

Ústav zoológie SAV



**Správa o činnosti organizácie SAV
za rok 2013**

Bratislava
január 2014

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav zoológie SAV

Riaditeľ: RNDr. Milan Kozánek, CSc.

Zástupca riaditeľa: RNDr. Stanislav Kalúz, CSc.

Vedecký tajomník: Ing. Juraj Majtán, PhD.

Predseda vedeckej rady: RNDr. Dušan Žitňan, DrSc.

Členovia snemu SAV: MVDr. Markéta Derdáková, PhD., RNDr. Peter Takáč, CSc.

Adresa: Dúbravská cesta 9, 845 06 Bratislava

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Fax: 02/ 5930 2646

E-mail: eva.vrablova@savba.sk

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	58	29	29	6	8	55	57,14	28,25
Vedeckí pracovníci	31	21	10	2	2	30	29,65	26,25
Odborní pracovníci VŠ	12	2	10	1	5	11	12,66	2
Odborní pracovníci ÚS	10	3	7	1	1	9	10,33	0
Ostatní pracovníci	5	3	2	2	0	5	4,5	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2013 (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 31.12.2013 (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 31.12.2013)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	2	19	0	2	2	15	4
Ženy	0	12	0	0	0	7	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	2	3	1	2	3	4	4	0
Ženy	1	1	4	0	0	2	2	0	0

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2013

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	47,9	50,7	50,5
Ženy	42,0	43,6	43,3
Spolu	45,0	48,4	48,0

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

V rámci internej štruktúry je Ústav zoológie SAV je členený na sekcie. DO roku 2013 mal ústav 3 sekcie: Ekológia živočíchov, Medicínska zoológia a Molekulárna a aplikovaná zoológia. Sekcia molekulárnej a aplikovanej zoológie bola početne najväčšia, pozostávala z dvoch tematicky jasne vyhranených pracovných tímov - tímu Dr. Žitňana, ktorý sa venuje výskumu molekulárnych mechanizmov endokrinnnej regulácie vývinových procesov u hmyzu a tímu Dr. Kozánka, ktorý je zameraný na cielený výskum v oblasti bioterapií a biokontroly kľúčových hmyzích škodcov. Vzhľadom na tieto skutočnosti ako aj v snahe zefektívniť riadenie a produktivitu oba tímy sa dohodli na rozdelení pôvodnej sekcie Molekulárnej a aplikovanej zoológie na dve sekcie - Sekciu Molekulárnej fyziológie živočíchov a Sekciu biokontroly a bioterapií. Táto zmena v internej štruktúre pracoviska vstúpila do platnosti k 1. októbru 2013.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Zoznam domácich projektov riešených v roku 2013

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2013 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Vedecké projekty, ktoré boli r. 2013 financované VEGA	17	5	94361	94361	9198
2. Projekty, ktoré boli r. 2013 financované APVV	9	1	190804	148639	-
3. Projekty OP ŠF	2	2	456953	136859	257495
4. Projekty centier excelentnosti SAV	0	1	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	0	26620	26620	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2. Medzinárodné projekty**2.2.1. Medzinárodné projekty riešené v roku 2013**

Tabuľka 2b Zoznam medzinárodných projektov riešených v roku 2013

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2013 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Projekty 7. Rámcového programu EÚ	0	1	-	-	96059
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné	3	2	91900	91900	10000
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,...)	1	4	-	2000	19489
6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov	1	1	-	-	-

*A - organizácia je nositeľom projektu**B - organizácia sa zmluvne podieľa na riešení projektu*

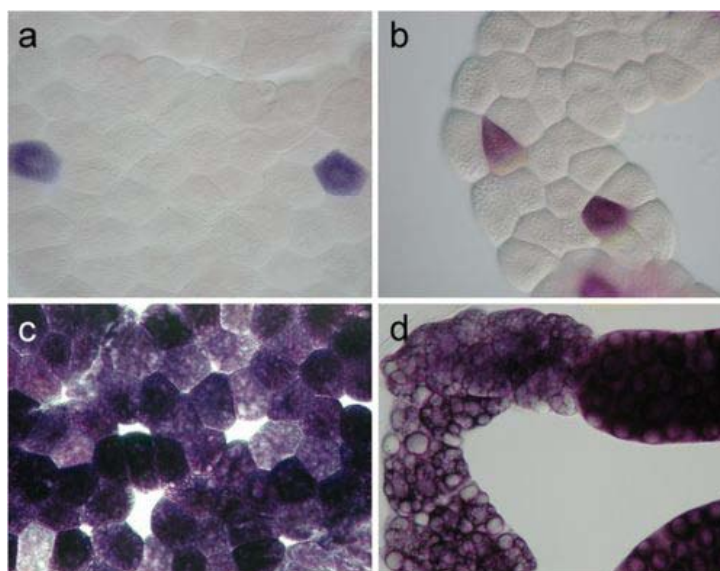
2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Larválna terapia sa stále častejšie využíva ako rýchly a efektívny spôsob liečenia nehojajúcich sa rán. Identifikácia a charakterizácia antibakteriálnych látok ako aj mechanizmov, ktoré sa podieľajú na pozitívnych účinkoch larválnej terapie, predstavujú dôležitú oblasť výskumu. Cieľom našej práce bolo preskúmať expresiu lucifenzínu, nedávno identifikovaného antibakteriálneho peptidu významného pri larválnej terapii, v rôznych tkanivách počas vývoja *L. sericata* za normálnych ako aj infekčných podmienok. Pomocou *in situ* hybridizácie sme zistili, že lucifenzín sa tvorí v slinných žľazách počas celého larválneho vývoja. Jeho produkcia začína pár hodín po vyliahnutí, pokračuje počas všetkých troch larválnych instarov a ustane na konci tretieho instaru, v čase keď larvy prestanú prijímať potravu a začnú hľadať miesto vhodné na zakuklenie. Skúmali sme tiež expresiu lucifenzínu v larvách, ktoré sme perorálne infikovali rôznymi patogénmi, ktoré sa bežne vyskytujú v chronických ranách. Nezaznamenali sme žiadnu zmenu v produkcii lucifenzínu v slinných žľazách. Avšak, vplyvom infekčného prostredia (pôsobením *Staphylococcus aureus* a *Pseudomonas aeruginosa*) došlo u lariev k silnej stimulácii tvorby lucifenzínu v tukovom telese (Obr. 1). Lucifenzín je tak významný nie len ako antibakteriálny faktor v larválnej terapii ale aj ako súčasť imunitného systému lariev *L. sericata*.

VALACHOVÁ I, BOHOVÁ J, PÁLOŠOVÁ Z, TAKÁČ P, KOZÁNEK M, MAJTÁN J. Expression of lucifenzin in *Lucilia sericata* medicinal maggots in infected environments. *Cell and Tissue Research*, 2013, vol. 353, no. 1, p. 165-171.

VALACHOVÁ I, BOHOVÁ J, KOZÁNEK M, TAKÁČ P, MAJTÁN J. *Lucilia sericata* medicinal maggots: a new source of antimicrobial compounds. *Microbial pathogens and strategies for combating them: science, technology and education*. Vol. 3. - Formatex Research Center, 2013, p. 1745-1753.



Obr. 1. Expresia lucifenzínu v tukovom teliesku (a,c) a tukovej spojke (b,d) larvách *Lucilia sericata* v normálnom (a, b) a infekčnom prostredí (c, d)

2.3.2. Aplikačný typ

V rámci spolupráce na projekte Vývoj diagnostických postupov pre detekciu patogénov

prenášaných kliešťami a postupov na prípravu vakcín proti kliešťom, (kod ITMS: 26240220044) bol na Ústave molekulárnej biológie SAV v spolupráci s Ústavom zoológie SAV vyvinutý DNA mikročip, diagnostická metóda, kde prostredníctvom hybridizácie špecifických sond je možné v jednom kroku detegovať a rozlíšiť jednotlivé rody kliešťami prenášaných baktérií: *Borrelia*, *Coxiella*, *Rickettsia*, *Anaplasma*, *Francisella* a *Neoehrlichia*. Pre odlíšenie jednotlivých druhov borélií boli navyše navrhnuté druhovo špecifické sondy. Citlivosť a špecifita detekčného systému bola verifikovaná pomocou real-time PCR. Pozitívne testovacie vzorky boli pripravené riešiteľmi z Ústavu zoológie SAV, kde boli realizované aj real-time PCR. Takto vyvinutý detekčný systém na analýzu infekčnosti kliešťa umožňuje skoré odhalenie koinfekcie kliešťa rôznymi baktériami, skorú a rýchlu diagnostiku a následne stanovenie správneho terapeutického postupu.

MELNIČÁKOVÁ J, DERDÁKOVÁ M, BARÁK I. A system to simultaneously detect tick-borne pathogens based on the variability of the 16S ribosomal genes?. *Parasites & vectors*, 2013, vol. 6:269, p:1-12.

2.3.3. Medzinárodné vedecké projekty

V rámci dlhodobej medzinárodnej spolupráce s pracoviskami v USA sme identifikovali nový neuropeptid a jeho receptor u troch druhov hmyzu. Tento neuropeptid je veľmi podobný tachykinínom stavovcov a jeho receptor patrí do skupiny GPCR. Na opísanie exprese a funkcie tohto neuropeptidu a jeho receptora sme použili kombináciu viacerých techník; napr. imunohistochemiu, in situ hybridizácie, RNA interferenciu a mnohé iné molekulárne a genetické postupy. Pomocou RNAi sme zistili, že uvedený neuropeptid je má dôležitú funkciu pri regulácii sexuálneho správania a plodnosti, preto sme ho pomenovali natalisin.

JIANG H, IKHAGVA A, DAUBNEROVA I, CHAE H, SIMO L, JUNG S-H, YOON Y-K, SEONG J-Y, ZITNAN D, PARK Y, KIM Y-J (2013). Natalisin, a new tachykinin-like signaling system, regulates sexual activity and fecundity in insects. *Proc. Nat. Acad. Sci. USA* 13 Sep 10;110(37):E3526-34 doi/10.1073/pnas.1310676110

V pomerne rozsiahlej kapitole v monografii sme opísali expresiu a funkciu neuropeptidov kliešťov, pričom sme sa zamerali hlavne na úlohu peptidergných neurónov, ktoré inervujú slinné žľazy a črevo. Tieto orgány sú dôležitými rezervoármi patogénov nebezpečných pre človeka a mnohé zvieratá, preto štúdium regulácie ich aktivity má význam aj v epidemiológii a medicíne. Zistili sme, že niekoľko veľkých peptidergných neurónov v mozgu kliešťov inervuje slinné žľazy a črevo. Tieto neuróny sú aktivované zmyslovými orgánmi a vylučujú viaceré neuropeptidy z bohatej inervácie slinných žliaz a čreva, čím regulujú aktivitu týchto orgánov počas cicania kliešťov na hostiteľovi. V tejto kapitole sme opísali aj všetky známe zmyslové orgány kliešťov.

SONENSHINE D, SIMO L, PARK Y, ZITNAN D. (2013). *The nervous and sensory systems: structure, function, proteomics and genomics. Biology of ticks* (D.E. Sonenshine, R.M. Roe, eds.)

Projekt: **Molecular Physiology of the Epitracheal Endocrine System** (NIH, USA) 2009-2013

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

Tabuľka 2c Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	A Počet v r. 2013/ doplňky z r. 2012	B Počet v r. 2013/ doplňky z r. 2012	C Počet v r. 2013/ doplňky z r. 2012
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	1 / 0	0 / 0	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	0 / 0	0 / 0	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	0 / 0	0 / 0	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	0 / 0	0 / 0	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	0 / 0	0 / 0	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	2 / 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 v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	54 / 0	0 / 0	3 / 0
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	30 / 1	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	15 / 0	0 / 0	0 / 0
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	0 / 10	0 / 0	0 / 0

12. Vydané periodiká evidované v Current Contents	1	0	0
13. Ostatné vydané periodiká	0	0	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	1/0	0/0	0/0
15. Vedecké práce uverejnené na internete (GHG)	0 / 0	0 / 0	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	0 / 0	0 / 0	0 / 0
17. Heslá v odborných terminologických slovníkoch a encyklopédiách vydaných * (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...“)

** - uvádzajú sa len heslá, pri ktorých je uvedený autor a ich rozsah je min. 1 autorský hárok*

Tabuľka 2d Ohlasy

OHLASY	A Počet v r. 2012/ doplňky z r. 2011	B Počet v r. 2012/ doplňky z r. 2011
Citácie vo WOS (1.1, 2.1)	693 / 27	0 / 0
Citácie v SCOPUS (1.2, 2.2)	78 / 4	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	34 / 11	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	156 / 51	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 2e Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	73
Prednášky a vývesky na domácich vedeckých podujatiach	22

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

Autor: Juraj Majtán, Alexder Mayer, Viliam Slezák, Peter Takáč, Juraj Olejník

Názov prednášky: Treatment Of The Lower Leg Ulcers With Honeydew Honey.

Názov vedeckého podujatia: 3rd International Conference on the Medicinal Use of Honey

Miesto: University Hasanuddin, Makassar, Indonesia, 2013, p. 15 /Syp. 5 – 02/.

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 2013

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2013 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 2f Experti hodnotiaci národné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Čiampor Fedor	APVV - Všeobecná výzva	1
	VEGA	1
Žitňan Dušan	APVV	5

2.9. Iné informácie k vedeckej činnosti.

Prioritou ÚZ SAV naďalej zostáva získavanie vyššieho počtu zahraničných vedecko-výskumných projektov (Wellcome Trust, ERC, 7RP a pod.) a produkovanie získaných vedeckých výsledkoch v impaktovaných karentových periodikách. V roku 2013 ÚZ SAV získal niekoľko významných projektov z IAEA agentúry a 1 medzinárodný grant z Yamada Bee Farm (Japonsko).

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 2013

Forma	Počet k 31.12.2013				Počet ukončených doktorantúr v r. 2013					
	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	4	9	1	1	1	1	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	5	10	1	1	1	1	0	1	0	0
Súhrn	15		2		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						

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2013 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiace, rok nástupu na DŠ	Mesiace, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Zuzana Pálošová	interné štúdium hrazené z prostriedkov	9 / 2007	8 / 2013	4.2.5 zoológia	RNDr. Peter Takáč CSc., Ústav zoológie SAV	Prírodovedecká fakulta UK

	dkov SAV					
Mgr. Marek Semelbauer	interné štúdium hradené z prostrie dkov SAV	9 / 2008	8 / 2013	4.2.5 zoológia	RNDr. Milan Kozánek CSc., 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	4.2.3	Prírodovedecká fakulta UK
	zoológia	4.2.5	Prírodovedecká fakulta UK

Tabuľka 3e Účasť na pedagogickom procese

Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií 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. Dušan Žitňan, DrSc. (Prírodovedecká fakulta UK)	
RNDr. Milan Kozánek, CSc. (zoológia)		
RNDr. Milan Kozánek, CSc. (všeobecná ekológia a ekológia jedinca a populácií)		
RNDr. Ján Krištofík, CSc. (zoológia)		
doc. RNDr. Michal Stanko, DrSc. (zoológia)		
RNDr. Ferdinand Šporka, CSc. (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 2013

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	6	0	2	0
Celkový počet hodín v r. 2013	116	0	52	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	21
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	44
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	13
4.	Počet školených doktorandov (aj pre iné inštitúcie)	19
5.	Počet oponovaných dizertačných a habilitačných prác	7
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	5
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	0
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	4
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

3.6. Iné dôležité informácie k pedagogickej činnosti

Ústav zoológie SAV je akreditovaných školiacim pracoviskom pre odbory Zoológia a Molekulárna biológia. V roku 2012 sa podarilo zvýšiť kvótu pre financovanie PhD. študentov na 14, tento počet bol v roku 2013 aj naplnený. PhD. študenti sú významnou integrálnou súčasťou pracoviska a aktívne sa podieľajú na riešení projektov. V uplynulom roku úspešne obhájili svoju prácu 2 doktorandi. Pracovisko z interných zdrojov zriadilo 2-ročnú pozíciu pre doktoranda, ktorý dosiahol počas PhD. štúdia vynikajúce výsledky, ktorá slúži na dotiahnutie publikačných výstupov z výsledkov práce a vytvorenie podmienok na získanie štipendia zo Schwarzovho fondu. Do septembra 2013 bola na tejto pozícii Mgr. Daubnerová, ktorá získala Schwarzovo štipendium, od 1.10.2013 nastúpil na túto pozíciu Mgr. Marek Semelbauer. V ostatných rokoch sa významne zlepšila spolupráca s partnerským pracoviskom - Katedrou zoológie PriFUK a so študijným odborom PriFUK. Určité problémy priniesla elektronizácia administratívy doktorandského štúdia AIS, ale vďaka efektívnej spolupráci so zmenenými partnerskými pracoviskami sa tento problém darí riešiť.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2013 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 2014 (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 society of clinical microbiology and infectious diseases (funkcia: člen)
European Wound Management Association (EWMA) (funkcia: člen)

Mgr. Ladislav Pekárik, Ph.D

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

RNDr. Ferdinand Šporka, CSc.

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

RNDr. Elena Štefková, PhD.

Česká algologická spoločnosť (funkcia: člen)
The International Association for Danube Research (IAD) (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
Žitňan Dušan	European Research Council	2

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

V roku 2013 boli zo zdrojov MVTs finančne podporených päť projektov, z ktorých dva boli projekty IAEA, jeden 7RP, jeden NIH a jeden INTERREG.

IAEA projekty

Overovanie a zdokonaľovanie nových techník pre veľkochovy bodaviek *Glossina palpalis*

gambiensis a pre diaľkovú dopravu lietavého materiálu na podporu tsetse SIT v oblasti západnej Afriky.

Základným cieľom projektu bolo vybudovanie záložnej kolónie bodaviek tsetse druh *Glossina palpalis gambiensis* na zabezpečenie veľkých množstiev sterilných samcov, ktoré sa budú postupne vypúšťať v oblastiach výskytu spavej choroby u ľudí a nagany u dobytká. Konkrétne sa jedná o vybrané lokality v západnej Afrike v Senegale. Ďalším cieľom projektu je výskum bezpečného transportu kukiel a sterilných samcov, vytvorenie bezpečných podmienok na dlhodobý transport do západnej Afriky, do Burkina Faso a do Senegalu. Vytvorenie štandardizovaného monitorovania transportných podmienok počas diaľkového transportu bodaviek tsetse. V rámci tohto projektu sa spolupracuje aj s entomológmi z FAO/IAEA pri výmene informácií na zlepšenie chovných a transportných podmienok kukiel a dospelých samcov bodaviek tsetse.

V roku 2013 sa pokračovalo v intenzívnom masovom chove bodaviek tsetse druhu *Glossina palpalis gambiensis*. Podarilo sa nám udržať početnosť kolónie na 80 000 samičiek. Chovy sa prevádzali na novom zariadení masového chovu tsetse, typového radu TPU4. Zároveň zariadenie slúžilo ako testovacie zariadenie na potencionálne využitie TPU4 aj v zariadení masového chovu bodaviek tsetse v Afrike. Ďalej sme testovali introgresívnu hybridizovanú kolóniu dvoch línií *Glossina palpalis gambiensis* (SEN) zo Senegalu a (BKF) z CIRDES v Burkina Faso. Nová línia SEN-BKF vykazuje väčšiu odolnosť a životaschopnosť pri vypúšťaní do prírody v Senegale.

V rámci ďalšieho cieľa projektu sme sa v spolupráci s entomologickým laboratóriom IAEA v Seibersdorfe, v Rakúsku zamerali na výskum štandardizácie transportných podmienok pri transporte schladených a ožiarených samčích kukiel bodaviek tsetse. Transportovali sme ožiarené samčie kukly do zariadenia Ecologie et contrôle des vecteurs, CIRAD - Département Systèmes Biologiques - UMR15 CIRAD/INRA Contrôle des maladies animales exotiques et émergentes, Institut Sénégalais de Recherches Agricoles ISRA, Dakar-Han. Celý tento transportný proces bol sledovaný a monitorovaný. Výsledky transportu sme si navzájom konfrontovali. Podmienky štandardizácie transportných podmienok sa ešte doladujú.

Zvýšenie vektorovej odolnosti na trypanozómovú infekciu

V roku 2013 sme v rámci technického kontraktu dodávali živé kukly muchy tse - tse v počte 10 000 kusov, podľa potreby účastníkov CRP "Enhancing Vector Refractoriness to Trypanosome Infection" a. 200 kukiel z *G. m. morsitans*, *G. pallidipes*, *G. palpalis gambiensis* a *G. f. fuscipes* kolónie, mesačne S. Aksoy, Yale, USA. b. Štyri zásielky po 200 kukiel *G. m. morsitans* dodané A. Malacrida, Pavia, Taliansko. c. Kukly (1000ks z každého druhu) *G. pallidipes* a *G. fuscipes* dodané N. Maniana, ICIPE, Keňa. Zároveň sme spolupracovali na experimentoch s laboratóriom Prof. Serap Aksoy, Yale, USA, týkajúcich sa prenosu endosymbiotických baktérií do potomstva počas vnútromaternicového larválneho vývoja. Štúdia bola zameraná na vzájomnú molekulárnu výmenu informácií baktérií a potomstva, na bakteriálne zmeny transkriptomu v dospelých samičkách a v larve v priebehu vývoja. Expresia bakteriálnych génov počas vývoja bude závislá od expresie hostiteľských molekúl, ktoré môžu modulovať prenos trypanozómov v novovznikajúcom potomstve, a to najmä tých s antitrypanozómovou aktivitou.

7RP projekt

EDENext - Biológia a kontrola vektormi prenášaných infekcií v Európe

Biológia a kontrola vektormi prenášaných infekcií v Európe (EDENext) je integrovaný projekt 7.RP EÚ (Health-F3-2010-261504). Cieľom projektu je sledovanie biológie, ekológie a epidemiológie vybraných vektormi prenášaných ochorení v Európe a návrh inovatívnych metód boja proti nim. Ústav zoológie SAV sa v rámci konzorcia podieľa na výskume chorôb prenášaných kliešťami a drobnými cicavcami (hlodavce, hmyzožravce). Monitoruje populácie kliešťov, ich sezónnu aktivitu, výskyt, prevalenciu a genetickú diverzitu kliešťami prenášaných mikroorganizmov (anaplazmy, rickettsie, borélie, neoehrlichie, babézie), vektorovú kompetenciu a kapacitu kliešťov a interakcie

medzi prenášačmi, rezervoárovými hostiteľmi a patogénnymi mikroorganizmami. Sleduje tiež populácie hlodavcov a ich úlohu v cirkulácii kliešťami a hlodavcami prenášaných nákaz. V roku 2013 (tretí rok riešenia) sa pokračovalo v zberoch biologického materiálu (kliešte, hlodavce, vzorky z poľovnej zveri, iných hostiteľov kliešťov, spoločenských zvierat) vo vybraných biotopoch Slovenska, ktoré sa nachádzajú v oblastiach s rôznym stupňom zásahu človeka (urbánna oblasť, lesný ekosystém, poľnohospodárska krajina). V kliešťoch a hostiteľoch bola diagnostikovaná prítomnosť kliešťami prenášaných mikroorganizmov použitím molekulárnych metód. Rozsiahly materiál umožní porovnanie prevalencie a diverzity patogénnych mikroorganizmov v kliešťoch a v ich hostiteľoch v priestore a čase a vyhodnotenie rizík nákaz ľudí a zvierat kliešťami a hlodavcami prenášanými patogénmi. Doterajšie výsledky poukazujú na rozdiely v stupni zamorenia kliešťov a rezervoárových hostiteľov patogénnymi mikroorganizmami a na rozdiely v genetickej diverzite mikroorganizmov v rôznych biotopoch Slovenska, ako aj na existenciu urbánnych a suburbánnych ohnisk nákaz. Potvrdila sa prítomnosť pre Slovensko nových mikroorganizmov. Výsledky projektu boli prezentované na medzinárodných a domácich konferenciách (XII. International Jena Symposium on Tick-borne Diseases, 12th International Symposium on Ectoparasites of Pets, International conference on Lyme borreliosis and other tick-borne diseases, Zoonózy – spoločná ochrana zdravia ľudí a zvierat, III. Labudove dni) a boli zverejnené v zborníkoch z konferencií vo forme abstraktov a krátkych príspevkov a v publikácii:

Radosa L., Schlegel M., Gebauer P., Ansorge H., Heroldová M., Jánová E., Stanko M., Mošanský L., Fričová J., Pejčoch M., Suchomel J., Purchart L., Groschup M., Krüger D.H., Ulrich R.G., Klempa B.. Detection of shrew-borne hantavirus in Eurasian pygmy shrew (*Sorex minutus*) in Central Europe. Infection, Genetics and Evolution, 2013, vol. 19, pp. 403-410.

NIH projekt

Molekulárna fyziológia epitracheálneho endokrinného systému

NIH projekt. Finančné prostriedky MVTS boli použité na podporu projektu NIH GM 67310 „Molekulárna fyziológia epitracheálneho endokrinného systému“, ktorý je zameraný na štúdium identifikácie neuropeptidov a ich receptorov podieľajúcich sa na regulácii správania hmyzu. V spolupráci s Univ. of California, Riverside sme použili „Illumina sequencing“ na identifikáciu génov priadky morušovej *Bombyx mori*, ktoré kódujú neznáme neuropeptidy a receptory vo viacerých orgánoch (centrálny nervový systém, endokrinné Inka bunky, corpora allata). Priebeh expresie vybraných génov pre neuropeptidy a receptory sme študovali pomocou in situ hybridizácie a kvantitatívnej RT-PCR. Vektory obsahujúce transpozomálny element (piggyBac) sme využili na cieľnú expresiu receptorov, transkripčných faktorov a molekulárnych markerov v transgénnych líniiach *B. mori*. Tieto metódy umožňujú študovať funkcie a mechanizmy účinku uvedených bioaktívnych látok počas vývinu.

V tomto projekte počas roku 2013 sme sa zamerali na bioinformatickú analýzu transkriptómu *Bombyx mori* (Illumina sequencing). Výsledky tejto analýzy sme využili na sledovanie expresie a funkcie neuropeptidov a receptorov vo viacerých nervových a endokrinných orgánoch. Bioinformatickú analýzu sme uskutočnili v rámci spolupráce s Prof. M.E. Adamsom, Univ. of California, Riverside a s Bronislavou Brejovou, PhD., Katedra Informatiky, FMFI UK. V rámci tohto projektu sme identifikovali nový neuropeptid a jeho receptor, ktorý má dôležitú funkciu ri reprodukciu hmyzu.

Jiang H, Ikhagva A, Daubnerová I, Chae H, ?imo L, Jung S-H, Yoon Y-K, Seong J-Y, ?it?an D, Park Y, and Kim Y-J (2013). Natalisin, a new tachykinin-like signaling system, regulates sexual activity and fecundity in insects. Proc. Nat. Acad. Sci. USA doi/10.1073/pnas.1310676110

INTERREG

Revitalizácia rieky Moravy: Plán opatrení pripravený v súlade so smernicami EÚ o ochrane

vôd a prírody

Aktivity UZ SAV v záverečnom treťom období riešenia projektu sústredili na ukončenie spracovania odobratých vodných organizmov: bezstavovcov, rozsievok a makrofytov. Bola vypracovaná záverečná správa jednak za pracovný balík WP 4 Biotický monitoring, a aj podklady a závery pre WP 2 štúdia uskutočniteľnosti a WP 5 syntéza. Na základe vypracovaných variantov riešenia sme sa podieľali na výbere najvhodnejšej varianty revitalizačných opatrení dotknutého úseku hlavného toku rieky Morava. Výsledná záverečná správa, ktorá sa pripravuje bude návrhom spolu s projektovou dokumentáciou na revitalizáciu hlavného toku Moravy v rkm 54,3-69 aj s príľahlými meandrami tak aby ďalšou fázou bol vykonávací projekt. V roku 2014 už po ukončení projektu budú navrhnuté revitalizačné opatrenia predstavené verejnosti najmä obyvateľom obcí ležiacich v katastrálnom území, kde sa budú uskutočňovať.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe E.

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

5. Vedná politika

Zmeny súvisiace zo zameraním ústavu

Hlavné vedecko-výskumné zameranie Ústavu zoológie SAV je zakotvené v organizačnom poriadku pracoviska a je postavené na troch pilieroch: 1) ekologicko terénnom, 2) experimentálne laboratórnom a 3) cielene aplikovanom výskume. Základné zameranie pracoviska je stabilné a nepredpokladáme podstatné zmeny ani do budúcnosti. Na druhej strane je potrebné, aby výskumné tímy reagovali na požiadavky moderného vedeckého výskumu (excelentný reálne využiteľný výskum) a zvýšili tak svoj potenciál pri získavaní vedeckých projektov. V roku 2014 sa začína nové 7-ročné finančné obdobie v európskych štruktúrach vrátane financovania vedy (Horizon 2020, Štrukturálne fondy). Na výskumné zameranie ústavu bude mať bezosporu vplyv transformácia na VVI je preto možné, že v nasledujúcich rokoch po prvých skúsenostiach existencie v novom organizačno-ekonomickom prostredí prebehne diskusia orientovaná na vyhodnotenie aktuálnosti súčasného vedeckého zamerania.

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: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu APVV-0213-10

Začiatok spolupráce: 2011

Zameranie: výskum

Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu VEGA 1/0705/11

Začiatok spolupráce: 2011

Zameranie: výskum

Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Fakulta ekológie a environmentalistiky TUZVO

Druh spolupráce (spoločné pracovisko alebo iné): riešenie projektu APVV-0213-10

Začiatok spolupráce: 2011

Zameranie: výskum

Zhodnotenie:

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

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(i): Prírodovedecká Fakulta, Univerzita Komenského v Bratislave

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2013

Ukončenie spolupráce (ak ide o spoluprácu v krátkom období): 2013

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 rada 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: Definovanie priaznivého stavu kritériových druhov vtákov CHVÚ Poiplie

Adresát expertízy: ŠOP

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: Vyhodenie dokumentov s definovaním priaznivého stavu pre osem kritériových druhov vtákov CHVÚ Poiplie

Názov expertízy: Odhad početnosti a trendov kritériových druhov vtákov CHVÚ Poiplie

Adresát expertízy: ŠOP

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: Stanovenie odhadov početnosti a populačných trendov všetkých kritériových druhov vtákov CHVÚ Poiplie pre roky 2010-2013.

Názov expertízy: Posudzovanie Programov záchrany dvoch vtáčích druhov

Adresát expertízy: ŠOP a SOS / BirdLife Slovensko

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: Posudzovanie návrhov národných Programov záchrany dvoch ohrozených druhov vtákov (bučiak veľký a chochlačka bieloá).

Názov expertízy: Pripomienkovanie k zámeru na zmenu a doplnenie vyhlášky č. 440/2008 Z.z.

Adresát expertízy: MŽP SR

Spracoval: Mgr. Radovan Václav, PhD.

Stručný opis: Pripomienkovanie v súvislosti s epidemiológiou vtácej chrípky k zámeru na zmenu a doplnenie vyhlášky.

8.3. Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Tabuľka 8b Členstvo v radách štátnych programov a podprogramov ŠPVV a ŠO

Meno pracovníka	Názov orgánu	Funkcia
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8.4. Prehľad aktuálnych spoločenských problémov, ktoré riešilo pracovisko v spolupráci s Kanceláriou prezidenta SR, s vládnyimi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

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
RNDr. Fedor Čiampor, PhD		TL	Rozhovor o bobroch	Púchovské noviny	5.3.2013
RNDr. Fedor Čiampor, PhD		TL	Rozhovor o medúzkach na Váhu	Púchovské noviny	17.7.2013
RNDr. Fedor Čiampor, PhD		RO	Rozhovor o sršňoch mandarínskych	Slovenský rozhlas	10.10.2013
MVDr. Markéta Derdáková, PhD.	Rusňáková Targeľová, Špitálska, Seleyemová	TL	Kliešte v meste alebo živí proti živým	školy, lekári	2013
Ing. Juraj Majtán, PhD.		TV	Apiterapia	TV8	9.11.2013
Ing. Juraj Majtán, PhD.		TL	Apiterapia-využitie včelieho medu v medicíne	Magická Žena	1.12.2013
Ing. Juraj Majtán, PhD.		TL	Bardejovčan dodával med malajskému sultánovi	Bardejovský Korzár	6.11.2013
Ing. Juraj Majtán, PhD.		PB	Slovensko, včelie medy a medicína	Bratislavský Zväz Včelárov, Bratislava	5.11.2013
Mgr. Veronika Rusňáková Tarageľová, PhD.	Mgr. Eva Špitálska, PhD., Mgr. Diana Selyemová, PhD., MVDr. Markéta Derdáková, PhD.	TL	Spoluautor informačnej brožúry Kliešte v meste alebo "živí proti živým"	školy, lekári	2013
Mgr. Diana Selyemová, PhD.		IN	Spoluautor informačnej záložky na internete: Výskyt kliešťami prenášaných patogénov v Bratislavskom kraji (riziká nakazenia a možná prevencia)	internet	2013
Mgr. Diana Selyemová, PhD.	Tarageľová V., Derdáková M., Špitálska E.	TL	Spoluautor informačnej brožúry Kliešte v meste alebo "živí proti živým"	školy, lekári	2013
Ing. Zbyšek Šustek, CSc.		TV	rozhovor o kondenzácii vodných pá na tele púštnych potemníkov ()	TV JOJ	12.9.2013
RNDr. Peter Takáč, CSc.	Dr. Milan Kozánek	TV	Hirudoterapia	TV8	14.9.2013

RNDr. Peter Takáč, CSc.	Dr. Milan Kozánek	TV	Ichtyoterapia	TV8	12.10.2013
RNDr. Peter Takáč, CSc.	Dr. Milan Kozánek	TV	Larválna terapia	TV8	7.12.2013
Ing. Tomáš Čejka, PhD.		TL	Popularizačné články	Magazín .týždeň	30
Ing. Tomáš Čejka, PhD.	-	TL	Popularizačné články	Magazín .týždeň	30
Ing. Tomáš Čejka, PhD.	-	TL	Popularizačné články	Magazín .týždeň	30
Mgr. Radovan Václav, PhD.	preklad Barbara Chovancová	TL	Świstaki znad Zbójnickich Stawów mają swojego kronikarza (článok)	poľský časopis TATRY TPN jesień 2013, p. 64-65	0

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	1	tlač	11	TV	5
rozhlas	1	internet	3	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

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

Názov výstavy: Slovmedica 2013

Miesto konania: Bratislava

Dátum: 28.9.2013

Zhodnotenie účasti: Vyznamenanie – Cena Zlatá Incheba, udelil – INCHEBA EXPO Bratislava, za – “Za nové bioterapeutické metódy”

Názov výstavy: 40. medzinárodná poľnohospodárska a potravinárska výstava Agrokomplex 2013

Miesto konania: Nitra

Dátum: 22.8.2013

Zhodnotenie účasti: Vyznamenanie – Zlatý kosák, udelil – Ministerstvo pôdohospodárstva a rozvoja vidieka SR, za – “Využitie bioterapeutických metód v medicínskej praxi”

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	2	4	0

9.5. Členstvo v redakčných radách časopisov

Ing. Tomáš Čejka, PhD.

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)

Mgr. Alena Kohoutová Šedivá, PhD.

Biologia (funkcia: člen)

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)

Dataset Papers in Biology (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)
SOP Transactions on Psychology (funkcia: člen)

Ing. Ladislav Roller, PhD.

Entomofauna Carpathica (funkcia: člen)
Hmyz (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)
Folia Faunistica Slovaca (On line) (funkcia: člen)
Hmyz (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)

RNDr. Jana Fričová, PhD.

Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

Mgr. Katarína Goffová

Slovenská limnologická spoločnosť (funkcia: člen)

Ing. Ladislav Hamerlik, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen revíznej komisie)

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 Krištofík, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Kristína Laššová

Slovenská limnologická spoločnosť (funkcia: člen)

Ing. Juraj Majtán, PhD.

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 Tarageľová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Diana Selyemová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Michal Stanko, DrSc.

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

RNDr. Ferdinand Šporka, CSc.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen)

RNDr. Elena Štefková, PhD.

Slovenská botanická spoločnosť pri SAV (funkcia: tajomník)
Slovenská botanická spoločnosť pri SAV (funkcia: člen)
Slovenská limnologická spoločnosť (funkcia: člen)
Slovenská limnologická spoločnosť pri SAV (funkcia: hospodár)

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

Ústav Zoológie SAV v spolupráci s Virologickým ústavom a Parazitologickým ústavom SAV sa podieľal na organizovaní vedeckej konferencie - III. Labudove dni s medzinárodnou účasťou, ktorá

sa konala v dňoch 24-25. apríla 2013 v Bratislave. Viacerí pracovníci ÚZ SAV boli v programovom a organizačnom výbore konferencie

Ocenenie

Monografia s názvom "*Cicavce Slovenska, rozšírenie, bionómia a ochrana* " vydaná v roku 2012 vydavateľstvom VEDA získala prestížne ocenenie udelené Literárnym fondom v kategórii biologických a lekárskeho vied. Spoluautorsky/editorsky sa na knihe podielali aj autori s ÚZ SAV.

Vyznamenanie – **Zlatý kosák**, udelil – Ministerstvo pôdohospodárstva a rozvoja vidieka SR, za – “Využitie bioterapeutických metód v medicínskej praxi” na 40. medzinárodnej poľnohospodárskej a potravinárskej výstave Agrokomplex 2013 v Nitre.

Vyznamenanie – **Cena Zlatá Incheba**, udelil – INCHEBA EXPO Bratislava, za – “Za nové bioterapeutické metódy” na výstave Slovmedica 2013 v Bratislave

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		13597
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		20
v tom	kúpou	0
	darom	20
	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		249
z toho	odborná literatúra pre dospelých	93
	výpožičky periodík	145
	prezenčné výpožičky	11
MVS iným knižniciam		12
MVS z iných knižníc		0
MMVS iným knižniciam		0
MMVS z iných knižníc		62
Počet vypracovaných bibliografií		12
Počet vypracovaných rešerší		7

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	70
Návštevníci knižnice spolu (bez návštevníkov podujatí)	70

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. Stanislav Kalúz, CSc.

- Komisia SAV pre životné prostredie (tajomník)

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 31.12.2013 spolu	v tom:			
		zo ŠR od zriaďovateľ a	z vlastných zdrojov	z iných zdrojov	z toho: ŠF EÚ
Výdavky spolu	2199243	974315	208671	1016257	696376
Bežné výdavky	2013688	974315	181813	857560	565475
v tom:					
mzdy (610)	766072	507494	45265	213313	160629
poistné a príspevok do poistovní (620)	272968	176109	15239	81620	61939
tovary a služby (630)	648213	196497	121308	330408	153715
z toho: časopisy	5821	5821			
VEGA projekty	100449	100449			
MVTS projekty	21489	21489			
CE					
vedecká výchova	6000	6000			
bežné transfery (640)	326435	94215		232220	189193
z toho: štipendiá	94215	94215			
transfery partnerom projektov	232220			223220	189193
Kapitálové výdavky	185555		26858	158697	130901
v tom:					
obstarávanie kapitálových aktív	54654		26858	27796	
kapitálové transfery	130901			130901	130901
z toho: transfery partnerom projektov	130901			130901	130901

12.2. Príjmy PO SAV

Tabuľka 12b Príjmy PO SAV (v €)

P r í j m y	Skutočnosť k 31.12.2013 spolu	v tom:	
		rozpočtové	z mimoroz p. zdrojov
Príjmy spolu	2235877	974315	1261562
Nedaňové príjmy	155426		155426
v tom:			
príjmy z prenájmu	480		480
príjmy z predaja výrobkov a služieb	154946		154946
iné			
Granty a transfery (mimo zdroja 111)	1261562		1261562
v tom:			
tuzemské			
z toho: APVV	277168		277168
iné	906894		906894
zahraničné	77500		77500
z toho: projekty rámcového programu EÚ	77500		77500
iné			

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2013

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Žitňan Dušan

Medaila špičkovému tímu Ústavu zoológie SAV pod vedením D. Žitňana pri príležitosti 60. výročia založenia SAV

Oceňovateľ: Predseda SAV

15.1.2. Iné domáce ocenenia

Krištofík Ján

prémia za vedeckú a odbornú literatúru za rok 2012 v kategórii biologické a lekárske vedy za dielo Cicavce Slovenska, rozšírenie, bionómia a ochrana

Oceňovateľ: Literárny fond

Prokop Pavol

Prémia Literárneho fondu za najvýznamnejší vedecký ohlas

Oceňovateľ: Literárny fond

Opis: 1. miesto

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

Ústav zoológie SAV podobne ako všetky ostatné ústavy akadémie žil pripravovanými zmenami, ktoré súvisia s transformáciou akademických pracovísk na verejné výskumné organizácie VVI. Krátko po svojom vzniku naše pracovisko začalo pôsobiť v režime príspevkovej organizácie. V uplynulých rokoch si pracovníci zvykli na skutočnosť, že časť nákladov na chod pracoviska je potrebné vykryť z mimorozpočtových zdrojov. Úspešnosť výskumných tímov pracoviska pri získavaní mimorozpočtových zdrojov umožnila nielen získať chýbajúce prostriedky, ale taktiež zrekonštruovať priestory ústavu, vybudovať nové laboratória a zakúpiť kvalitné prístrojové vybavenie. Z tohto pohľadu naše pracovisko víta a plne podporuje úsilie Predsedníctva SAV o vytvorenie podmienok na prechod pracovísk akadémie na VVI. Pozorne sme sledovali celoakademickú diskusiu zameranú na potenciálne zlučovanie pracovísk do väčších organizačných celkov. Táto téma bola opakovane diskutovaná ako na stretnutiach ústavnej tak aj vedeckej rady pracoviska. Na pracovisko panuje zhodný názor, že zlučovanie pracovísk je vhodné riešiť výlučne na princípe dobrovoľnosti, nie na základe rozhodnutia zhora. Skúsenosti s chodom pracovísk po transformácii na VVI ukážu, ktoré pracoviská a či vôbec je zmysluplné zlúčiť.

Správu o činnosti organizácie SAV spracoval(i):

Ing. Juraj Majtán, PhD., 02/5930 2647

Riaditeľ organizácie SAV:

.....
RNDr. Milan Kozánek, CSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2013****Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	doc. RNDr. Michal Stanko, DrSc.	100	1.00
2.	RNDr. Dušan Žitňan, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Ing. Tomáš Čejka, PhD.	100	1.00
2.	RNDr. Fedor Čiampor, PhD	100	1.00
3.	RNDr. Zuzana Čiamporová-Zaťovičová, PhD.	100	1.00
4.	RNDr. Alžbeta Darolová, CSc.	100	1.00
5.	MVDr. Markéta Derdáková, PhD.	100	1.00
6.	RNDr. Marta Illyová, PhD.	100	1.00
7.	RNDr. Stanislav Kalúz, CSc.	100	1.00
8.	RNDr. Mária Kazimírová, CSc.	100	1.00
9.	RNDr. Milan Kozánek, CSc.	100	1.00
10.	RNDr. Ján Krištofík, CSc.	100	1.00
11.	Ing. Juraj Majtán, PhD.	100	1.00
12.	RNDr. Peter Mašán, PhD.	100	1.00
13.	Doc. PaedDr. Pavol Prokop, PhD.	50	0.50
14.	Ing. Ladislav Roller, PhD.	100	1.00
15.	Mgr. Veronika Rusňáková Taragel'ová, PhD.	100	1.00
16.	RNDr. Mirko Slovák, CSc.	100	1.00
17.	RNDr. Ferdinand Šporka, CSc.	100	1.00
18.	RNDr. Elena Štefková, PhD.	100	1.00
19.	Ing. Zbyšek Šustek, CSc.	100	1.00
20.	RNDr. Peter Takáč, CSc.	100	1.00
21.	Mgr. Radovan Václav, PhD.	100	1.00
22.	RNDr. Ľubomír Vidlička, CSc.	100	1.00
Vedeckí pracovníci			
1.	Ing. Marek Barta, PhD.	40	0.40
2.	Ing. Martin Florian, PhD.	100	1.00

3.	Mgr. Veronika Michalková, PhD.	10	0.10
4.	Mgr. Ladislav Pekárik, Ph.D	100	1.00
5.	Mgr. Diana Selyemová, PhD.	100	1.00
6.	RNDr. Ivana Valachová, PhD.	100	1.00
7.	Ing. Juraj Varinský	100	1.00
Odborní pracovníci s VŠ vzdelaním			
1.	Mgr. Lenka Berthová	33	0.33
2.	RNDr. Jozef Čarnogurský, PhD.	100	1.00
3.	Mgr. Ivana Daubnerová, PhD.	100	1.00
4.	Ing. Dana Groschova	100	1.00
5.	Mgr. Mária Habrmanová	100	1.00
6.	RNDr. Vlasta Lúčanová	100	1.00
7.	Mgr. Iveta Mikušiaková	100	1.00
8.	Mgr. Lenka Mydlová	100	1.00
9.	Mgr. Dagmar Práznovská	100	1.00
10.	Mgr. Emanuel Procházka, PhD.	100	1.00
11.	Ing. Danko Sitarčíková	100	1.00
12.	Mgr. Eva Špitalská, PhD.	33	0.33
Odborní pracovníci ÚSV			
1.	Alexander Baranovič	100	1.00
2.	Ladislav Danko	100	1.00
3.	Lýdia Drinková	100	1.00
4.	Peter Fleischer	100	1.00
5.	Mária Gudabová	100	1.00
6.	Barbora Rajčková	100	1.00
7.	Oľga Sokolová	100	1.00
8.	Janka Šimášková	100	1.00
9.	Eva Vráblová	100	1.00
10.	Jana Weisová	100	1.00
Ostatní pracovníci			
1.	Matúš Čajkovič	100	1.00
2.	Pavol Haris	100	1.00
3.	Juraj Kaps	50	0.50
4.	Lucia Pajdlhauserová	100	1.00
5.	Zuzana Pelikánová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	RNDr. Jaroslav Černý, CSc.	1.1.2013	1.00
Vedeckí pracovníci			
1.	Ing. Ladislav Hamerlik, PhD.	30.4.2013	0.10
2.	RNDr. Ladislav Šimo, PhD.	31.3.2013	0.10
Odborní pracovníci s VŠ vzdelaním			
1.	Ing. Jan Kohout	31.10.2013	1.00
2.	Ing. Jana Kohútová	31.10.2013	0.00
3.	Mgr. Boris Lipták	31.7.2013	1.00
Odborní pracovníci ÚSV			
1.	Renata Szalayová	31.1.2013	0.33

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Michaela Bartíková	Přírodovědecká fakulta UK	4.2.5 zoológia
2.	Mgr. Branislav Bednár	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
3.	Mgr. Jana Bohová	Přírodovědecká fakulta UK	4.2.5 zoológia
4.	Mgr. Helena Čičková	Přírodovědecká fakulta UK	4.2.5 zoológia
5.	Mgr. Katarína Goffová	Přírodovědecká fakulta UK	4.2.5 zoológia
6.	Mgr. Michal Chvostáč	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
7.	Mgr. Eva Krascenitsová	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
8.	Mgr. Kristína Laššová	Přírodovědecká fakulta UK	4.2.5 zoológia
9.	Mgr. Soňa Nuhličková	Přírodovědecká fakulta UK	4.2.5 zoológia
10.	Mgr. Miroslav Poláček	Přírodovědecká fakulta UK	4.2.5 zoológia
11.	Mgr. Zuzana Svitálková	Přírodovědecká fakulta UK	4.2.5 zoológia
12.	Mgr. Tatiana Vaculová	Přírodovědecká fakulta UK	4.2.5 zoológia
13.	Mgr. Michal Vrabec	Přírodovědecká fakulta UK	4.2.5 zoológia
Interní doktorandi hrazení z jiných zdrojov			
<i>organizácia nemá interných doktorandov hrazených z jiných zdrojov</i>			
Externí doktorandi			
1.	Mgr. Ivana Baráková	Přírodovědecká fakulta UK	4.2.3 molekulárna biológia
2.	Mgr. Juraj Čačaný	Přírodovědecká fakulta UK	4.2.5 zoológia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Diverzita a prenos kliešťami prenášaných patogénov (*Diversity and transmission of tick-borne pathogens*)

Zodpovedný riešiteľ: Mária Kazimírová
Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 2 - Nemecko: 2
Čerpané financie:

Dosiahnuté výsledky:

Programy: IAEA

2.) Overovanie a zdokonaľovanie nových technológií pre rozsiahle chovy *Glossina gambiensis* a pre diaľkovú prepravu lietavého materiálu na podporu centier masového chovu bodaviek tsetse v Západnej Afrike (*Validation and refinement of new techniques for large scale rearing and for long-distance transport of fly material in support of tsetse mass rearing centres in West Afrika*)

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 6.5.2011 / 6.5.2014
Evidenčné číslo projektu: IAEA 16773
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: IAEA: 36000 €

Podpora medzinárodnej spolupráce z národných zdrojov: 2000 €

Dosiahnuté výsledky:

V roku 2013 sa pokračovalo v intenzívnom masovom chove bodaviek tsetse druhu *Glossina palpalis gambiensis*. Podarilo sa nám udržať početnosť kolónie na 80 000 samičiek. Chovy sa prevádzali na novom zariadení masového chovu tsetse, typového radu TPU4. Zároveň zariadenie slúžilo ako testovacie zariadenie na potencionálne využitie TPU4 aj v zariadení masového chovu bodaviek tsetse v Afrike. Ďalej sme testovali introgresívnu hybridizovanú kolóniu dvoch línii *Glossina palpalis gambiensis* (SEN) zo Senegalu a (BKF) z CIRDES v Burkina Faso. Nová línia SEN-BKF vykazuje väčšiu odolnosť a životaschopnosť pri vypúšťaní do prírody v Senegale.

V rámci ďalšieho cieľa projektu sme sa v spolupráci s entomologickým laboratóriom IAEA v Seibersdorfe, v Rakúsku zamerali na výskum štandardizácie transportných podmienok pri transporte schladených a ožiarených samčích kukiel bodaviek tsetse. Transportovali sme ožiarené samčie kukly do zariadenia Ecologie et contrôle des vecteurs, CIRAD - Département Systèmes Biologiques - UMR15 CIRAD/INRA Contrôle des maladies animales exotiques et émergentes, Institut Sénégalais de Recherches Agricoles ISRA, Dakar-Han. Celý tento transportný proces bol sledovaný a monitorovaný. Výsledky transportu sme si navzájom konfrontovali. Podmienky štandardizácie transportných podmienok sa ešte doľadujú.

3.) Masový chov a výskum bodaviek tsetse na eradikáciu bodaviek v Etiópii (*Mass rearing and research of tsetse flies for tsetse eradication in Ethiopia*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 1.9.2009 / 31.12.2013
Evidenčné číslo projektu: IAEA-ETH5012-90076
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 4 - Rakúsko: 1, Etiópia: 3
Čerpané financie: IAEA: 27950 €

Dosiahnuté výsledky:

4.) Starostlivosť o kolóniu do počtu 50000 Tororo línie ,samíc Glossina pallidipes
(*Maintenance of a colony of up 50000 Tororo strain of Glossina pallidipes female*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 17.10.2011 / 31.12.2013
Evidenčné číslo projektu: 201104538-GS
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: IAEA: 27950 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 15.11.2013 / 15.11.2014
Evidenčné číslo projektu: 17713
Organizácia je nie

koordinátorom projektu:

Koordinátor: International Atomic Energy Agency
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: IAEA: 10000 €

Podpora medzinárodnej spolupráce z národných zdrojov: 3667 €

Dosiahnuté výsledky:

V roku 2013 sme v rámci technického kontraktu dodávali živé kukly muchy tse - tse v počte 10 000 kusov, podľa potreby účastníkov CRP " Enhancing Vector Refractoriness to Trypanosome Infection" a. 200 kukiel z G. m . morsitans , G. pallidipes , G.palpalis gambiensis a G. f . fuscipes kolónie, mesačne S. Aksoy , Yale, USA . b. Štyri zásielky po 200 kukiel G. m . morsitans dodané A. Malacrida , Pavia, Taliansko. C. Kukly(1000ks z každého druhu) G. pallidipes a G. fuscipes dodané N. Maniana , ICIPE , Keňa. Zároveň sme spolupracovali na experimentoch s laboratóriom Prof. Serap Aksoy, Yale,USA, týkajúcich sa prenosu endosymbiotických baktérií do potomstva počas vnútromaternicového larválneho vývoja. Štúdia bola zameraná na vzájomnú molekulárnu výmenu informácií baktérií a potomstva, na bakteriálne zmeny transkriptomu v dospeljej samičke a v larve v priebehu vývoja . Expresia bakteriálnych génov počas vývoja bude závislá od expresie hostiteľských molekúl , ktoré môžu modulovať prenos trypanozóm v novovznikajúcom potomstve , a to najmä tých s antitrypanozómovou aktivitou.

Programy: INTERREG

6.) Revitalizácia rieky Moravy: Plán opatrení pripravený v súlade so smernicami EÚ o ochrane vôd a prírody (*The Morava River Restoration: Plan of measures prepared in agreement with EC Water and Nature Protection Directives*)

Zodpovedný riešiteľ: Ferdinand Šporka
Trvanie projektu: 1.10.2010 / 31.5.2013
Evidenčné číslo projektu: N_00094
Organizácia je koordinátorom projektu: nie
Koordinátor: via donau, Österreichische Wasserstraßen-Gesellschaft mbH
Počet spoluriešiteľských inštitúcií: 10 - Rakúsko: 3, Slovensko: 7
Čerpané financie:

Podpora medzinárodnej spolupráce z národných zdrojov: 4000 €

Dosiahnuté výsledky:

Aktivity UZ SAV v záverečnom treťom období riešenia projektu sústredili na ukončenie spracovania odobratých vodných organizmov: bezstavovcov, rozsievok a makrofytov. Bola vypracovaná záverečná správa jednak za pracovný balík WP 4 Biotický monitoring, a aj podklady a závery pre WP 2 štúdia uskutočniteľnosti a WP 5 syntéza. Na základe vypracovaných variantov riešenia sme sa podieľali na výbere najvhodnejšej varianty revitalizačných opatrení dotknutého úseku hlavného toku rieky Morava. Výsledná záverečná správa, ktorá sa pripravuje bude návrhom spolu s projektovou dokumentáciou na revitalizáciu hlavného toku Moravy v rkm 54,3-69 aj s príľahlými meandrami tak aby ďalšou fázou bol vykonávací projekt. V roku 2014 už po ukončení projektu budú navrhnuté revitalizačné opatrenia predstavené verejnosti najmä obyvateľom obcí ležiacich v katastrálnom území, kde sa budú uskutočňovať.

Programy: 7RP

7.) 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 / 31.12.2014
Evidenčné číslo projektu:	261504
Organizácia je	nie
koordinátorom projektu:	
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:	7RP: 71893 € APVV: 24166 € Podpora medzinárodnej spolupráce z národných zdrojov: 10822 €

Dosiahnuté výsledky:

Biológia a kontrola vektormi prenášaných infekcií v Európe (EDENext) je integrovaný projekt 7.RP EÚ (Health-F3-2010-261504). Cieľom projektu je sledovanie biológie, ekológie a epidemiológie vybraných vektormi prenášaných ochorení v Európe a návrh inovatívnych metód boja proti nim. Ústav zoológie SAV sa v rámci konzorcia podieľa na výskume chorôb prenášaných kliešťami a drobnými cicavcami (hlodavce, hmyzožravce). Monitoruje populácie kliešťov, ich sezónnu aktivitu, výskyt, prevalenciu a genetickú diverzitu kliešťami prenášaných mikroorganizmov (anaplazmy, rickettsie, borélie, neoehrlichie, babézie), vektorovú kompetenciu a kapacitu kliešťov a interakcie medzi prenášačmi, rezervoárovými hosťiteľmi a patogénnymi mikroorganizmami. Sleduje tiež populácie hlodavcov a ich úlohu v cirkulácii kliešťami a hlodavcami prenášaných nákaz. V roku 2013 (tretí rok riešenia) sa pokračovalo v zberoch biologického materiálu (kliešte, hlodavce, vzorky z poľovnej zveri, iných hosťiteľov kliešťov, spoločenských zvierat) vo vybraných biotopoch Slovenska, ktoré sa nachádzajú v oblastiach s rôznym stupňom zásahu človeka (urbánna oblasť, lesný ekosystém, poľnohospodárska krajina). V kliešťoch a hosťiteľoch bola diagnostikovaná prítomnosť kliešťami prenášaných mikroorganizmov použitím molekulárnych metód. Rozsiahly materiál umožní porovnanie prevalencie a diverzity patogénnych mikroorganizmov v kliešťoch a v ich hosťiteľoch v priestore a čase a vyhodnotenie rizík nákaz ľudí a zvierat kliešťami a hlodavcami prenášanými patogénmi. Doterajšie výsledky poukazujú na rozdiely v stupni zamorenia kliešťov a rezervoárových hosťiteľov patogénnymi mikroorganizmami a na rozdiely v genetickej diverzite mikroorganizmov v rôznych biotopoch Slovenska, ako aj na existenciu urbánnych a suburbánnych ohnisk nákaz. Potvrdila sa prítomnosť pre Slovensko nových mikroorganizmov. Výsledky projektu boli prezentované na medzinárodných a domácich konferenciách (XII. International Jena Symposium on Tick-borne Diseases, 12th International Symposium on Ectoparasites of Pets, International conference on Lyme borreliosis and other tick-borne diseases, Zoonózy – spoločná ochrana zdravia ľudí a zvierat, III. Labudove dni) a boli zverejnené v zborníkoch z konferencií vo forme abstraktov a krátkych príspevkov a v publikácii:

Radosa L., Schlegel M., Gebauer P., Ansorge H., Heroldová M., Jánová E., Stanko M., Mošanský L., Fričová J., Pejčoch M., Suchomel J., Purchart L., Groschup M., Krüger D.H., Ulrich R.G., Klempa B.. Detection of shrew-borne hantavirus in Eurasian pygmy shrew (*Sorex minutus*) in Central Europe. *Infection, Genetics and Evolution*, 2013, vol. 19, pp. 403-410.

Programy: Iné

8.) Vplyv včelej materskej kašičky na regeneráciu kože: úloha matrix metaloproteinázy-9
(*Effect of royal jelly on skin regeneration: the role of matrix metalloproteinase-9*)

Zodpovedný riešiteľ: Juraj Majtán
Trvanie projektu: 1.10.2013 / 30.9.2014
Evidenčné číslo projektu: 0173
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie:

Dosiahnuté výsledky:

9.) Molekulárna fyziológia epitracheálneho endokrinného systému (*Molecular Physiology of the Epitrachael Endocrine System*)

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 28.5.2009 / 31.3.2013
Evidenčné číslo projektu: GM067310-11
Organizácia je koordinátorom projektu: nie
Koordinátor: University of California, Riverside, USA
Počet spoluriešiteľských inštitúcií: 5 - USA: 5
Čerpané financie:

Podpora medzinárodnej spolupráce z národných zdrojov: 1000 €

Dosiahnuté výsledky:

Finančné prostriedky MVTS sme použili na podporu projektu NIH GM 67310 „Molekulárna fyziológia epitracheálneho endokrinného systému“. V tomto projekte sme sa zamerali na bioinformatickú analýzu transkriptómu *Bombyx mori* (Illumina sequencing). Výsledky tejto analýzy sme využili na sledovanie expresie a funkcie neuropeptidov a receptorov vo viacerých nervových a endokrinných orgánoch. Bioinformatickú analýzu sme uskutočnili v rámci spolupráce s Prof. M.E. Adamsom, Univ. of California, Riverside a s Bronislavou Brejovou, PhD., Katedra Informatiky, FMFI UK. V rámci tohto projektu sme identifikovali nový neuropeptid a jeho receptor, ktorý má dôležitú funkciu pri reprodukcii hmyzu.

Jiang H, Ikshagva A, Daubnerová I, Chae H, Šimo L, Jung S-H, Yoon Y-K, Seong J-Y, Žitňan D, Park Y, and Kim Y-J (2013). Natalisin, a new tachykinin-like signaling system, regulates sexual activity and fecundity in insects. *Proc. Nat. Acad. Sci. USA* doi/10.1073/pnas.1310676110

Projekty národných agentúr

Programy: VEGA

1.) Ostrovy vegetácie ako zdroje biodiverzity vo veľkomeste (*Green spaces as sources of a biodiversity in a large city*)

Zodpovedný riešiteľ: Tomáš Čejka
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0037/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1071 €

Dosiahnuté výsledky:

2.) 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-Zat'ovičová
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: 7777 €

Dosiahnuté výsledky:

3.) Rozdiely reprodukčných a behaviorálnych parametrov trsteniarika bahenného (Acrocephalus scirpaceus) hniezdiaceho v dvoch rozdielnych typoch vegetácie v pálke (Typha sp.) a trsti obyčajnej (Phragmites australis). (*Differences in reproduction and behavioral parameters in reed warbler (Acrocephalus scirpaceus) nesting in two different microhabitats in cat tail (Typha sp.) and reed (Phragmites australis)*)

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0077/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: VEGA: 4775 €

Dosiahnuté výsledky:

4.) Genetická variabilita *Anaplasma phagocytophilum* a jej význam v epizootológii anaplazmózy voľne žijúcich a hospodárskych zvierat. (*Genetic variability of *Anaplasma phagocytophilum* and its impact in the epizootiology of anaplasmosis of wild animals and livestock*)

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0055/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7213 €

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: 2/0055/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4936 €

Dosiahnuté výsledky:

6.) 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 Krištofík

Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: 2/0137/13
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA: 4761 €

Dosiahnuté výsledky:

7.) Úloha medu v procese eradikácie bakteriálnych patogénov chronických rán (*The role of honey in the eradication process of bacterial pathogens of chronic wounds*)

Zodpovedný riešiteľ: Juraj Majtán
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0057/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA: 7448 €

Dosiahnuté výsledky:

8.) Taxonómia, ekológia a chorológia ektoparazitických roztocov (Acari, Mesostigmata: Dermanyssoidea) vtákov (Aves) v podmienkach Slovenska. (*Dermanyssoid mites (Acari, Mesostigmata) associated with birds and their nests (Aves) in Slovakia, with consideration on taxonomy, ecology and chorology of individual species.*)

Zodpovedný riešiteľ: Peter Mašán
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0012/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: VEGA: 4558 €

Dosiahnuté výsledky:

9.) Aké mechanizmy sa podieľajú pri motivácii rýb k využívaniu príbrežných habitatov na nížinných riekach? (What are the driving forces for the use of inshore riverine habitats by fish species?)

Zodpovedný riešiteľ: Ladislav Pekárik
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0080/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5650 €

Dosiahnuté výsledky:

10.) 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: 3688 €

Dosiahnuté výsledky:

11.) Nové trendy digitálnej morfometrie v taxonómii a semiautomatickej identifikácii ekonomicky významných fytofágnych Thysanoptera

Zodpovedný riešiteľ: Pavol Prokop
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 1/0137/2011
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká Fakulta UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 667 €

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: 8056 €

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: 5153 €

Dosiahnuté výsledky:

14.) Identifikácia nových antikoagulantov v slinných žľazách kliešťov (*Acari: Ixodidae*) (*Identification of novel anticoagulants in salivary glands of ticks (*Acari: Ixodidae*)*)

Zodpovedný riešiteľ: Mirko Slovák
Trvanie projektu: 1.1.2012 / 31.12.2014
Evidenčné číslo projektu: 2/0060/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 6202 €

Dosiahnuté výsledky:

15.) Analýza výskytu a prenosu vybraných intracelulárnych patogénov u zvierat a ľudí a komplexné riešenie ich diagnostiky (*Analysis of the occurrence and transmission of selected intracellular pathogens in animals and humans and complex solution of their diagnostics*)

Zodpovedný riešiteľ: Michal Stanko
Trvanie projektu: 1.1.2012 / 31.12.2014
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Lekárska fakulta UPJŠ Košice
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 3110 €

Dosiahnuté výsledky:

V druhom roku riešenia projektu pokračoval výskum drobných cicavcov, ich parazitov v urbánnych a suburbánnych biotopoch košickej aglomerácie. Pokračoval monitoring kliešťov v parkoch Košíc, prímestských lesoch a kontrolných lokalitách Košickej kotliny a Slovenského krasu. Boli analyzované tkanivá hlodavcov, ich séra, ako aj vybrané skupiny ektoparazitov na prítomnosť bakteriálnych a protozoárnych patogénov.

16.) Postglaciálny vývoj prostredia v Tatrách: multidisciplinárna paleoekologická štúdia subalpínskeho jazera (*The Post-Glacial environmental history of the Tatra Mountains (Slovakia): a multidisciplinary palaeolimnological study of a sub-alpine lake*)

Zodpovedný riešiteľ: Ferdinand Šporka
Trvanie projektu: 1.1.2012 / 31.12.2014
Evidenčné číslo projektu: 1/0180/12
Organizácia je koordinátorom projektu: nie
Koordinátor: Fakulta prírodných vied UMB
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2373 €

Dosiahnuté výsledky:

17.) 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: 677 €

Dosiahnuté výsledky:

18.) Vplyv krajiny na ekosystémy tečúcich vôd (*The landscape influence on the running water ecosystems*)

Zodpovedný riešiteľ: Ferdinand Šporka
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 1/0705/11
Organizácia je koordinátorom projektu: nie
Koordinátor: katedra ekológie, Prírodovedecká fakulta UK Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

19.) Zákonitosti formovania spoločenstiev vybraných skupín bezstavovcov v horských ekosystémoch v podmienkach meniacej sa klímy a antropogénnych zásahov (*Forming of taxocoenoses of selected groups of invertebrates in mountain ecosystems influenced by natural catastrophes, climatical changes and anthropogenic interventions*)

Zodpovedný riešiteľ: Zbyšek Šustek
Trvanie projektu: 1.1.2010 / 31.12.2013
Evidenčné číslo projektu: 2/0140/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2142 €

Dosiahnuté výsledky:

20.) Populačná ekológia svišťa vrchovského tatranského *M. marmota latirostris* (*Population*

ecology of the alpine marmot M. marmota latirostris)

Zodpovedný riešiteľ: Radovan Václav
Trvanie projektu: 1.1.2010 / 30.12.2013
Evidenčné číslo projektu: 2/0176/10
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5430 €

Dosiahnuté výsledky:

21.) 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:

22.) 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: 2/0186/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 10501 €

Dosiahnuté výsledky:

Programy: APVV

23.) Biodiverzita riečnych koridorov tropických pralesov: súčasný stav, vplyv antropogénnej činnosti a perspektíva obnovy (*Biodiversity of river corridors in tropical forests: present state, human impacts and restoration perspectives*)

Zodpovedný riešiteľ: Fedor Čiampor
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0213-10
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 3 - Slovensko: 3
Čerpané financie: APVV: 40731 €

Dosiahnuté výsledky:

ČIAMPOR Jr, F., LAŠŠOVÁ, K. & ČIAMPOROVÁ-ZAŤOVIČOVÁ, Z. 2013. *Hypsilara breweri* n.sp. from Venezuela: description of new species with notes on the morphology and phylogenetic relationships of the genus? (Coleoptera: Elmidae: Larainae). *Zootaxa* 3635 (5): 591–597
DERKA, T. & TIerno DE FIGUEROA, J.M. 2013. *Enderleina khazeni* n. sp. (Plecoptera, Perlidae), a new stonefly from Venezuelan Guayana. *Zootaxa* 3619 (1): 075–078
DERKA, T., FEDOR, P., SVITOK, M. & TRIZNA, M. 2013. *Hydrolutos gransabanensis* sp.n. (Orthoptera: Anostostomatidae), ?a new semi-aquatic Lutosini species from Gran Sabana (Venezuela). *Zootaxa* 3682 (3): 432–440
VIDLIČKA, Ľ. 2013. Cockroaches (Blattaria) of Ecuador—checklist and history of research. *Zootaxa* 3599 (5): 401–445
VIDLIČKA, Ľ. 2013. New species of *Macrophyllodromia* (Blattaria, Blattellidae) from Ecuador and a key to males of the genus. *Zootaxa* 3635 (2): 185–193
VRŠANSKÝ, P., VIDLIČKA, Ľ., BARNA, P., BUGDAEVA, E. & MARKEVICH, V. 2013. Paleocene origin of the cockroach families Blaberidae and Corydiidae: Evidence from Amur River region of Russia. *Zootaxa* 3635 (2): 117–126

24.) 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: 25674 €

Dosiahnuté výsledky:

MAJTÁN, Juraj - BOHOVÁ, Jana - GARCIA-VILLALBA, Rocio - TOMAS-BARBERAN, F.A. - MADAKOVA, Zuzana - MAJTÁN, Tomáš - MAJTÁN, Viktor - KLAUDINY, Jaroslav. Fir honeydew honey flavonoids inhibit TNF- α -induced MMP-9 expression in human keratinocytes: a new action of honey in wound healing. In Archives of Dermatological Research, 2013, vol. 305, no. 7, p. 619-627.

MAJTÁN, Juraj - MAYER, Alexander - HORNIÁČKOVÁ, M. - MAJTÁN, Viktor - OLEJNIK, J. Včelí med v procese hojenia rán. In Hojení ran, 2013, roč. 7, č. 3, p. 3-5.

MAJTÁN, Juraj. Honey in Pediatrics. In Honey in Traditional and Modern Medicine. Boukraâ La?d (ed). - CRC Press, Taylor & Francis Group, 2013, chapter 11, p. 231-240. ISBN -10: 1439840164 , -13: 978-1439840160.

MAJTÁNOVÁ, Nora - ČERNÁK, Martin - NEKORANCOVÁ, J. - ČERNÁK, Andrej - MAJTÁN, Juraj. Možnosti využitia včelieho medu v oftalmológii. In Česká a slovenská oftalmologie : Časopis české a slovenské oftalmologické společnosti, 2013, roč. 69, č. 3, str. 128-132.

25.) Harmonizácia kvalitatívnych a kvantitatívnych metód monitoringu spoločenstva veľkých riek (*Harmonisation of methods for the monitoring of qualitative and quantitative composition of fish stock of large rivers*)

Zodpovedný riešiteľ:	Ladislav Pekárik
Trvanie projektu:	1.1.2012 / 31.12.2013
Evidenčné číslo projektu:	SK-SRB-0057-11
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2250 €

Dosiahnuté výsledky:

26.) 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	áno
koordinátorom projektu:	
Koordinátor:	Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 9754 €

Dosiahnuté výsledky:

27.) 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: 49886 €

Dosiahnuté výsledky:

28.) Spoločenstvá lienkovitých v podmienkach zmien klímy a introdukcia nového druhu Harmonia axyridis

Zodpovedný riešiteľ: Diana Selyemová
Trvanie projektu: 1.1.2012 / 31.12.2013
Evidenčné číslo projektu: SK-CZ-0200-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

29.) Štruktúra ohnisk a vynárajúce sa choroby s dôrazom na úlohu drobných cicavcov v prírodných ohniskách urbánneho typu krajiny (*Structure of foci and emerging diseases with emphasis on role of rodents in urban type of natural foci of diseases*)

Zodpovedný riešiteľ: Michal Stanko
Zodpovedný riešiteľ v organizácii SAV: Markéta Derdáková
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0267-10
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie:

Dosiahnuté výsledky:

30.) 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:

Dosiahnuté výsledky:

31.) Výskum symbiontov bodaviek tsetse a ich účinok na na masovo chované kolónie (*Investigation of tsetse fly symbionts and their infect on mass reared colonies*)

Zodpovedný riešiteľ: Peter Takáč
Trvanie projektu: 1.1.2013 / 31.12.2014
Evidenčné číslo projektu: SK-GR-0063-11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

32.) Nové postupy pri transformácii hmyzu (*Novel approaches in insect transformation*)

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.1.2012 / 31.12.2014
Evidenčné číslo projektu: SK-GR-0034-11
Organizácia je koordinátorom projektu: áno

Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Výskum a vývoj

33.) Vývoj a aplikácia inovatívneho diagnostického postupu pre molekulárnu identifikáciu živočíchov (*Development and application of the innovative diagnostic approach for the molecular identification of animals*)

Zodpovedný riešiteľ: Zuzana Čiamporová-Zat'ovičová
Trvanie projektu: 1.11.2010 / 31.10.2013
Evidenčné číslo projektu: ITMS-26240220049
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: ASFEU: 96025 €

Dosiahnuté výsledky:

34.) Vývoj ekologických metód pre kontrolu populácií vybraných druhov lesných škodcov v zraniteľných vysokohorských oblastiach Slovenska (*Development of ecological methods for control of populations of selected forest pests in vulnerable alpine regions of Slovakia*)

Zodpovedný riešiteľ: Milan Kozánek
Trvanie projektu: 1.8.2010 / 31.7.2014
Evidenčné číslo projektu: ITMS-262400220087
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

35.) 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 / 31.5.2014
Evidenčné číslo projektu: ITMS-262400220030
Organizácia je koordinátorom projektu: nie
Koordinátor: Scientica, s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

36.) Vývoj diagnostických postupov pre detekciu patogénov prenášaných kliešťami a postupov na prípravu vakcín proti kliešťom (*Development of methods for detection of tick-borne pathogens and vaccine strategies directed toward tick control*)

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.11.2010 / 31.10.2013
Evidenčné číslo projektu: ITMS-26240220044
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie:

Dosiahnuté výsledky:

Programy: Centrá excelentnosti SAV

37.) Centrum excelentnosti pre Glykomiku (*Centre of excellence for Glycomics*)

Zodpovedný riešiteľ: Igor Tvaroška
Zodpovedný riešiteľ v organizácii SAV: Peter Takáč
Trvanie projektu: 1.3.2010 / 31.3.2013
Evidenčné číslo projektu: ITMS-26240120031
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 5 - Slovensko: 5
Čerpané financie:

Dosiahnuté výsledky:

Programy: Iné projekty

38.) Dlhodobé udržateľné využitie biodiverzity Kénskej republiky cez bioprospekting a transfer modelovej biotechnológie (*Sustainable utilization of biodiversity of Kenya by bioprospecting and transfer of model biotechnology*)

Zodpovedný riešiteľ:	Milan Kozánek
Trvanie projektu:	1.10.2013 / 30.9.2014
Evidenčné číslo projektu:	SAMRS/2013/KEN/01/02
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií:	1 - Keňa: 1
Čerpané financie:	Slovak Aid: 26620 €

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (zoradená podľa kategórií)

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 FALISOVÁ, Anna - TAKÁČ, Peter - LENGYELOVÁ, Tünde. Výskum a vývoj nových bioterapeutických metód : chronológia, etnografické aspekty, pramene. Bratislava : Historický ústav SAV, 2013. 130 s. Publikácia k projektu OPVV 26240220030 Výskum a vývoj nových bioterapeutických metód a ich využitie pri liečbe niektorých závažných ochorení. ISBN 978-80-971483-2-4.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 ŠIMO, Ladislav - SONENSHINE, Daniel E. - PARK, Y. - ŽITŇAN, Dušan. The Nervous and Sensory Systems: Structure, Function, Proteomics and Genomics. : (Book chapter). In Biology of Ticks. Volume 1. - Oxford, GB : Oxford University Press, Inc, 2013, pp. 309-367. ISBN 978-0-19-974405-3.
- ABC02 VALACHOVÁ, Ivana - BOHOVÁ, Jana - KOZÁNEK, Milan - TAKÁČ, Peter - MAJTÁN, Juraj. Lucilia sericata medicinal maggots: a new source of antimicrobial compounds. In Microbial pathogens and strategies for combating them: science, technology and education. Vol. 3. - Formatex Research Center, 2013, p. 1745-1753. ISBN ISBN: 978-84-942134-1-0. Dostupné na internete: <<http://www.formatex.info/microbiology4/vol3/table-contents.pdf>>.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 ANTOLOVÁ, Daniela - REITEROVÁ, Katarína - STANKO, Michal - ZALESNY, Gregorz - FRIČOVÁ, Jana - DVOROŽŇÁKOVÁ, Emília. Small mammals: paratenic hosts for species of Toxocara in eastern Slovakia. In Journal of Helminthology, 2013, vol. 87, no.1, p.52-58. (1.157 - IF2012). (2013 - Current Contents). ISSN 1475-2697. APVV-0267-10, VEGA č. 02/0011/12, ITMS 26220120002.
- ADCA02 BAUMANN, Aaron A. - BENOIT, Joshua B. - MICHALKOVÁ, Veronika - MIREJI, Paul O. - ATTARDO, Geoffrey M. - MOULTON, John K.. - WILSON, Thomas G. - AKSOY, Serap. Juvenile hormone and insulin suppress lipolysis between periods of lactation during tsetse fly pregnancy. In Molecular and Cellular Endocrinology, 2013, vol. 372, no. 1-2, p. 30-41. (4.039 - IF2012). (2013 - Current Contents). ISSN 0303-7207. Dostupné na internete: <http://ac.els-cdn.com/S0303720713000774/1-s2.0-S0303720713000774-main.pdf?_tid=66ab4c9c-dfdc-11e2-bea3-00000aabb0f02&acdnat=1372415028_197837c2987c6f9a860c3d3cdf11e1c5>.
- ADCA03 PANGRÁCOVÁ, Lucia - DERDÁKOVÁ, Markéta - PEKÁRIK, Ladislav - HVIŠČOVÁ, Ivana - VÍCHOVÁ, Bronislava - STANKO, Michal - HLAVATÁ, Helena - PETKO, Branislav. Ixodes ricinus abundance and its infection with the tick-borne pathogens in urban and suburban areas of Eastern Slovakia. In Parasites & vectors, 2013, vol. 6, iss. 1, article no. 238, 8 pp. (3.246 - IF2012). ISSN 1756-3305. Vega č. 2/0055/11, Vega č. 2/0137/10, APVV-0267-10, ITMS 26240220044. Dostupné na internete: <<http://www.parasitesandvectors.com/content/6/1/238>>.
- ADCA04 BONA, Martin - STANKO, Michal. First records of the tick Ixodes frontalis (Panzer, 1795) (Acari, Ixodidae) in Slovakia. : Short communication. In Ticks and Tick-Borne Diseases, 2013, vol. 4, p. 478- 481. (2.353 - IF2012). (2013 - Current

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- ADCA05 CALERO-TORRALBO, Miguel A. - VÁCLAV, Radovan - VALERA, Francisco. Intra-specific variability in life-cycle synchronization of an ectoparasitic fly to its avian host. In *Oikos*, 2013, vol. 122, no., p. 274–284. (3.329 - IF2012). (2013 - Current Contents). ISSN 0030-1299.
- ADCA06 ČIAMPOR, Fedor, ml. - LAŠŠOVÁ, Kristína - ČIAMPOROVÁ-ZAŤOVIČOVÁ, Zuzana. *Hypsilara breweri* n.sp. from Venezuela: description of new species with notes on the morphology and phylogenetic relationships of the genus (Coleoptera: Elmidae: Larainae). In *ZOOTAXA*, 2013, vol. 3635, no. 5, p. 591-597. (0.974 - IF2012). (2013 - Current Contents). ISSN 1175-5334.
- ADCA07 ČÍČKOVÁ, Helena - ČAMBÁL, M. - KOZÁNEK, Milan - TAKÁČ, Peter. Growth and Survival of Bagged *Lucilia sericata* Maggots in Wounds of Patients Undergoing Maggot Debridement Therapy. In *Evidence-based Complementary and Alternative Medicine*, 2013, vol. 2013, article ID 192149, 6 pages. (1.722 - IF2012). (2013 - Current Contents). ISSN 1741-427X.
- ADCA08 ČÍČKOVÁ, Helena - KOZÁNEK, Milan - TAKÁČ, Peter. Improvement of survival of the house fly (*Musca Domestica* L.) larvae under mass-rearing conditions. In *Bulletin of entomological research*, 2013, vol. 103, no. 1, p. 119-125. (1.987 - IF2012). (2013 - Current Contents). ISSN 0007-4853.
- ADCA09 ČOBÁDIOVÁ, Andrea - REITEROVÁ, Katarína - DERDÁKOVÁ, Markéta - ŠPILOVSKÁ, Silvia - TURČEKOVÁ, Ľudmila - HVIŠČOVÁ, Ivana - HISIRA, Vladimír. *Toxoplasma gondii*, *Neospora caninum* and tick-transmitted bacterium *Anaplasma phagocytophilum* infections in one selected goat farm in Slovakia. In *Acta Parasitologica*, 2013, vol.58, no. 4, p.541-546. (1.000 - IF2012). (2013 - Current Contents). ISSN 1230-2821. Vega č. 2/0104/11, Vega č. 2/0055/11, ITMS 26220220022.
- ADCA10 ERMILOV, Sergey G. - SHTANCHAEVA, Umukusum YA - KALÚZ, Stanislav - SUBÍAS, Luis S. Three new species of the genus *Pergalumna* (Acari:Oribatida:Galumnidae) from India. In *ZOOTAXA*, 2013, vol. 3682, no. 3, p. 412–420. (0.974 - IF2012). (2013 - Current Contents). ISSN 1175-5334.
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- ADCA16 HAVLÍKOVÁ, Sabina - LIČKOVÁ, Martina - AYLLÓN, Nieves - ROLLER, Ladislav - KAZIMÍROVÁ, Mária - SLOVÁK, Mirko - MORENO-CID, Juan A. - PÉREZ DE LA LASTRA, José M. - KLEMPA, Boris - DE LA FUENTE, Joze. Immunization with recombinant subolesin does not reduce tick infection with tick-borne encephalitis virus nor protect mice against disease. In *Vaccine*, 2013, vol. 31, no. 12, p. 1582–1589. (3.492 - IF2012). (2013 - Current Contents). ISSN 0264-410X.
- ADCA17 HOI, Herbert - KRIŠTOFÍK, Ján - DAROLOVÁ, Alžbeta. Experimentally simulating paternity uncertainty: immediate and long-term responses of male and female Reed Warblers *Acrocephalus scirpaceus*. In *PLoS ONE*, 2013, vol. 8., iss. 4, article no: e62541. (3.730 - IF2012). (2013 - MEDLINE). ISSN 1932-6203. Dostupné na internete: <<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0062541>>.
- ADCA18 HORSÁK, Michal - LOSOSOVÁ, Zdeňka - ČEJKA, Tomáš - JURIČKOVÁ, Lucie - CHYTRÝ, Milan. Diversity and Biotic Homogenization of Urban Land-Snail Faunas in Relation to Habitat Types and Macroclimate in 32 Central European Cities. In *PLoS ONE*, 2013, vol. 8., iss. 8, article Number: e71783. (3.730 - IF2012). (2013 - MEDLINE). ISSN 1932-6203.
- ADCA19 JIANG, Hongbo - LKHAGVA, Ankhbayar - DAUBNEROVÁ, Ivana - CHAE, Hyo-Seok - ŠIMO, Ladislav - JUNG, Sung-Hwan - YOON, Yeu-Kyung - LEE, Na-Rae - JAE, Young - ŽITŇAN, Dušan - PARK, Yoonseong - KIM, Young-Joon. Natalisin, a tachykinin-like signaling system, regulates sexual activity and fecundity in insects. In *Proceedings of the National Academy of Sciences of the United States of America*, 2013, vol. 110, no. 37, p. E3526-34. (9.737 - IF2012). (2013 - Current Contents). ISSN 0027-8424.
- ADCA20 KALÚZ, Stanislav - VRABEC, Michal. Two new species of *Armascirus* (Acari: Prostigmata: Cunaxidae) from Slovakia. In *ZOOTAXA*, 2013, vol. 3734, no. 2, p. 141–155. (0.974 - IF2012). (2013 - Current Contents). ISSN 1175-5334.
- ADCA21 KIFFNER, Christian - STANKO, Michal - MORAND, Serge - KHOKHLOVA, Irina S. - SHENBROT, Georgy I. - LAUDISOIT, Anne - LEIR, Herwig - HAWLENA, Hadas - KRASNOV, Boris R. Sex biased parasitism is not universal: evidence from rodent-flea associations from three biomes. In *Oecologia*, 2013, vol. 173, no. 3, p. 1009-1022. (3.011 - IF2012). (2013 - Current Contents). ISSN 0029-8549.
- ADCA22 KMEŤ, Vladimír - DRUGDOVÁ, Zuzana - KMEŤOVÁ, M. - STANKO, Michal. Virulence and antibiotic resistance of *Escherichia coli* isolated from rooks. In *Annals of Agricultural and Environmental Medicine*, 2013, vol. 20, no. 2, p. 273-275. (3.060 - IF2012). (2013 - Current Contents). ISSN 1232-1966.
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- ADCA25 KRASSENITSOVÁ, Eva - KOZÁNEK, Milan - FERENČÍK, Ján - ROLLER, Ladislav - STAUFFER, Christian - BERTHEAU, Coralie. Impact of the Carpathians on the genetic structure of the spruce bark beetle *Ips typographus*. In *Journal of Pest Science*, 2013, vol. 86, p. 669–676. (2.174 - IF2012). (2013 - Current Contents).

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- ADCA26 KRIŠTOFÍK, Ján - DAROLOVÁ, Alžbeta - GRIGGIO, Mateo - MAJTÁN, Juraj - OKULIAROVÁ, Monika - ZEMAN, Michal - ZÍDKOVÁ, Lenka - HOI, Herbert. Does egg colouration signal female and egg quality in reed warbler (*Acrocephalus scirpaceus*)? In *Ethology, Ecology and Evolution*, 2013, vol. 25, iss. 2, p. 129–143. (2013 - Current Contents). ISSN 0391-94370.
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- ADCA28 MAŠÁN, Peter - PEROTTI, M. A. - SALOÑA-BORDAS, M. I. - BRAIG, H. R. *Proctolaelaps euserratus*, an ecologically unusual melicharid mite (Acari, Mesostigmata) associated with animal and human decomposition. In *Experimental and Applied Acarology*, 2013, vol. 61, no. 4, p. 415-429. (1.847 - IF2012). (2013 - Current Contents). ISSN 0168-8162.
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- AGI01 SLABEYOVÁ, Katarína - RIDZOŇ, Jozef - TOPERCER, Ján - DAROLOVÁ, Alžbeta - KARASKA, Dušan. Správa zo zimného sčítania vodného vtáctva na Slovensku 2005/06. Bratislava : Slovenská ornitologická spoločnosť : Birdlife Slovakia, 2009. 154 s.

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2. [3] TÓTH Sándor, KENYERES Zoltán. Revised checklist and distribution maps of mosquitoes (Diptera, Culicidae) of Hungary. EUROPEAN MOSQUITO BULLETIN Vol. 30 (2012) p. 30-65 /Journal of the European Mosquito Control Association ISSN 1460-6127; www.e-m-b.org http://www.pkkt.hu/06_cikkek/emb_30_2012_Culicidae_Hungary.pdf, Google Scholar

BDFB Odborné práce v domácich nekarentovaných časopisoch neimpaktovaných

- BDFB01 DAROLOVÁ, Alžbeta. Synantropizácia sokola myšiara. In *Pamiatky a príroda*, 1988, vol. 19, no. 5, p. 44–45.

Citácie:

1. [4] UHRIN Marcel, DANKO Štefan, LATKOVÁ Hana (2010) Bibliography on birds of prey and owls in Slovakia. Part 3. Order Falconiformes, genus Falco. / Bibliografia dravcov a sov Slovenska. Časť 3. Rad Falconiformes, rod Falco. SLOVAK RAPTOR JOURNAL 4: 115–131. DOI: 10.2478/v10262-012-0055-x., Google Scholar

- BDFB02 STANKO, Michal - MOŠANSKÝ, Ladislav - FRIČOVÁ, Jana. Spoločenstvá drobných cicavcov (Eulipotyphla, Rodentia) alúvií stredného Poiplia (Lučenská a Ipeľská kotlina). In *Ochrana prírody Slovenska : magazín štátnej ochrany prírody*. - Banská Bystrica : ŠOP, 2010, vol. 26, p.43-52. ISSN 1335-7921.

Citácie:

1. [3] BALÁŽ, I.- AMBROS, M – TULIS, P. 2012. Biology and distribution of the species of the family Muridae (Rodentia) in Slovakia. 2nd part: Apodemus flavicollis, Apodemus sylvaticus, Apodemus uralensis, Apodemus agrarius. FPV UKF, Nitra: 174 pp. ISBN 978-80-558-0157-5

DAI Dizertačné a habilitačné práce

- DAI01 DAROLOVÁ, Alžbeta. Niektoré aspekty ekológie populácie sokola myšiara (*Falco tinnunculus* L. 1758) v podmienkach mestskej aglomerácie Bratislavy. : PhD. Thesis, SAV, Bratislava.

Citácie:

1. [1.1] RIEGERT Jan , FAINOVÁ Drahomíra , MIKEŠ Václav, FUCHS Roman (2007) How Urban Kes-trels Falco tinnunculus Divide Their Hunting Grounds: Parti-tioning or Cohabitation? ACTA ORNITHOLOGICA 42(1):69-76. DOI: <http://dx.doi.org/10.3161/068.042.0101>, WOS

2. [4] UHRIN Marcel, DANKO Štefan, LATKOVÁ Hana (2010) *Bibliography on birds of prey and owls in Slovakia. Part 3. Order Falconiformes, genus Falco. / Bibliografia dravcov a sov Slovenska. Časť 3. Rad Falconiformes, rod Falco. SLOVAK RAPTOR JOURNAL 4: 115–131. DOI: 10.2478/v10262-012-0055-x., Google Scholar*
- DAI02 ŠUSTEK, Zbyšek. Role čeledí Carabidae a Staphylinidae v lesních geobiocenózách. Brno : Vysoká škola zemědělská, lesnická fakulta, 1976. S. 64.
Citácie:
1. [9] HOLUŠA O., 2012: *Jednotky lesnicko-typologického systému pro studium živočichů LENICKÁ PRÁCE, 61 (6): 32 - 34, Google Scholar*
- DAI03 ŠUSTEK, Zbyšek. Pokus o vyhodnocení čeledi Carabidae Dobrušky ve srovnání se středoevropskými podmínkami. : Študentská vědecká práce. Brno : Vysoká škola zemědělská v Brně, 1975.
Citácie:
1. [1.1] TEOFILOVA, T. ; MARKOVA, E. & KODZHABASHEV, N. 2012: *The ground beetles (Coleoptera: Carabidae) of the Bulgarian Black Sea Coast. BULGARIAN JOURNAL OF AGRICULTURAL SCIENCE, 18 (3): 370-386., WOS*

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...)

- FAI01 *Príroda rezervácie Šúr*. Editori: Oto Majzlan, Ľubomír Vidlička. Bratislava : Ústav zoológie SAV, 2010. 410 s. ISBN 978-80-970326-0-9.
Citácie:
1. [4] LACKO, J. (2012) *Ornitocenoza Šúrskeho rybníka a jeho blízkeho okolia v priebehu rokov 2010, 2011 a 2012. In: Kubovčík, V. & Stašiov, S. (eds.) Zborník príspevkov z vedeckého kongresu „Zoológia 2012“, 18. FERIANCOVE DNI, s. 113-115. ISBN 978-80-228-2421-7*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Ladislav Pekárik, Ph.D

Názov semestr. predmetu: Bioštatistika

Počet hodín za semester: 26

Názov katedry a vysokej školy: Prešovská univerzita v Prešove, katedra ekológie

Doc. PaedDr. Pavol Prokop, PhD.

Názov semestr. predmetu: Somatický vývin detí a mládeže

Počet hodín za semester: 72

Názov katedry a vysokej školy: Trnavská univerzita v Trnave, katedra biológie

RNDr. Ferdinand Šporka, CSc.

Názov semestr. predmetu: Hydrobiológia

Počet hodín za semester: 2

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

RNDr. Elena Štefková, PhD.

Názov semestr. predmetu: Hydrobiológia 2

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Genetika správania

Počet hodín za semester: 6

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

Semestrálne cvičenia:

RNDr. Elena Štefková, PhD.

Názov semestr. predmetu: Hydrobiológia 2

Počet hodín za semester: 2

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

RNDr. Ľubomír Vidlička, CSc.

Názov semestr. predmetu: Cvičenia zo zoológie bezstavovcov

Počet hodín za semester: 48

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

Semináre:

Terénne cvičenia:

RNDr. Elena Štefková, PhD.

Názov semestr. predmetu: Hydrobiológia 2

Počet hodín za semester: 2

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

Individuálne prednášky:

Ing. Juraj Majtán, PhD.

Názov semestr. predmetu: Bioterapie v modernej medicíne

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská zdravotnícka univerzita v Bratislave, Ústav mikrobiológie

Ing. Juraj Majtán, PhD.

Názov semestr. predmetu: Význam bakteriálneho biofilmu a jeho úloha v patogenéze

Počet hodín za semester: 2

Názov katedry a vysokej školy: Slovenská zdravotnícka univerzita v Bratislave, Ústav mikrobiológie

RNDr. Dušan Žitňan, DrSc.

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

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

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

Počet hodín za semester: 2

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra Molekulárnej Biológie

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

Krajina	D r u h d o h o d y					
	MAD, KD, VTS		Medziústavná		Ostatné	
	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní	Meno pracovníka	Počet dní
Ekvádor					Fedor Čiampor	34
					Zuzana Čiamporová-Zaťovičová	34
Nemecko	Lenka Berthová	14				
	Mária Kazimírová	4				
	Zuzana Svitáľková	40				
Srbsko	Ladislav Pekárik	6				
Počet vyslaní spolu	4	64			2	68

(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	Andrea Gomez-Chamorro	28				
	Anna Obiegala	28				
	Cornelia Silaghi	4				
Srbsko	Dr. Aleksandar Hegediš	5				
	Dr. Mirjana Lenhardt	5				
	Dr. Stefan Skorič	5				
	Dr. Vesna Djikanovič	5				
Počet prijatí spolu	7	80				

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
---------	-------------------	-----------------	-----------

Belgicko	VBORNET	Mária Kazimírová	4
Bulharsko	IAHH	Mária Habrmanová	6
		Peter Takáč	6
Česko	CEDC	Jana Bohová	2
		Helena Čičková	2
		Milan Kozánek	2
Holandsko	EFATH	Mária Kazimírová	3
Indonézia	ICMUH	Juraj Majtán	11
Maďarsko	CHIS	Ladislav Pekárik	3
Nemecko	IJSTD	Markéta Derdáková	5
		Veronika Rusňáková Taragel'ová	5
		Diana Selyemová	5
	ISEP 2013	Lenka Berthová	3
		Zuzana Svitáľková	3
	POSTICK	Mária Kazimírová	3
	SEFC	Ladislav Pekárik	5
	SEFS 8	Fedor Čiampor	5
		Zuzana Čiamporová-Zaťovičová	5
		Katarína Goffová	6
		Marta Illyová	5
		Kristína Laššová	6
Rumunsko	ABIC	Ladislav Pekárik	4
	MSR 2013	Zbyšek Šustek	5
Španielsko	BioMicroWorld 2013	Ivana Valachová	5
	EDENext	Mária Kazimírová	5
Thajsko	INC 2013	Ivana Daubnerová	6
		Dušan Žitňan	6
Ukrajina	Apimondia	Juraj Majtán	7
USA	HCCCB 2013	Dušan Žitňan	5
	ICLB	Markéta Derdáková	7
		Veronika Rusňáková Taragel'ová	7
Veľká Británia	IMAP 2013	Ivana Valachová	4
Spolu	20	32	156

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

Skratky použité v tabuľke C:

ABIC - Aquatic Biodiversity International Conference

Apimondia - XXXXIII International Apicultural Congress - Apimondia

BioMicroWorld 2013 - V. International Conference on Environmental, Industrial and Applied Microbiology

CEDC - 7th central european dipterological conference

CHIS - Conference of Hungarian Ichthyological Society

EDENext - Annual meeting of 7th Framework EDENext

EFATH - 5th International conference on Exogenous Factors affecting Thrombosis and Haemostasis

HCCCB 2013 - Hormonal Control of Circuits for Complex Behaviors

IAHH - 1st Workshop of International Association of Hirudotherapeutists and Hirudologist

ICLB - 13th International conference on Lyme Borreliosis and other tick-borne diseases

ICMUH - 3rd International Conference on the medicinal use of honey bee products

IJSTD - XII. International Jena Symposium on Tick-borne Diseases
IMAP 2013 - 3rd International Meeting on Antimicrobial Peptides
INC 2013 - Invertebrate Neuropeptide Conference 2013
ISEP 2013 - International Symposium on Ectoparasites of Pets
MSR 2013 - Museum and Scientific Research
POSTICK - POSTICK Final Conference
SEFC - Symposium for European Freshwater Science
SEFS 8 - 8th Symposium for European Freshwater Science
SEFS 8 - Symposium for European Freshwater Science
VBORNET - VBORNET