Mesostigmata*) žijúcich vo vzťahu s drevokazným hmyzom a hubami v podmienkach Slovenska. (*Arboricolous mites (Acari: Mesostigmata) associated with wood-destroying insects and fungi in Slovakia, with consideration on taxonomy, ecology and chorology of individual species.*)

Zodpovedný riešiteľ: Peter Mašán
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0091/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4473 €

Dosiahnuté výsledky:

10.) Evolučný význam predácie na životné stratégie rýb

(Evolutionary importance of predation rate on life history adaptations of fishes)

Zodpovedný riešiteľ: Ladislav Pekárik
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0124/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4447 €

Dosiahnuté výsledky:

11.) Kompetícia spermií a sexuálny kanibalizmus u modlivky zelenej (*Mantis religiosa*)

Zodpovedný riešiteľ: Pavol Prokop
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 2/0033/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3434 €

Dosiahnuté výsledky:

12.) Identifikácia a expresia neuropeptidov v priadke morušovej (*Bombyx mori*) (*Identification and expression of neuropeptides in the silkworm (Bombyx mori)*)

Zodpovedný riešiteľ: Ladislav Roller
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0121/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5988 €

Dosiahnuté výsledky:

13.) Interakcie medzi kliešťami prenášanými mikroorganizmami a mechanizmy ich prenosu
(*Interactions between tick-borne microorganisms and mechanisms of their transmission*)

Zodpovedný riešiteľ: Veronika Rusňáková Taragel'ová
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0108/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9291 €

Dosiahnuté výsledky:

14.) Antropické zmeny prostredia v banskoštiavnickej banskej oblasti počas posledných 250 rokov: paleolimnologická rekonštrukcia s využitím biologických a abiotických indikátorov zo sedimentov vodných nádrží

Zodpovedný riešiteľ: Ferdinand Šporka
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 1/0664/15
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta prírodných vied UMB
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1015 €

Dosiahnuté výsledky:

15.) Vplyv dlhodobých zmien na riečne kontinuum (diskontinuum) veľkých slovenských riek
(*The Influence of long-termed changes on the river continuum (discontinuum) of large Slovakian rivers*)

Zodpovedný riešiteľ: Ferdinand Šporka
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: 1/0176/12
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1015 €

Dosiahnuté výsledky:

16.) Krátkodobé a strednodobé výkyvy klimatických faktorov ako regulátor

Zodpovedný riešiteľ: Zbyšek Šustek
Trvanie projektu: 1.1.2014 / 31.12.2016
Evidenčné číslo projektu: 2/0101/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2114 €

Dosiahnuté výsledky:

17.) Šváby (Blattaria) z čeľade Nocticolidae – revízia, výskyt, rozšírenie, ekologické nároky (*Cockroaches (Blattaria) from the family Nocticolidae – revision, occurrence, distribution and ecological requirements*)

Zodpovedný riešiteľ: Ľubomír Vidlička
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0186/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5000 €

Dosiahnuté výsledky:

18.) Funkcia H-orgánu a katecholamínov pri správaní a vývine hmyzu.

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.1.2013 / 31.12.2015
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7287 €

Dosiahnuté výsledky:

Programy: APVV

19.) Drobné cicavce ako potenciálny zdroj zoonotických baktérií a rezistencie na antibiotiká

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.7.2015 / 30.6.2019
Evidenčné číslo projektu: APVV-14-0274
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 5943 €

Dosiahnuté výsledky:

20.) Bezpesticídová kontrola populácií muchy domácej a bodavky stajňovej v chovoch hospodárskych zvierat na Slovensku

(Pesticide-free control of the house fly and stable fly populations on livestock farms in Slovakia)

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 1.7.2015 / 30.6.2018
Evidenčné číslo projektu: APVV-14-0652
Organizácia je koordinátorom projektu: nie
Koordinátor: Scientica,s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 12755 €

Dosiahnuté výsledky:

21.) Klinické testovanie slovenského medovicového medu

(Clinical testing of slovak honeydew honey)

Zodpovedný riešiteľ: Juraj Majtán
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0115-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: APVV: 29002 €

Dosiahnuté výsledky:

22.) Manažment a ochrana dunajských jeseterov
(*Danube sturgeons management and protection*)

Zodpovedný riešiteľ: Ladislav Pekárik
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0820-13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 38294 €

Dosiahnuté výsledky:

23.) Využitie transgénnych postupov pri funkčnej analýze neuropeptidov a ich receptorov regulujúcich správanie a vývin hmyzu
(*Utilization of transgenic approaches for functional analysis of neuropeptides and their receptors regulating behavior and development in insects*)

Zodpovedný riešiteľ: Ladislav Roller
Trvanie projektu: 1.7.2012 / 31.12.2015
Evidenčné číslo projektu: APVV-0827-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 37058 €

Dosiahnuté výsledky:

24.) Biologický význam a farmakologické vlastnosti proteínov v slinách kliešťov
(*Biological significance and pharmacological features of proteins in tick saliva*)

Zodpovedný riešiteľ: Iveta Štibrániová
Zodpovedný riešiteľ v organizácii SAV: Mária Kazimírová
Trvanie projektu: 1.10.2013 / 30.9.2017
Evidenčné číslo projektu: APVV-0737-12
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 4945 €

Dosiahnuté výsledky:

25.) 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: 29465 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Výskum a vývoj

26.) Univerzitný vedecký park Univerzity Komenského v Bratislave

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 1.6.2013 / 31.12.2015
Evidenčné číslo projektu: ITMS 26240220086
Organizácia je koordinátorom projektu: nie
Koordinátor: Univerzita Komenského
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: ŠF: 74971 €

Dosiahnuté výsledky:

27.) Vybudovanie výskumno-vývojovej infraštruktúry pre výskum genetickej biodiverzity organizmov a zapojenie do iniciatívy IBOL

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 1.10.2015 / 31.12.2015
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Slovenské národné múzeum, Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: ŠF: 666000 €

Dosiahnuté výsledky:

28.) Výskum a vývoj nových bioterapeutických metód a ich využitie pri liečbe niektorých závažných ochorení

(Research and development of new bioterapeutic methods and its application in some illnesses treatment)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 1.6.2010 / 30.6.2015
Evidenčné číslo projektu: ITMS-262400220030
Organizácia je koordinátorom projektu: nie
Koordinátor: Scientica, s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: ŠF: 52517 €

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

- AAA01 NEIL, Alexander - ALLEPUZ, Alberto - ALTEN, Bulent - BØDKER, Rene - BONNET, Sarah - CARPENTER, Simon - CÊTRE-SOSSAH, Catherine - CHIROUZE, Emilie - DEPAQUIT, Jérôme - DRESSEL, Kerstin - DUCHEYNE, Els - DVOŘÁK, Vít - KASAP, Ozge Erisoz - GALL, Yvonne - FALL, Assane Gueye - FARKAS, Robert - FIGUEROLA, Jordi - GARROS, Claire - GROSCHUP, Martin H. - HALADA, P. - HENDRICKX, Guy - HENTTONEN, Heikki - HLAVÁČKOVÁ, Kristyna - HORNOK, Sándor - HUBÁLEK, Zdeněk - ILTIS, Nicole - KAZIMÍROVÁ, Mária - KLEY, Nils. The impact of a decade of research (2004-2015) on vector-borne diseases. EDEN and EDENext, 2015. 132 p. ISBN 978-2-87614-707-2.

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 MAJZLAN, Oto. Chrobáky (Coleoptera) Tatier. Ústav zoológie SAV (vydavateľ). Bratislava : Ústav zoológie SAV : Scientica, s.r.o., 2015. 224 str. ISBN 978-80-971483-0-0.
- AAB02 VIDLIČKA, Ľubomír. Sieťokridlovce (Neuroptera) Tatier. Bratislava : Ústav zoológie SAV, Bratislava : Scientica, s.r.o., 2015. 109 pp. ISBN 978-80-970326-5-4.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 BALLOUARD, Jean-Marie - MULLIN, Stephen J. - AJTIC, Rastko - BRITO, José Carlos - ELMOUDEN, El Hassan - ERDOGAN, Mehmet - FERICHE, Monica - PLEGUEZUELOS, Juan M. - PROKOP, Pavol. Factors Influencing Schoolchildren's Responses to a Questionnaire in Wildlife Conservation Education. In International Journal of Science Education, 2015, vol. 37, no. 3, p. 469–483,. (1.132 - IF2014). (2015 - Current Contents). ISSN 0950-0693.
- ADCA02 BELL-SAKYI, Lesley - PALOMAR, Ana M. - KAZIMÍROVÁ, Mária. Isolation and propagation of a Spiroplasma sp. from Slovakian Ixodes ricinus ticks in Ixodes spp. cell lines. In Ticks and Tick-Borne Diseases, 2015, vol. 6, iss. 5, p. 601–606. (2.718 - IF2014). (2015 - Current Contents). ISSN 1877-959X.
- ADCA03 BENOIT, Joshua B. - ATTARDO, Geoffrey M. - BAUMANN, Aaron A. - MICHALKOVÁ, Veronika - AKSOY, Serap. Adenotrophic Viviparity in Tsetse Flies: Potential for Population Control and as an Insect Model for Lactation. In Annual review of entomology : [serial], 2015, vol. 60, no., p. 351–371. (13.731 - IF2014). ISSN 0066-4170.
- ADCA04 ČIČKOVÁ, Helena - KOZÁNEK, Milan - TAKÁČ, Peter. Growth and survival of blowfly *Lucilia sericata* larvae under simulated wound conditions: implications for maggot debridement therapy. In Medical and Veterinary Entomology, 2015, vol. 29, iss. 4, p. 416-424. (2.860 - IF2014). (2015 - Current Contents). ISSN 0269-283X.
- ADCA05 ČIČKOVÁ, Helena - NEWTON, Larry G. - LACY, Curt R. - KOZÁNEK, Milan. The use of fly larvae for organic waste treatment: review. In Waste Management, 2015, vol. 35, no., p. 68–80. (3.220 - IF2014). (2015 - Current Contents). ISSN 0956-053X.
- ADCA06 ČILIAK, Marek - ČEJKA, Tomáš - ŠTEFFEK, Jozef. Molluscan diversity in stream driftwood: relation to land use and river section. In Polish Journal of Ecology, 2015,

- vol. 63, no. 1, p. 124-134. (0.567 - IF2014). (2015 - Current Contents). ISSN 1505-2249.
- ADCA07 DANISOVÁ, O. - VALEŇČÁKOVÁ, A. - STANKO, Michal - LUPTÁKOVÁ, L. - HASAJOVÁ, A. First report of Enterocytozoon bienewisi and Encephalitozoon intestinalis infection of wild mice in Slovakia. : Short Communication. In Annals of Agricultural and Environmental Medicine, 2015, vol. 22, no. 2, p. 250–251. (1.126 - IF2014). (2015 - Current Contents). ISSN 1232-1966.
- ADCA08 GOFFOVÁ, K. - BITUŠÍK, Peter - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana - BUKVOVÁ, Dana - HAMERLÍK, Ladislav. Seasonal dynamics and life cycle of Heterotrissocladius marcidus (Diptera: Chironomidae) in high altitude lakes (High Tatra Mts, Slovakia). In Biologia (Poland), 2015, vol. 70, no. 7, p. 943—947. (0.827 - IF2014). (2015 - Current Contents). ISSN 0006-3088.
- ADCA09 GOFFOVÁ, K. - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana - ČIAMPOR, Fedor, ml.. Twenty-one new microsatellite markers for the ecologically important midge Heterotrissocladius marcidus, and their use in studies of alpine lakes. In Biochemical Systematics and Ecology, 2015, vol. 61, p. 329-335. (0.967 - IF2014). (2015 - Current Contents). ISSN 0305-1978.
- ADCA10 GREENWALT, Dale E. - VIDLIČKA, Ľubomír. Latiblattella avita sp. nov. (Blattaria: Ectobiidae) from the Eocene Kishenehn Formation, Montana, USA. In Palaeontologia Electronica, 2015, vol. 18, iss. 1, article no.: 16A, 9 pp. (2.081 - IF2014). (2015 - Current Contents). ISSN 1094-8074 (web version).
- ADCA11 HALAČKA, Karel - PEKÁRIK, Ladislav. Length-weight relationship of Cobitis elongatoides Heckel & Kner, 1858 from a pure diploid population in the Nová Říše Reservoir, Czech Republic. In Journal of Applied Ichthyology, 2015, vol. 31, iss. 3, p. 562-564. (0.867 - IF2014). (2015 - Current Contents). ISSN 0175-8659.
- ADCA12 HOI, Herbert - KRIŠTOFÍK, Ján - DAROLOVÁ, Alžbeta. All you can eat: is food supply unlimited in a colonially breeding bird? In Ecology and Evolution, 2015, vol. 5, iss. 2, p. 450-458. (2.320 - IF2014). (2015 - Current Contents). ISSN 2045-7758.
- ADCA13 KALÚZ, Stanislav - ŠEVČÍK, Martin. A new species of Grandjeana (Acari: Trombiculidae) from heart-nosed bat (Chiroptera: Megadermatidae) in Ethiopia (Africa) with notes to biogeography of this genus. In Biologia : journal of the Slovak Academy of Sciences, 2015, vol. 70, no. 3, p. 380-385. (0.827 - IF2014). (2015 - Current Contents). ISSN 0006-3088.
- ADCA14 KRNO, Il'ja - LÁNCZOS, Tomáš - ŠPORKA, Ferdinand. Windstorm disturbance effects on mountain stream ecosystems and the Plecoptera assemblages. In Biologia (Poland), 2015, vol. 70, no. 9, p. 1215-1227. (0.827 - IF2014). (2015 - Current Contents). ISSN 0006-3088.
- ADCA15 KÚDELOVÁ, Marcela - BELVONČÍKOVÁ, Petra - VRBOVÁ, M. - KOVALOVÁ, A. - ŠTIBRÁNIOVÁ, Iveta - KOCÁKOVÁ, Pavlína - SLOVÁK, Mirko - ŠPITÁLSKA, Eva - LAPUNÍKOVÁ, Barbora - MATÚŠKOVÁ, R. - ŠUPOLÍKOVÁ, Miroslava. Detection of Murine Herpesvirus 68 (MHV-68) in Dermacentor reticulatus Ticks. In Microbial Ecology, 2015, vol. 70, no. 3, p. 785-795. (2.973 - IF2014). (2015 - Current Contents). ISSN 0095-3628.
- ADCA16 LEE, Kang-Min - DAUBNEROVÁ, Ivana - ISAAC, R. Elwyn - ZHANG, Chen - CHOI, Sekyu - CHUNG, Jongkyeong - KIM, Young-Joon. A Neuronal Pathway that Controls Sperm Ejection and Storage in Female Drosophila : Report. In Current Biology, 2015, vol. 25, no., p. 790-797. (9.571 - IF2014). (2015 - Current Contents). ISSN 0960-9822.
- ADCA17 MAJTÁNOVÁ, Nora - VODRÁŽKOVÁ, Erika - KURILOVÁ, V. - HORNIAČKOVÁ, Miroslava - ČERNÁK, Martin - ČERNÁK, Andrej - MAJTÁN, Juraj. Complementary treatment of contact lens-induced corneal ulcer using honey: A case report. In Contact Lens & Anterior Eye : Official Journal of the British

- Contact Lens Association, 2015, vol. 38, iss. 1, p. 61-63. (1.367 - IF2014). (2015 - Current Contents). ISSN 1367-0484.
- ADCA18 MIŤKOVÁ, K - BERTHOVÁ, Lenka - KALÚZ, Stanislav - KAZIMÍROVÁ, Mária - BURDOVÁ, L - KOCIANOVÁ, Elena. First detections of Rickettsia helvetica and R. monacensis in ectoparasitic mites (Laelapidae and Trombiculidae) infesting rodents in south-western Slovakia. In Parasitology Research, 2015, vol. 114, no. 7, p. 2465–2472. (2.098 - IF2014). (2015 - Current Contents). ISSN 0932-0113.
- ADCA19 PEKÁRIKOVÁ, Danica - RAJSKÁ, Petra - KAZIMÍROVÁ, Mária - PECHÁŇOVÁ, Oľga - TAKÁČ, Peter - NUTTALL, Patricia A. Vasoconstriction induced by salivary gland extracts from ixodid ticks. In International Journal for Parasitology, 2015, vol. 45, iss. 14, p. 879–883. (3.872 - IF2014). (2015 - Current Contents). ISSN 0020-7519.
- ADCA20 RIBEIRO, J. M. C - KAZIMÍROVÁ, Mária - TAKÁČ, Peter - ANDERSEN, John F. - FRANCISCHETTI, I. M. B. An insight into the sialome of the horse fly, Tabanus bromius. In Insect Biochemistry and Molecular Biology, 2015, vol. 65, p. 83-90. (3.450 - IF2014). (2015 - Current Contents). ISSN 0965-1748.
- ADCA21 ROLLER, Ladislav - ŠIMO, Ladislav - MIZOGUCHI, Akira - SLOVÁK, Mirko - PARK, Yoonseong - ŽITŇAN, Dušan. Orcokinin-like immunoreactivity in central neurons innervating the salivary glands and hindgut of ixodid ticks. In Cell and Tissue Research, 2015, vol. 360, iss. 2, p. 209-222. (3.565 - IF2014). (2015 - Current Contents). ISSN 0302-766X.
- ADCA22 SECK, Momar Talla - PAGABELEGUEM, Soumaïla - BASSENE, Mireille D. - ASSANE GUEYE, Fall - DIOUF, Thérèse A. R. - SALL, Baba - VREYSEN, Marc J. B. - RAYAISSÉ, Jean-Baptiste - TAKÁČ, Peter - SIDIBÉ, Issa - PARKER, Andrew G. - MUTIKA, Gratian N. - BOUYER, Jérémy - GIMONNEAU, Geoffrey. Quality of Sterile Male Tsetse after Long Distance Transport as Chilled, Irradiated Pupae. In Plos Neglected Tropical Diseases : a peer -reviewed open-access journal published by the Public Library of Sciences, 2015, vol. 9, no. 11, article no: e0004229. (4.446 - IF2014). (2015 - Current Contents). ISSN 1935-2735 (electronic version).
- ADCA23 SENAY, Ibrahim - USAK, Muhammet - PROKOP, Pavol. Talking About Behaviors in the Passive Voice Increases Task Performance. In Applied Cognitive Psychology, 2015, vol. 29, p. 262–270. (1.321 - IF2014). (2015 - Current Contents). ISSN 0888-4080.
- ADCA24 SHAH, Rushita - KRONEKOVÁ, Zuzana - ZAHORANOVÁ, Anna - ROLLER, Ladislav - SAHA, Nabanita - SAHA, Petr - KRONEK, Juraj. In vitro study of partially hydrolyzed poly(2-ethyl-2-oxazolines) as materials for biomedical applications. In Journal of Materials Science: Materials in Medicine, 2015, vol. 26, iss. 4, art.no. 157. (2.587 - IF2014). (2015 - Current Contents). ISSN 0957-4530.
- ADCA25 ŠPITÁLSKA, Eva - BOLDIŠ, Vojtech - MOŠANSKÝ, Ladislav - SPARAGANO, O. - STANKO, Michal. Rickettsia species in fleas collected from small mammals in Slovakia. In Parasitology Research, 2015, vol.114, no.11, p.4333-43339. (2.098 - IF2014). (2015 - Current Contents). ISSN 0932-0113.
- ADCA26 TAN, A. W. L. - FRANCISCHETTI, I. M. B. - SLOVÁK, Mirko - KINI, R.M. - RIBEIRO, J. M. C. Sexual differences in the sialomes of the zebra tick, Rhipicephalus pulchellus. In Journal of Proteomics, 2015, vol. 117, no., p. 120 – 144. (3.888 - IF2014). (2015 - Current Contents). ISSN 1874-3919.
- ADCA27 VIDO, Jaroslav - TADESSE, Tsegaye - ŠUSTEK, Zbyšek - KANDRÍK, Radoslav - HANZELOVÁ, M. - ŠKVARENINA, Jaroslav - ŠKVARENINOVÁ, Jana - HAYES, Michael. Drought Occurrence in Central European Mountainous Region (Tatra National Park, Slovakia) within the Period 1961–2010. In Advances in Meteorology, 2015, vol. 2015 no., article ID 248728, 8 pp. (0.946 - IF2014). (2015 - Current Contents).

ADEB Vedecké práce v ostatných zahraničných časopisoch neimpaktovaných

- ADEB01 RUSSELL, P. - ŽITŇAN, Dušan - MAJOR, V. Confirmation of the presence of *Melitaea ornata* Christoph, 1893 (Lepidoptera: Nymphalidae) in Macedonia (FYROM) and its host-plants. In *Entomologists Gazette*, 2015, vol. 66, iss.1, pp. 13-24. ISSN 0013-8894.
- ADEB02 SEMELBAUER, Marek. Two species of *Sapromyza* new to Slovakia with note on *S. zetterstedti* Hendel 1908. In *Acta Musei Silesiae, Scientiae Naturales : The Journal of Silesian Museum in Opava*, 2015, vol. 64, iss. 1, p. 75-79. ISSN 2336-3193 (print).
- ADEB03 ŠUSTEK, Zbyšek. Periodic and non-periodic changes in carabid communities from the norway spruce forests of the high tatra in the zone damaged by windstorms Muzeul Olteniei Craiova. In *Oltenia : Studii și comunicări Științele Naturii*, 2015, vol. 31, no. 1, p. 87-104. ISSN 1454-6914.

ADFA Vedecké práce v ostatných domácich časopisoch impaktovaných

- ADFA01 BOHÁČ, Martin - ČAMBÁL, M. - ZAMBORSKÝ, Radoslav - TAKÁČ, Peter - FEDELEŠ, J. Maggot therapy in treatment of a complex hand injury complicated by mycotic infection. In *Bratislava Medical Journal*, 2015, vol. 116, iss. 11, p. 671–673. (0.439 - IF2014). ISSN 0006-9248.

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9. [1.2] Reppert, E.a, Galindo, R.C.b, Ayllón, N.c, Breshears, M.A.b, Kocan, K.M.b , Blouin, E.F.b, de la Fuente, J. *Studies of Anaplasma phagocytophilum in sheep experimentally infected with the human NY-18 isolate: Characterization of tick feeding sites* *Ticks and Tick-borne Diseases* Volume 5, Issue 6, 1 October 2014, Pages 744-752, SCOPUS
10. [1.2] Terry, F.E.a, Moise, L.ab, Martin, R.F.a, Torres, M.c, Pilotte, N.c, Williams, S.A.c, De Groot, A.S. *Time for T? Immunoinformatics addresses vaccine design for neglected tropical and emerging infectious diseases* *Expert Review of Vaccines* Volume 14, Issue 1, 1 January 2014, Pages 21-35, SCOPUS
11. [3] DÍAZ MARTÍN, Veronica (2014) *Análisis de la saliva de Ornithodoros moubata y producción de antígenos recombinantes para el desarrollo de test serológicos y vacunas antigarrapata. Tesis doctorales IRNASA. Editor: CSIC - Instituto de Recursos Naturales y Agrobiología de Salamanca (IRNASA). 208 pp.*

***AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch (aj konferenčných), monografiách**

- AEC01 ADAMS, A. E. - KIM, Y. J. - PARK, Yoonseong - ŽITŇAN, Dušan. *Developmental Peptides: ETH, Corazonin, and PTHH*. In *Handbook of Biologically Active Peptides (Second Edition)*. Abba J. Kastin (ed). - Elsevier Inc, 2006, 2013, chapter 33, p. 222-228. ISBN 978-0-12-369442-3.

Citácie:

1. [1.2] AREIZA, M., NOUZOVA, M., RIVERA-PEREZ, C., NORIEGA, F.G (2014) Ecdysis triggering hormone ensures proper timing of juvenile hormone biosynthesis in pharate adult mosquitoes. *INSECT BIOCHEMISTRY AND MOLECULAR BIOLOGY* Volume 54, September 23, 2014, Pages 98-105 DOI: 10.1016/j.ibmb.2014.09.006, SCOPUS

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

AECA01 ŠUSTEK, Zbyšek. Niekoľko úvah o používaní zemných pascí k odchytu epigeického hmyzu. In Výskum lesných geobiocenóz. Zborník z konferencie. - Brno : lesnícka fakulta VŠZ Brno, 1994, s. 25-28.

Citácie:

1. [1.1] BARANOVÁ, B., MANKO P., JÁSZAY, T., 2014: Differences in surface-dwelling beetles of grasslands invaded and non-invaded by goldenrods (*Solidago canadensis*, *S. gigantea*) with special reference to Carabidae. *J INSECT CONSERV*, 13 str., DOI 10.1007/s10841-014-9666-0, WOS
2. [3.2] MOISE, C. & TÂNASE M., 2013: Researches on the epigeous entomofauna in the "Dumbrava Sibiului" oak forest (Sibiu county, Romania). *ANALELE UNIVERSITĂȚII DIN ORADEA, Fascicula Biologie* 20 Ú2Ů 89-96.
3. [4] PETERKOVÁ, V., 2014: *Ekologické faktory ovplyvňujúce spoločenstvá chrobákov. Vedecká monografia, Vyd. TYPI UNIVERSITATIS TYRNAVIENSIS.* 84 s. ISBN 978-80-8082-829-5.

***AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch (aj konferenčných), monografiách**

AED01 KRNO, Il'ja - TIRJAKOVÁ, Eva - ŠPORKA, Ferdinand - BULÁNKOVÁ, Eva. Hydrobiologické zhodnotenie biodiverzity bentosu a kvality vôd povodia Turca. In Turiec 1996 : Zborník príspevkov zo seminára "30 rokov ochrany rieky Turiec a jeho povodia". Kadlečík Ján. - Bratislava, Banská Bystrica : Ministerstvo životného prostredia SR, Slovenská agentúra životného prostredia, 1996, s. 45-66. ISBN 808883306X.

Citácie:

1. [4.1] ŽIAK Matej (2014) *Spoločenstvá pošvatiek (Plecoptera) povodia rieky Turiec. Zborník Slovenského Národného múzea v Martine, Kmetianum. XIII (2014): 206-215*

AED02 VIDLIČKA, Ľubomír. Sieť okridlovce (Neuroptera) dlhokrčky (Raphidioptera) a srpice (Mecoptera) Martinského lesa (Podunajská rovina). In *Príroda Martinského lesa (vybrané kapitoly)*. Fedor Peter, Vidlička Ľubomír (eds). - Bratislava : Ústav Zoológie SAV, 2012, 141-146 pp. ISBN 978-80-970326-2-3.

Citácie:

1. [4] FEDOR, P., DORIČOVÁ, M., FEDOROVÁ, J. (2014) *O poklade Martinského lesa pri Senci alebo úvod ku štúdiu zoocenóz Evertebrata v refúgiu podhorskej dúbavy (s osobitným zreteľom na Thysanoptera jako modelový rad)*, pp. 229-238. In: STREŠŇÁK, G. (ed.) *Senec. Stáročia mesta. Zborník štúdií. Mesto Senec.* 288 str. ISBN 978-80-971518-5-0

AED03 VIDLIČKA, Ľubomír. Sezónne zmeny vo výskyte švábika hôrneho (*Ectobius sylvestris*) (Blattaria) v Martinskom lese (Podunajská rovina). In *Príroda Martinského lesa (vybrané kapitoly)*. Fedor Peter, Vidlička Ľubomír (eds). - Bratislava : Ústav Zoológie SAV, 2012, 115-120 pp. ISBN 978-80-970326-2-3.

Citácie:

1. [4] FEDOR, P., DORIČOVÁ, M., FEDOROVÁ, J. (2014) O poklade Martiského lesa pri Senci alebo úvod ku štúdiu zoocenóz Evertebrata v refúgiu podhorskej dúbravy (s osobitným zreteľom na Thysanoptera jako modelový rad), pp. 229-238. In: STREŠŇÁK, G. (ed.) Senec. Stáročia mesta. Zborník štúdií. Mesto Senec. 288 str. ISBN 978-80-971518-5-0

***AEE Vedecké práce v zahraničných nerecenzovaných vedeckých zborníkoch (aj konferenčných), monografiách**

AEE01 KOZÁNEK, Milan - JURÁNI, Marián - SOMOGYIOVÁ, Erika. Effect of long-term stress on monoamine concentration in CNS of cockroach *Nauphoeta cinerea*. In Endocrinological frontiers in physiological insect ecology : proceedings of the international conference : organized and sponsored by the research programme "Low-Molecular Bioregulators of Cellular metabolism". František Sehnal Andrzej Zabza David L Denlinger (eds). - Technical University of Wroclaw, 1988, 1988, vol. 1, p. 161-169. ISSN 03249824.

Citácie:

1. [3.2] KOCH Mongiardino, Nicolás, HASSON Esteban, SOTO Ignacio M. (2012) Differences in wing melanization and pigmentation pattern in *Drosophila buzzatii* (Diptera: Drosophilidae) under chemical stress

AFA Publikované pozvané príspevky na zahraničných vedeckých konferenciách

AFA01 KRNO, Il'ja - ŠPORKA, Ferdinand - TIRJAKOVÁ, Eva - BULÁNKOVÁ, Eva. Zvýšená erózia v povodí horného toku Turca a jej vplyv na organizmy riečného dna. In International Symposium „River Bottom III“ : Proceedings, 1993, p. 29-33.

Citácie:

1. [4.1] ŽIAK Matej (2014) Spoločenstvá pošvatiek (Plecoptera) povodia rieky Turiec. Zborník Slovenského Národného Múzea v Martine, Kmetianum. XIII (2014): 206-215

AFC Publikované príspevky na zahraničných vedeckých konferenciách

AFC01 ŠUSTEK, Zbyšek. Estimate of the ground beetle (Coleoptera, Carabidae) community parameters for evaluation of optimisation measures in flood plains affected by the Gabčíkovo barrage system. In X. posterový deň s medzinárodnou účasťou "Transport vody, chemikálií a energie v systéme pôda-rastlina-atmosféra. 28.11.2002. Bratislava, p. 426-437.

Citácie:

1. [1.2] PORHAJAŠOVÁ, J., RAKOVSKÁ, A., NOSKOVIČ, J., BABOŠOVÁ, M. & ČERYOVÁ T., 2014: Influence of agroecosystems on biodiversity of Carabidae in the nature reserve of Alúvium Žitavy in the southwestern part of the Slovak Republic. RESEARCH JOURNAL OF AGRICULTURAL SCIENCE, 46 (2), 283 – 289., SCOPUS
2. [3] PETERKOVÁ, V., 2014: Ekologické faktory ovplyvňujúce spoločenstvá chrobákov. Vedecká monografia, Vyd. Typi Universitatis Tyrnaviensis. 84 s. ISBN 978-80-8082-829-5.

AFC02 ŠUSTEK, Zbyšek. Carabid and Staphylinid communities as indicators of changes in floodplain forests in the area affected by the Gabčíkovo project. In Slovak-Hungarian Environmental Monitoring of the Danube : Results of the Environmental Monitoring based on the "Agreement between the Government of the

Slovak Republic and the Government of the Republic of Hungary concerning certain technical measures and discharges in the Danube and Mosoni branch of the Danube 1995-2005. Slovak section. - 2006, p. 175-181.

Citácie:

1. [3] PETERKOVÁ, V., 2014: *Ekologické faktory ovplyvňujúce spoločenstvá chrobákov. Vedecká monografia, Vyd. TYPI UNIVERSITATIS TYRNAVIENSIS. 84 s. ISBN 978-80-8082-829-5.*

AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 KRNO, Il'ja - ŠPORKA, Ferdinand - MATIS, Dušan - TIRJAKOVÁ, Eva - HALGOŠ, Jozef - KOŠEL, Vladimír - BULÁNKOVÁ, Eva - ILLÉŠOVÁ, Daniela. Development of zoobenthos in the Slovak Danube inundation area after the Gabčíkovo hydropower structures began operating. In MUCHA, Ivan. Gabčíkovo part of the hydroelectric power project-Environmental impact review, Ground Water Consulting, 1999, s. 175-200.

Citácie:

1. [1.2] ZORIĆ Katarina, JAKOVČEV-TODOROVIĆ Dunja, ĐIKANOVIĆ Vesna, VASILJEVIĆ Božica, TOMOVIĆ Jelena, ATANACKOVIĆ Ana, SIMIĆ Vladica, PAUNOVIĆ Momir (2011) *Distribution of the Ponto-Caspian polychaeta Hypania invalida (Grube, 1860) in inland waters of Serbia. AQUATIC INVASIONS (2011) Volume 6, Issue 1: 33–38, DOI: 10.3391/ai.2011.6.1.04, SCOPUS*

AFG Abstrakty príspevkov zo zahraničných konferencií

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

Citácie:

1. [1.1] BLANK, STEPHAN M. ; KOEHLER, THOMAS; PFANNENSTI, TORALF; NEUENFELDE, NADINE; ZIMMER, BIANKA; JANSEN, EWALD; TAEGER, ANDREAS; LISTON, ANDREW D (2014) *Zig-zagging across Central Europe: recent range extension, dispersal speed and larval hosts of *Aproceros leucopoda* (Hymenoptera, Argidae) in Germany. JOURNAL OF HYMENOPTERA RESEARCH Volume: 41 Pages: 57-74 DOI: 10.3897/JHR.41.8681, WOS*
2. [1.1] WELTZ, CARL-ERIK; VILHELMSSEN, LARS (2014) *The saws of sawflies: exploring the morphology of the ovipositor in Tenthredinoidea (Insecta: Hymenoptera), with emphasis on Nematinae. JOURNAL OF NATURAL HISTORY Volume: 48 Issue: 3-4 Pages: 133-183 WOS*

AFG02 KOŠUTHOVÁ, L. - KOŠČO, Ján - MIKLISOVÁ, Dana - LETKOVÁ, Valéria - KOŠUTH, P. On the expansion of *Nippottaenia mogurndae* (Cestoda: Nippottaeniidea), a parasite of invasive fish *Percottus glenii*, in Slovakia.

Citácie:

1. [1.2] SOKOLOV, S.G., RESHETNIKOV, A.N., PROTASOVA, E.N. (2014) *A checklist of parasites in non-native populations of rotan *Percottus glenii* Dybowski, 1877 (Odontobutidae) JOURNAL OF APPLIED ICHTHYOLOGY, 30 (3), pp. 574-596. DOI: 10.1111/jai.12281, SCOPUS*

***AFHB Abstrakty príspevkov z domácich konferencií**

- AFHB01 ŠUSTEK, Zbyšek. Restitution of carabid communities after catastrophic floods in floodplain forests. In IX. posterový deň s medzinárodnou účasťou. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra. Transport vody, chemikálií a energie v systéme pôda-rastlina atmosféra : posterový deň s medzinárodnou účasťou. 9. - Bratislava, SK : Ústav hydrologie SAV, 29. 11. 2001.

Citácie:

1. [1.2] *LIK M., ZIELIŃSKI J., 2014: Structure and population dynamics of Pterostichus spp. Beetles (Col. Carabidae) in three types of wetland. ARCH. BIOL. SCI., Belgrade, 66 (2), 765-773, SCOPUS*

AGI Správy o vyriešených vedeckovýskumných úlohách

- AGI01 ADAMKOVÁ, Juliana - HENSEL, K. - GREŠKOVÁ, Anna - KLOZÍK, Marcel - LEHOTSKÝ, Milan - OŤAHELOVÁ, Helena - ŠPORKA, Ferdinand - ŠTEFKOVÁ, Elena - VALACHOVIČ, Milan. Príprava databázy hydromorfologických a biologických ukazovateľov pre proces výberu a charakterizácie referenčných miest podľa Smernice 2000/60/EC. Bratislava : Slovenský hydrometeorologický ústav, 2003. 126 s.

Citácie:

1. [1.2] *VERBETSKAYA, K., KLYMENKO, N., VOZNYUK, N. The Ecological Evaluation River Basins in West Georgia. In NATO Science for Peace and Security Series C: Environmental Security, 2013, 128, p. 301-313. ISSN 1874-6519., SCOPUS*

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 : Lesnícká a dřevařská fakulta MZLU v Brně : Ústav lesnické botaniky, dendrologie a typologie, 2004, svazek 9. ISBN 80-7151-787-1.

Citácie:

1. [1.1] *BARANOVÁ, B., MANKO P., JÁSZAY, T., 2014: Differences in surface-dwelling beetles of grasslands invaded and non-invaded by goldenrods (Solidago canadensis, S. gigantea) with special reference to Carabidae. J Insect Conserv, 13 str., DOI 10.1007/s10841-014-9666-0, WOS*
2. [1.1] *PORHAJAŠOVÁ, J., NOSKOVIČ, J., BABOŠOVÁ, M., ČERYOVÁ, T. & CANDRÁKOVÁ E., 2014: Influence of ecological and integrated management of farming on biodiversity of basic epigeic group. ACTA HORTICULTURAE ET REGIOTECTURAE Volume 17, Issue 1, Pages 16–19, ISSN (Online) 1338-5259, DOI:10.2478/ahr-2014-0005, WOS*

BBB Kapitoly v odborných knižných publikáciách vydané v domácich vydavateľstvách

- BBB01 ŠUSTEK, Zbyšek. Použitie Shannon-Wienerovej funkcie k posudzovaniu narušenia ekosys-témov. In Lesnícky výskum a výchova vedeckých pracovníkov v ČSSR. - Zvolen : VÚLH Zvolen, 1980, s. 1-16.

Citácie:

1. [4] *PETERKOVÁ, V., 2014: Ekologické faktory ovplyvňujúce spoločenstvá chrobákov. Vedecká monografia, Vyd. TYPI UNIVERSITATIS TYRNAVIENSIS. 84 s. ISBN 978-80-8082-829-5*

- BBB02 ŠUSTEK, Zbyšek. Fluktuácie populácií druhov *Pterostichus melanarius* a *Pterostichus niger* (Col. Carabidae) a ich interpretácia. In Výsledky a skúsenosti z monitorovania bioty územia ovplyvneného VD Gabčíkovo. - Bratislava : ÚZE SAV, 1995, 1995, p. 314-318.

Citácie:

1. [1.2] *LIK M., ZIELIŃSKI J., 2014: Structure and population dynamics of Pterostichus spp. Beetles (Col. Carabidae) in three types of wetland. ARCH. BIOL. SCI., Belgrade, 66 (2), 765-773, DOI:10.2298/ABS1402765L 765, SCOPUS*

***BDEA Odborné práce v zahraničných nekarentovaných časopisoch impaktovaných**

- BDEA01 KRIŠTOFÍK, Ján. Distribution of *Mus spicilegus* in Slovakia. In Lynx. Roč. 34, (2003), s. 29 - 34.

Citácie:

1. [1.1] *ČANADY, ALEXANDER, MOŠANSKÝ, LADISLAV, ULIČNÁ, LUCIA (2014). Variability of skull and dental characteristics in Mus spicilegus from the northern border of its distributional range. BIOLOGIA vol. 69, no. 10, pages 1425-1430, WOS*

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

- FAI01 ŠPORKA, Ferdinand - BITUŠÍK, Peter - BULÁNKOVÁ, E. - CSÉFALVAY, R. - ČEJKA, Tomáš - DERKA, T. - ELEXOVÁ, E. - HALGOŠ, J. - HAMERLÍK, L. - ILLÉŠOVÁ, Daniela - JÄCH, M.A. - KODADA, J. - KOŠEL, V. - KRNO, I. - NOVIKMEC, M. - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana. Vodné bezstavovce (makrovertebráta) Slovenska, súpis druhov a autekologické charakteristiky. ; editor: Ferdinand Šporka. Bratislava : Slovenský hydrometeorologický ústav, 2003. 590 s.

Citácie:

1. [1.1] *RÁDKOVÁ, V., BOJKOVÁ, J., KŘOUPALOVÁ, V., SCHENKOVÁ, J., SYROVÁTKA, V. & HORSÁK, M. 2014. The role of dispersal mode and habitat specialisation in metacommunity structuring of aquatic macroinvertebrates in isolated spring fens. FRESHWATER BIOLOGY 59 (11): 2256-2267, WOS*
2. [3.1] *LIPTÁK Boris (2013) Non-indigenous invasive freshwater crustaceans (Crustacea: Malacostraca) in Slovakia. WATER RESEARCH AND MANAGEMENT, Vol. 3, No. 3 (2013) 21-31 ISSN:2217-5237*
3. [4.1] *ŽIAK Matej (2014) Spoločenstvá pošvatiek (Plecoptera) povodia rieky Turiec. Zborník Slovenského Národného Múzea v Martine, Kmetianum. XIII (2014): 206-215*

GAI Správy

- GAI01 VRŠANSKÝ, Peter - QUICKE, D.L.J. - RASNITSYN, Alexandr P. - BASIBUYUK, Hasan - ROSS, Andrew - FITTON, Mike - VIDLIČKA, Ľubomír. The oldest fossil insect sensilla. In Publikácia AMBA/B/21.01.3/ABS/D. - Bratislava, 2001, s. 1-8.

Citácie:

1. [1.1] *KIREJTSHUK, A. G., POSCHMANN, M., PROKOP, J., GARROUSTE, R. & NEL, A. (2014) Evolution of the elytral venation and structural adaptations in the oldest Palaeozoic beetles (Insecta: Coleoptera: Tshekardocoleidae). JOURNAL OF SYSTEMATIC PALAEONTOLOGY, 12(5): 575-600. WOS*

Nezaradené publikácie

- 01 MIHÁL, Ivan - MAŠÁN, Peter - ASTALOŠ, B. Kosce - Opiliones. In ASTALOŠ, B. et al. Pavúkovce Cerovej vrchoviny : (Arachnida: Araneae, Pseudoscorpiones, Opiliones, Acari) ; eds. Peter Mašán, Ivan Mihál. - Banská Bystrica ; Rimavská Sobota ; Bratislava ; Zvolen : Štátna ochrana prírody SR : Správa CHKO Cerová vrchovina : Ústav zoológie SAV : Ústav ekológie lesa SAV, 2009, s. 137-151. ISBN 978-80-228-2070-7.

Citácie:

1. [1.2] MILASOWSZKY, Norbert - HEPNER, Martin. First record of sauron rayi (Araneae, Linyphiidae) in Austria | Erstnachweis von sauron rayi (Araneae, Linyphiidae) in Österreich. In *Arachnologische Mitteilungen*. ISSN 10184171, 2014-01-01, 48, pp. 1-7., SCOPUS
2. [10] CHRISTOPHORYOVÁ, J. - ŠTÁHLAVSKÝ, F. - KRAJČOVIČOVÁ, K. Šťúriky (Arachnida, Pseudoscorpiones) pohoria Burda (NPR Kováčovské kopce). ISSN 1336-4529 online version, 1335-7522 print version, vol. 19, no. 2, p. 161-167., *Zoological Record*
3. [10] MARŠALEK, P. – STAŠIOV, S. – DANKANINOVÁ, L: - KUBOVČÍK, V. Príspevok k poznaniu fauny koscov (Opiliones) Štiavnických vrchov. In *Folia faunistica Slovaca*. ISSN 1336-4529 online version, 1335-7522 print version, 2014, vol. 19, no. 1, p. 23-25.

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Ferdinand Šporka, DrSc.

Názov semestr. predmetu: Hydrobiológia

Počet hodín za semester: 2

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

Semestrálne cvičenia:

RNDr. Ľubomír Vidlička, CSc.

Názov semestr. predmetu: Zoológia bezchordátov 1

Počet hodín za semester: 48

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

Terénne cvičenia:

RNDr. Ľubomír Vidlička, CSc.

Názov semestr. predmetu: Terénne práce zo zoológie bezstavovcov

Počet hodín za semester: 40

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

Individuálne prednášky:

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Genetika správania

Počet hodín za semester: 3

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Využitie hmyzu pri štúdiu neuroendokríných pochodov regulujúcich vývin a správanie

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Využitie hmyzu pri štúdiu neuroendokríných pochodov regulujúcich vývin a správanie

Počet hodín za semester: 2

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

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
Holandsko					Zuzana Hamšíková	18
Nemecko					Markéta Derdáková	13
					Michal Chvostáč	13
					Tatiana Vaculová	13
Počet vyslaní spolu					4	57

(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
Nemecko					Gabriele Margos	5
					Volker Fingerle	5
Ukrajina					Julia Didyk	86
Zimbabwe					Andrew Chitambo	70
					Stanley Nyenda	70
					Tendai Chigiya	70
Počet prijatí spolu					6	306

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	MKM 2015	Juraj Majtán	1
	SUW	Emanuel Procházka	4
	T&TTD-2015	Mária Kazimírová	3
	XVII. Konferencie ČSL a SLS	Fedor Čiampor	5
		Zuzana Čiamporová-Zaťovičová	5
		Darina Šípošová	5
Grécko	GERI 2015	Zuzana Hamšíková	7
		Mária Kazimírová	5
		Michal Stanko	8
Mjanmarsko (Barma)	INC 2015	Dušan Žitňan	10
Rakúsko	ICLB	Markéta Derdáková	3
		Michal Chvostáč	3
		Tatiana Vaculová	3
	SIL-Austria	Fedor Čiampor	3
		Zuzana Čiamporová-Zaťovičová	3
Španielsko	BioMicroWorld 2015	Marcela Bučeková	5
Švajčiarsko	SEFS 9	Fedor Čiampor	6
		Zuzana Čiamporová-Zaťovičová	6
		Darina Šípošová	6
Veľká Británia	IST 2015	Mária Kazimírová	7
Spolu			11
			20
			98

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

Skratky použité v tabuľke C:

BioMicroWorld 2015 - VI International Conference on Environmental, Industrial and Applied Microbiology

GERI 2015 - Genes, Ecosystems and Risk of Infection

ICLB - 14th International Conference on Lyme Borreliosis and other Tick-Borne Diseases

INC 2015 - Invertebrate Neuropeptide Conference 2015

IST 2015 - 18th World Congress of the International Society on Toxinology

MKM 2015 - Medzinárodní konference o medu

SEFS 9 - 9th Symposium for European Freshwater Science

SIL-Austria - Alpine and peri-Alpine Limnology Meetin

SUW - Setkání uživatelů Waters LC, SFC a MS

T&TTD-2015 - International workshop on "Ticks & Tick-Transmitted Diseases 2015"

XVII. Konference ČSL a SLS - XVII. konferencia České limnologické společnosti a Slovenskej limnologickej spoločnosti