

Ústav zoológie SAV



**Správa o činnosti organizácie SAV
za rok 2020**

Bratislava
január 2021

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1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav zoológie SAV

Riaditeľ: RNDr. Dušan Žitňan, DrSc.

Zástupca riaditeľa: Ing. Ladislav Roller, PhD.

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

Predseda vedeckej rady: Ing. Ladislav Roller, PhD.

Člen Snemu SAV: RNDr. Dušan Žitňan, DrSc.

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Názvy a adresy organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Terénna výskumná stanica v Gabčíkove**
Gabčíkovo 1315

Vedúci organizačných zložiek a detašovaných pracovísk:

Organizačné zložky: nie sú

Detašované pracoviská:

- **Terénna výskumná stanica v Gabčíkove**
vedúci nie je zadáný

Členovia Snemu SAV za organizačné zložky:

nie sú

Typ organizácie: Príspevková od roku 1992

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

| Štruktúra zamestnancov | K | K | | K do 35 rokov | | F | P | T | O |
|-----------------------------------|----|----|----|---------------------|---|----|-------|-------|---|
| | | M | Ž | M | Ž | | | | |
| Celkový počet zamestnancov | 50 | 30 | 20 | 4 | 3 | 49 | 37.46 | 18.52 | 1 |

| | | | | | | | | | |
|---|----|----|----|---|---|----|-------|-------|---|
| Vedeckí pracovníci | 36 | 25 | 11 | 3 | 0 | 35 | 26.16 | 18.28 | 0 |
| Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹) | 4 | 1 | 3 | 1 | 2 | 4 | 1.17 | 0.24 | 0 |
| Odborní pracovníci VŠ (ostatní zamestnanci ²) | 3 | 1 | 2 | 0 | 0 | 3 | 2.63 | 0 | 1 |
| Odborní pracovníci ÚS | 5 | 2 | 3 | 0 | 1 | 5 | 5.5 | 0 | 0 |
| Ostatní pracovníci | 2 | 1 | 1 | 0 | 0 | 2 | 2 | 0 | 0 |

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2020 (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 31.12.2020 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

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

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2020)

| Rodová skladba | Pracovníci s hodnosťou | | | | Vedeckí pracovníci v stupňoch | | |
|-----------------------|-------------------------------|------------------|--------------|-------------|--------------------------------------|--------------|--------------|
| | DrSc. | CSc./PhD. | prof. | doc. | I. | II.a. | II.b. |
| Muži | 3 | 22 | 2 | 2 | 4 | 13 | 8 |
| Ženy | 0 | 12 | 0 | 0 | 0 | 7 | 4 |

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

| Veková štruktúra (roky) | < 31 | | 31-35 | | 36-40 | | 41-45 | | 46-50 | | 51-55 | | 56-60 | | 61-65 | | > 65 | |
|--------------------------------|----------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|--------------|----------|----------------|----------|
| | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B | A | B |
| Muži | 1 | 0.1 | 3 | 3.0 | 1 | 1.0 | 2 | 1.5 | 0 | 0.0 | 2 | 2.0 | 1 | 1.0 | 3 | 1.8 | 2 | 1.0 |
| Ženy | 0 | 0.0 | 0 | 0.0 | 4 | 4.0 | 1 | 1.0 | 1 | 0.5 | 0 | 0.0 | 0 | 0.0 | 2 | 2.0 | 0 | 0.0 |

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2020

| | Kmeňoví zamestnanci | Vedeckí pracovníci | Riešitelia projektov |
|--------------|----------------------------|---------------------------|-----------------------------|
| Muži | 49.0 | 49.9 | 49.3 |
| Ženy | 44.0 | 45.4 | 45.9 |
| Spolu | 47.0 | 48.5 | 48.1 |

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2020

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|--|-------|---|----------------------|-----------------|-----------------|-----------------|----------------|-----------------|
| | A | B | A | | | | B | |
| | | | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | | | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| 1. Projekty VEGA | 10 | 3 | - | - | 68744 | 68744 | - | 3632 |
| 2. Projekty APVV | 4 | 1 | - | - | 197973 | 178868 | - | 20000 |
| 3. Projekty OP ŠF | 0 | 0 | - | - | - | - | - | - |
| 4. Projekty SASPRO | 0 | 0 | - | - | - | - | - | - |
| 5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.) | 0 | 0 | - | - | - | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2020

| Štruktúra projektov | Miesto podania | Organizácia je nositeľom projektu | Organizácia sa zmluvne podieľa na riešení projektu |
|---|----------------|-----------------------------------|--|
| 1. Účasť na nových výzvach APVV r. 2020 | - | 1 | 3 |
| 2. Projekty výziev OP ŠF podané r. 2020 | Bratislava | | |
| | Regióny | | |

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2020

Tabuľka 2c Medzinárodné projekty riešené v roku 2020

| ŠTRUKTÚRA PROJEKTOV | Počet | | Čerpané financie (€) | | | | | |
|--|-------|---|----------------------|-----------------|-----------------|-----------------|----------------|-----------------|
| | A | B | A | | | | B | |
| | | | Zo zdrojov SAV | | Z iných zdrojov | | Zo zdrojov SAV | Z iných zdrojov |
| | | | Spolu | Pre organizáciu | Spolu | Pre organizáciu | | |
| 1. Projekty 7. RP EÚ a Horizont 2020 | 0 | 0 | - | - | - | - | - | - |
| 2. Projekty ERA.NET, ESA, JRP | 0 | 0 | - | - | - | - | - | - |
| 3. Projekty COST | 0 | 0 | - | - | - | - | - | - |
| 4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné | 0 | 1 | - | - | - | - | - | - |
| 5. Projekty v rámci medzivládnych dohôd | 0 | 0 | - | - | - | - | - | - |
| 6. Bilaterálne projekty MAD | 0 | 1 | - | - | - | - | - | - |
| 7. Bilaterálne projekty ostatné | 0 | 0 | - | - | - | - | - | - |
| 8. Podpora MVTs z národných zdrojov okrem SAV (APVV a iné) | 1 | 1 | - | - | 24000 | 24000 | - | 3440 |
| 9. Iné projekty | 1 | 1 | - | - | - | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty Horizont 2020 podané v roku 2020

Tabuľka 2d Počet projektov Horizont 2020 v roku 2020

| | A | B |
|---|---|---|
| Počet podaných projektov Horizont 2020 | | |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

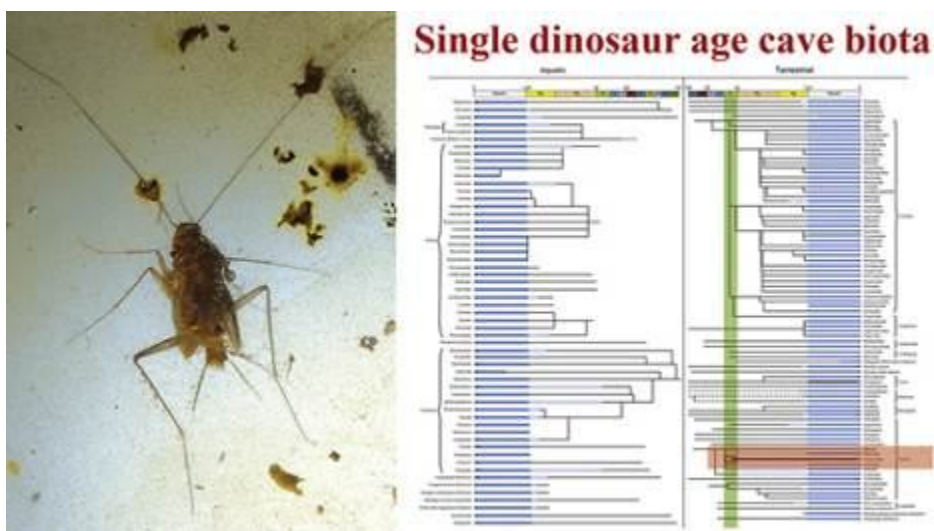
2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

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

2.3.1. Základný výskum

1.) Fauna jaskýň

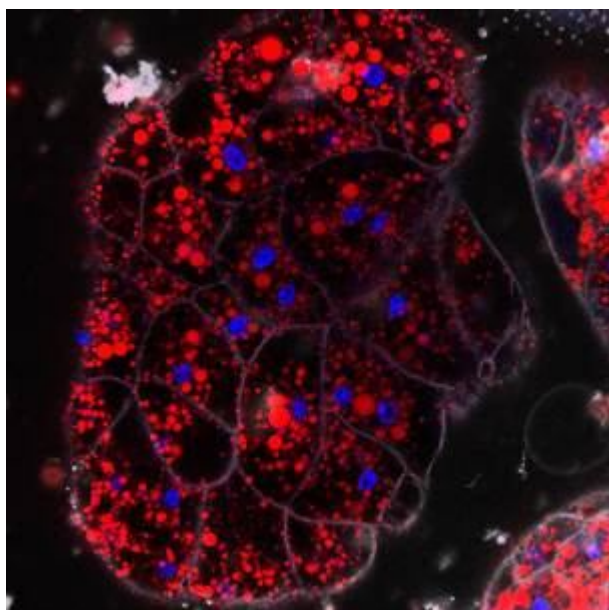
Jaskynné systémy zahŕňajú organizmy silne špecializované na extrémny spôsob života v tme. Pri výskume ich fosílnych foriem sme zistili, že evolúcia v jaskyniach sa riadi inými pravidlami ako v iných ekosystémoch, čo je spôsobené izoláciou a malými populáciami (živočíchov). Po vstupe živých organizmov do jaskýň nastáva búrlivý vývoj a rýchly vznik bizarných foriem života. Prekvapujúce je, že po pomerne krátkej dobe rozkvetu nastáva vymieranie, ktoré v minulosti postihlo úplne všetky jaskynné organizmy, takže dnes všetky takéto organizmy pochádzajú až z obdobia tret'ohôr (vzácne z doby do 66, ale prakticky všetky do 30 milión rokov) a drvivá väčšina je prekvapujúco veľmi mladá (!) - len do 3 milión rokov. Jedinú výnimku sme zdokumentovali na prípade jaskynného švába z druhohorného jantáru z Myanmaru (98 milión rokov). Okrem tohto prípadu jaskynné fauny zrejme postihlo rovnaké veľké vymieranie, ako vyhubilo dinosaurov. Ako je možné že toto vymieranie zasiahlo všetky jaskyne, z ktorých mnohé sú pred vonkajšími vplyvmi chránené, ostáva nevyriešenou záhadou.



1. SENDI, Hemen* - VRŠANSKÝ, Peter** - PODSTRELENÁ, Lenka - HINKELMAN, Jan - KÚDELOVÁ, Tatiana - KÚDELA, Matúš - VIDLIČKA, Ľubomír - REN, Xiaoyin - QUICKE, D.L.J. Nocticolid cockroaches are the only known dinosaur age cave survivors. In Gondwana Research, 2020, vol. 82, p. 288-298. (2019: 6.174 - IF, Q1 - JCR, 3.033 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1342-937X. Dostupné na: <https://doi.org/10.1016/j.gr.2020.01.002> - Typ: ADCA

2.) Vplyv vývinových podmienok na fyziológiu modelového organizmu *Drosophila*.

Aby sa organizmy vyrovnali s nepriaznivými environmentálnymi faktormi, vyvinuli sa u nich rozličné adaptívne fyziologické mechanizmy. Schopnosť tolerovať suboptimálne podmienky môže byť vo všeobecnosti zlepšená prostredníctvom aklimácie (aklimácia je definovaná ako fenotypová odpoveď na špecifický faktor/stresor (napr. teplota), zatiaľ čo aklimatizácia je odpoveď na viaceré faktory/stresory naraz (napr. teplota, vlhkosť a fotoperiód)). V našom výskume sme pomocou drozofily (*Drosophila melanogaster*) zisťovali, či podmienky počas vývinu produkujú fenotypy lepšie prispôsobené na dané podmienky aj v dospelosti. V prvej štúdii sme testovali efekt diéty počas vývinu na reprodukčnú schopnosť a množstvo tukových a glykogénových zásob u dospelých jedincov. Zistili sme, že jedince, ktoré sa vyvinuli na potrave, ktorá obsahovala málo kvasníc (zdroj proteínov) alebo veľa cukrov mali menej potomkov bez ohľadu na potravu v dospelosti. Na druhej strane, zvýšené množstvo energetických zásob u týchto jedincov by mohlo predstavovať adaptívny mechanizmus alebo sa jedná o dôsledok kompenzačného žrania. Naše výsledky naznačujú, že



pozorované rozdiely vo fyziológii dospelých jedincov spôsobené potravou počas vývinu, sú výsledkom účinku živín na vývin reprodukčných a metabolických orgánov a nie dôsledkom adaptívnych mechanizmov. V druhej práci, sme študovali ako teplotná aklimácia počas vývinu ovplyvňuje termálne reakčné normy pre tukové a glykogénové zásoby v dospelosti. Objavili sme, že aklimácia má významný účinok na množstvo energetických rezerv a na optimálnu teplotu pre ich hromadenie. Jedince vyvíjajúce sa pri nižšej teplote mali v dospelosti viac tukových a glykogénových zásob a nižšiu optimálnu teplotu pre ich akumuláciu ako jedince, ktoré boli počas vývinu vystavené vyšším teplotám. Pozorovaný jav môže mať významné dôsledky na prežívanie období s nedostatkom potravy, hlavne pri suboptimálnych teplotách.

Obr. Lipidové kvapôčky (červené) v tukovom telese drozofily.

1. KLEPSATEL, Peter** – KNOBLOCHOVÁ, Diana – GIRISH, Thirnahalli Nagaraj – DIRCKSEN, Heinrich – GÁLIKOVÁ, Martina*. The influence of developmental diet on reproduction and metabolism in *Drosophila*. In BMC Evolutionary Biology, 2020, vol. 20, art. no. 93, 15 pp. (2019: 3.058 – IF, Q2 – JCR, 1.531 – SJR, Q1 – SJR, karentované – CCC). (2020 – Current Contents). ISSN 1471-2148. Dostupné na: <https://doi.org/10.1186/s12862-020-01663-y> Typ: ADCA
2. KLEPSATEL, Peter** – GIRISH, Thirnahalli Nagaraj – GÁLIKOVÁ, Martina*. Acclimation temperature affects thermal reaction norms for energy reserves in *Drosophila*. In Scientific Reports, 2020, vol. 10, art. no. 21681. (2019: 3.998 – IF, Q1 – JCR, 1.341 – SJR, Q1 – SJR, karentované – CCC). (2020 – Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-020-78726-z> Typ: ADCA

2.3.2. Aplikačný typ

Komplexnosť a biodiverzita poľnohospodárskej krajiny v poslednom storočí výrazne poklesla. Mnoho prvkov tradičnej poľnohospodárskej krajiny, vrátane neproduktívnych plôch (medze, úhory, plochy s medziplodinami, živé ploty alebo remízy), radikálne ubudlo najmä intenzifikáciou

poľnohospodárstva. V práci sme sledovali význam neobhospodarovaných plôch v okolí stĺpov vysokého napätia (VN) pre štruktúru spoločenstiev drobných cicavcov poľnohospodárskej krajiny. Hoci sú jednotlivé plochy pod stĺpmi VN relatívne malé, celkovo ide vzhľadom na hustú sieť elektrizačnej prenosovej sústavy o významnú plochu. Zistili sme, že početnosť aj diverzita spoločenstiev drobných cicavcov bola v neproduktívnych plochách výrazne vyššia ako v okolitých poľnohospodárskych kultúrach a tieto plochy pre skúmané živočíchy predstavujú dôležité refúgiá. Práca potvrdzuje, že ekologický vplyv elektrizačnej prenosovej sústavy je komplexný, avšak dá sa cielene využívať pri ochrane biodiverzity poľnohospodárskej krajiny ako aj pri biologickej ochrane poľných kultúr.

1. ŠÁLEK, Martin** - VÁCLAV, Radovan* - SEDLÁČEK, František. Uncropped habitats under power pylons are overlooked refuges for small mammals in agricultural landscapes. In Agriculture, Ecosystems & Environment, 2020, vol. 290, art. no. 106777. (2019: 4.241 - IF, Q1 - JCR, 1.719 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0167-8809. Dostupné na: <https://doi.org/10.1016/j.agee.2019.106777> - Typ: ADCA

2.3.3. Medzinárodné vedecké projekty

Kliešte sú ektoparazity teplokrvných živočíchov vrátane človeka. Prostredníctvom svojich slín vpravujú do kože bioaktívne látky, ktoré menia obranné reakcie hostiteľov a napomáhajú prenosu patogénov, ale aj molekuly ktoré vyvolávajú resp. znásobujú alergické reakcie. Zamerali sme sa na dva aspekty.

1. Sledovali sme zmeny v zložení slín kliešťa *Ixodes ricinus* podmienené infekciou vírusom kliešťovej encefalitídy, ktoré pravdepodobne súvisia so zmenou obranných reakcií v koži hostiteľa v skorých fázach prenosu vírusu. Infikované kliešte v porovnaní s neinfikovanými vykazovali rozdiely v expresii viacerých génov pre tvorbu doteraz nekategorizovaných proteínov, proteáz, inhibítorov serínových proteáz typu Kunitz, cytotoxínov a lipokalínov (Hart et al. 2020).

2. Študovali sme vzťah medzi látkami v slinách *I. ricinus* ktoré sú počas cicania vpravené do kože hostiteľa a potravinovou alergiou na produkty z cicavcov, najmä červené mäso (tzv. alfa-gal syndróm). Podstatou tejto alergie je produkcia IgE protilátok voči sacharidu alfa-galaktóza (alfa-gal), ktorá sa nachádza v bunkách väčšiny cicavcov okrem primátov. Tvorba IgE protilátok proti alfa-gal sa však zistila u ľudí aj po uhryznutí kliešťami. Zistili sme, že IgE protilátky alergických pacientov reagujú s proteínmi z lariev aj dospelých kliešťov *I. ricinus*, a špecificky sa viažu na vitellogeníny v ich slinách, čo potvrdzuje spojitost medzi cicaním kliešťov a alfa-gal syndrómom (Apostolovic et al. 2020).



1. HART, C.E. - RIBEIRO, J.M.C - KAZIMÍROVÁ, M. - THANGAMANI, S. Tick-borne encephalitis virus infection alters the sialome of *Ixodes ricinus* ticks during the earliest stages of feeding. Frontiers in Cellular and Infection Microbiology 2020, vol. 10, art. no. 41. (2019: 4.123 - IF, Q2 - JCR, 1.626 - SJR, Q1 - SJR). <https://doi.org/10.3389/fcimb.2020.00041> Typ: ADCA
2. APOSTOLOVIC, D. - MIHAJLOVIC, J. - COMMINS, S. P. - WIJNVELD, M. - KAZIMÍROVÁ, M. - STARKHAMMAR, M. - STOCKINGER, H. - PLATTS-MILLS, T.A.E. - CIRKOVIC VELICKOVIC, T. - HAMSTEN, C. - VAN HAGE, M. Allergenomics of the tick *Ixodes ricinus* reveals important α Gal-carrying IgE-binding proteins in red meat allergy. Allergy: European journal of allergy and clinical immunology, 2020, vol. 75, no. 1, p. 217-220. (2019: 8.706 - IF, Q1 - JCR, 3.061 - SJR, Q1 - SJR). <https://doi.org/10.1111/all.13978> Typ: ADCA

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

| PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ | Počet v r. 2020/ doplňky z r. 2019 |
|--|---|
| 1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB) | 2 / 0 |
| 2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA) | 1 / 0 |
| 3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB) | 0 / 0 |
| 4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA) | 0 / 0 |
| 5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD) | 0 / 0 |
| 6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC) | 0 / 0 |
| 7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD) | 0 / 0 |
| 8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC) | 0 / 0 |
| 9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB) | 39 / 2 |
| 10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB) | 4 / 2 |
| 11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB) | 10 / 1 |
| 12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB) | 2 / 0 |
| 13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA) | 0 / 0 |
| 14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA) | 1 / 0 |
| 15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD) | 3 / 0 |
| 16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC) | 0 / 0 |
| 17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS | 1 |
| 18. Ostatné vydané periodiká | 0 |
| 19. Zostavovateľské práce knižného charakteru (FAI) | 1 / 0 |
| 20. Preklady vedeckých a odborných textov (EAJ) | 0 / 0 |
| 21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB) | 0 / 0 |
| 22. Recenzie v časopisoch a zborníkoch (EDI) | 0 / 0 |

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

| Kvartil vedeckého časopisu | Q1 | Q2 | Q3 | Q4 | Spolu |
|--|--------|--------|-------|-------|--------|
| Podľa IF z r. 2019 (zdroj JCR) <i>Počet článkov / doplnky</i> | 8 / 0 | 20 / 0 | 6 / 1 | 8 / 1 | 42 / 2 |
| Podľa SJR z r. 2019 (zdroj Scimago) <i>Počet článkov / doplnky</i> | 21 / 0 | 15 / 3 | 5 / 0 | 2 / 1 | 43 / 4 |

Tabuľka 2g Ohlasy

| OHLASY | Počet v r. 2019/ doplnky z r. 2018 |
|--|---------------------------------------|
| Citácie vo WOS (1.1, 2.1) | 1410 / 156 |
| Citácie v SCOPUS (1.2, 2.2) | 193 / 47 |
| Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2) | 15 / 0 |
| Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1) | 134 / 6 |
| Recenzie na práce autorov z organizácie (5, 6, 7, 8) | 0 / 0 |

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2h Vedecké podujatia

| | |
|--|--|
| Prednášky a vývesky na medzinárodných vedeckých podujatiach | |
| Prednášky a vývesky na národných vedeckých podujatiach | |

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2020

2.7.1. Vynálezy, na ktoré bol v roku 2020 udelený patent

a) na Slovensku

b) v zahraničí

Názov vynálezu: Novel thrombin inhibitors

Číslo patentu: EP3310807

Dátum priority: 18.6.2015

Majiteľ / spolumajiteľ:

Pôvodcovia vynálezu: Kazimírová Mária, Roller Ladislav, Janaki Krishnamoorthy, Cho Yeow Koh, R. Manjunatha Kini

2.7.2. Vynálezy prihlásené v roku 2020

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2020

b) udelené v roku 2020

2.7.4. Realizované vynálezy

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

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

Finančný prínos pre organizáciu SAV v roku 2020 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

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

Tabuľka 2i Experti hodnotiaci národné projekty

| Meno pracovníka | Typ programu/projektu/výzvy | Počet hodnotených projektov |
|------------------|-----------------------------|-----------------------------|
| Kazimírová Mária | VEGA | 2 |
| Roller Ladislav | VEGA 2021 | 4 |
| Vidlička Ľubomír | KEGA | 1 |
| | VEGA | 3 |

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 4

2.10. Recenzovanie publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet recenzovaných monografií, článkov, zborníkov

| Meno pracovníka | Knížné monografie | | Príspevky v časopisoch | | | Zborníky | |
|-------------------|-------------------|-----------------|------------------------|-----------------|-----------|----------|-----------------|
| | Domáce | Zahra- ničné | WoS, SCOPUS | Iné databázy | Ostatné | Domáce | Zahra- ničné |
| Derdáková Markéta | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| Didyk Yuliya | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Gáliková Martina | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Kalúz Stanislav | 0 | 2 | 3 | 0 | 0 | 0 | 0 |
| Kazimírová Mária | 0 | 0 | 28 | 7 | 0 | 0 | 0 |
| Klepsatel Peter | 0 | 0 | 8 | 0 | 0 | 0 | 0 |
| Kokavec Igor | 0 | 0 | 2 | 0 | 1 | 0 | 0 |
| Mangová Barbara | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Navara Tomáš | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Roller Ladislav | 2 | 0 | 1 | 2 | 0 | 0 | 0 |
| Stanko Michal | 1 | 0 | 5 | 2 | 2 | 0 | 0 |
| Šustek Zbyšek | 0 | 0 | 3 | 1 | 0 | 0 | 1 |
| Vidlička Ľubomír | 0 | 0 | 5 | 0 | 11 | 0 | 0 |
| Žitňan Dušan | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spolu | 3 | 2 | 62 | 14 | 16 | 1 | 1 |

2.11. Iné informácie k vedeckej činnosti.

Rok 2020 bol pre Ústav zoológie SAV opäť úspešný v publikačnej oblasti. Pracovníci ÚZ SAV boli autormi a spoluautormi 1 zahraničnej a 2 domácich monografií, článkov publikovaných v Allergy : European journal of allergy and clinical immunology (IF 8,706), Gondwana Research (IF 6,174), Scientific Data (IF 5,541), Agriculture, Ecosystem & Environment (IF 4,241), Microorganisms (IF=4,152) a Scientific Reports (IF 3,998). Celkovo sme publikovali takmer 50 článkov v kvalitných impaktovaných časopisov. Vysoké nároky na kvalitu výsledkov a publikačných výstupov sú trvalou prioritou ústavu.

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2020

| Forma | Počet k 31.12.2020 | | | | Počet doktorandov po doktorandskej skúške | | Počet ukončených doktorantúr v r. 2020 | | | | | |
|-----------------------|--------------------|---|--------------------|---|---|---|--|---|------------------------------|---|---------------------|---|
| | | | | | | | Ukončenie z dôvodov | | | | | |
| | celkový počet | | z toho novoprijatí | | | | | | ukončenie úspešnou obhajobou | | predčasné ukončenie | |
| | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| Denná zo zdrojov SAV | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Denná z iných zdrojov | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Externá | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spolu | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Súhrn | 9 | | 0 | | 0 | | 0 | | 0 | | 0 | |

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.

Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v „Súhrn“ je súčtom dvoch buniek nad ňou. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2020 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.

3.2. Zmena formy doktorandského štúdia

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

| Pôvodná forma | Denná z prostriedkov SAV | Denná z prostriedkov SAV | Denná z iných zdrojov | Denná z iných zdrojov | Externá | Externá |
|---------------|--------------------------|--------------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| Nová forma | Denná z iných zdrojov | Externá | Denná z prostriedkov SAV | Externá | Denná z prostriedkov SAV | Denná z iných zdrojov |
| Počet | 0 | 1 | 0 | 0 | 0 | 0 |

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou

| Meno doktoranda | Forma DŠ | Mesiac, rok nástupu na DŠ | Mesiac, rok obhajoby | Číslo a názov študijného odboru | Meno a organizácia školiteľa | Fakulta udeľujúca vedeckú hodnotu |
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2020 úspešnou obhajobou v nadštandardnej dĺžke štúdia

| Meno doktoranda | Forma DŠ | Mesiac, rok nástupu na DŠ | Mesiac, rok obhajoby | Číslo a názov študijného odboru | Meno a organizácia školiteľa | Fakulta udeľujúca vedeckú hodnotu |
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|
|-----------------|----------|---------------------------|----------------------|---------------------------------|------------------------------|-----------------------------------|

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

| Počet absolventov PhD. štúdia v roku 2020 (obhajoba leto 2020) | z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy) | z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu | z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu | z toho koľkí boli nejaký čas nezamestnaní |
|--|---|--|--|---|
| 0 | 0 | 0 | 0 | 0 |

Zoznam interných a externých doktorandov je uvedený v prílohe A.

3.6. Medzinárodné doktorandské štúdium

Tabuľka 3f Počet študentov v medzinárodných programoch doktorandského štúdia

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

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

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

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

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

| Názov študijného odboru (ŠO) | Číslo ŠO | Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta) |
|------------------------------|----------|---|
| molekulárna biológia | 4.2.3 | Prírodovedecká fakulta UK |
| zoológia | 4.2.5 | Prírodovedecká fakulta UK |

Tabuľka 3h Účasť na pedagogickom procese

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

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2020

| PEDAGOGICKÁ ČINNOSŤ | Prednášky | | Cvičenia a semináre | |
|--|-----------|-------------|---------------------|-------------|
| | doma | v zahraničí | doma | v zahraničí |
| Počet prednášateľov alebo vedúcich cvičení | 5 | 0 | 1 | 0 |
| Celkový počet hodín v r. 2020 | 33 | 0 | 21 | 0 |

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

Tabuľka 3j Aktivity pracovníkov na VŠ

| | | |
|----|---|----|
| 1. | Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác | 15 |
| 2. | Počet vedených alebo konzultovaných diplomových a bakalárskych prác | 22 |
| 3. | Počet pracovníkov, ktorí pôsobili ako škoolitelia doktorandov (PhD.) | 6 |
| 4. | Počet školených doktorandov (aj pre iné inštitúcie) | 9 |
| 5. | Počet oponovaných dizertačných a habilitačných prác | 15 |
| 6. | Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce | 8 |
| 7. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác | 0 |
| 8. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác | 6 |
| 9. | Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách | 1 |

3.9. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2020 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 2021 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Spolu | | | |

4.2. Členstvo a funkcie v medzinárodných orgánoch

4.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétach SR

RNDr. Alžbeta Darolová, CSc.

Česká ornitologická spoločnosť (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

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

MVDr. Yuliya Didyk, PhD.

Member of Ukrainian Entomological Society (funkcia: member)

Ukrainian Scientific Society of Parasitologists (funkcia: member)

Ing. Zbyšek Šustek, CSc.

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

doc. RNDr. Ľubomír Vidlička, CSc.

Deutsche Gesellschaft für Orthopterologie (funkcia: člen)

4.3. 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 |
|------------------|--|-----------------------------|
| Kazimírová Mária | Austrian Science Fund | 1 |
| Klepsatel Peter | United States-Israel Binational Science Foundation | 1 |

4.4. Najvýznamnejšie prínosy MVTS ústavu vyplývajúce z mobility a riešenia medzinárodných projektov a iné informácie k medzinárodnej vedeckej spolupráci Medzinárodná spolupráca so Stockholm Univerzity, Sweden (P. Klepsatel, M. Gáliková a Heinrich Dirksen) v oblasti výskumu tukového metabolizmu *D. melanogaster*:

1. KLEPSATEL, Peter - KNOBLOCHOVÁ, Diana - GIRISH, Thirnahalli Nagaraj - DIRCKSEN, Heinrich - GÁLIKOVÁ, Martina. The influence of developmental diet on reproduction and metabolism in *Drosophila*. In *BMC Evolutionary Biology*, 2020, vol. 20, art. no. 93, 15 pp. (2019: 3.058 - IF, Q2 - JCR, 1.531 - SJR, Q1 - SJR). ISSN 1471-2148. Dostupné na: <https://doi.org/10.1186/s12862-020-01663-y> Typ: ADCA

Medzinárodná spolupráca so Sri Sathya Sai Institute of Higher Learning, India (P. Klepsatel, M. Gáliková a Thirnahalli Nagaraj Girish) v oblasti výskumu tukového metabolizmu *D. melanogaster*:

1. KLEPSATEL, Peter - KNOBLOCHOVÁ, Diana - GIRISH, Thirnahalli Nagaraj - DIRCKSEN, Heinrich - GÁLIKOVÁ, Martina. The influence of developmental diet on reproduction and metabolism in *Drosophila*. In *BMC Evolutionary Biology*, 2020, vol. 20, art. no. 93, 15 pp. (2019: 3.058 - IF, Q2 - JCR, 1.531 - SJR, Q1 - SJR). ISSN 1471-2148. Dostupné na: <https://doi.org/10.1186/s12862-020-01663-y> Typ: ADCA
2. KLEPSATEL, Peter - GIRISH, Thirnahalli Nagaraj - GÁLIKOVÁ, Martina. Acclimation temperature affects thermal reaction norms for energy reserves in *Drosophila*. In *Scientific Reports*, 2020, vol. 10, art. no. 21681, 11 pp. (2019: 3.998 - IF, Q1 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-020-78726-z> Typ: ADCA

V rámci medzinárodného projektu „Evolúcia a ochrana veľkoplošných primárnych ekosystémov“ (AMBA) boli dosiahnuté tieto výsledky: Významne sme prispeli k ochrane UNESCO BR Sumaco v Ekvádore - za účelom ochrany prírody boli na základe nášho príspevku (Hinkelman et al. 2020) zakúpené ďalšie pozemky. Článok bol komentovaný v časopise New Scientist. Publikovali sme tiež 1 vedeckú monografiu (Springer Nature) a 4 CC práce (1 Q1). Hlavným výsledkom roku 2020 bolo objavenie sociálnej štruktúry švábov v skupine Melyroidea (Hinkelman et al. 2020). Článok sa stal základom pre ochranárske aktivity. Dôležitým výsledkom bol aj syntetický výskum jaskynnej bioty, ktorý odhaľuje rôzne princípy vývoja v jaskyniach a v rámci výskumu bol popísaný najstarší jaskynný organizmus (Sendi et al. 2020a, JCR 1). Príspevok bol publikovaný v najlepšom geologickom časopise a komentovaný v Nature (a na mnohých ďalších miestach). Rovnako dôležitý bol aj ďalší článok (Hinkelman a Vršanská 2020, Q2) o objavení starobylých mikroorganizmov spojených s trávením dávneho hmyzu, komentovaný v časopise Science. Iná práca (Sendi a kol. 2020b, Q4) poskytuje nový pohľad na vývoj prvotných kvetov a na opelenie. V ďalšom príspevku (Koubová a Mlynský 2020) bol podrobne a ako nikdy predtým detailne opísaný a vyobrazený hmyz z jantáru žijúci v ére dinosaurov.

1. Vršanský, P. 2020. *Cockraoches from the Jurassic sediments of the Bakhar Formation*. Springer Nature, Cham. 99 pp.
2. Sendi, H., Vršanský, P., Podstrelná, L., Hinkelman, J., Kúdelová, T., Kúdela, M., Vidlička, Ľ., Ren, X., Quicke, D.L.J. 2020a. Nocticolid cockroaches are the only known dinosaur age cave survivors. *Gondwana Research* 82: 288-298. DOI: 10.1016/j.gr.2020.01.002
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6. Koubová, I., Mlynský, T. 2020. Two new mid-Cretaceous dictyopterans (Umenocoleidae: Vitisminae) from northern Myanmar exemplify taphonomic bias. *Amba Projekty* 10(1): 1-16.

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

5. Koncepcia dlhodobého rozvoja organizácie

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

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

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

1. Zvyšovanie kvality výstupov výskumu

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

2. Zvyšovanie kvality doktorandského štúdia

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

3. Kariérny rast postdoktorandov a výskumníkov

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

4. Zvyšovanie úspešnosti SAV v programoch ERA osobitne Horizont 2020

V minulosti boli pracovníci ÚZ SAV veľmi úspešní v získavaní zahraničných projektov z EU (3, 4, 5, 6. a 7. RP EU, Alpe 2, MOLAR, EMERGE, STAR, ICCTD3, EDEN, EDENext, Interreg, LIFE) aj USA (tri granty z National Institutes of Health). V súčasnosti naši pracovníci riešia medzinárodné projekty UNESCO a LIFE. Tiež sme sa zapojili do dvoch konzorcií na Štrukturálne fondy, z

ktorých bol jeden schválený. Tiež bol schválený jeden projekt LIFE, na ktorom sa podieľa aj Ústav zoológie SAV. V budúcnosti sa budeme snažiť podávať ďalšie medzinárodné projekty v programoch EU.

5. Projekty VEGA a APVV

ÚZ SAV je veľmi úspešný v získavaní grantov z VEGA a APVV. V súčasnosti je pracovisko hlavným riešiteľom 10 VEGA projektov a 3 spoluriešiteľských projektov. Z APVV sme získali podporu 4 projektov ako hlavných riešiteľov a 1 projektu ako spoluriešiteľov. Riešiteľská kapacita na projektoch z obidvoch agentúr je takto naplnená na 100%. Vzhľadom na to, že základnou povinnosťou každého vedeckého pracovníka je viesť alebo podieľať sa na riešení projektov financovaných predovšetkým z domácich zdrojov (VEGA, APVV) nepotrebujeme vypracovať strategický plán na ich získavanie.

6. Manažment ústavu

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

7. Nakladanie s duševným vlastníctvom

Patent podaný v roku 2015 pod číslom EP3310807 s názvom „Novel thrombin inhibitors“ bol zaregistrovaný 13.5.2020 aj v rámci Európskej únie (pre krajiny AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR). Pôvodcami projektu sú aj dvaja pracovníci Ústavu zoológie SAV: Kazimírová Mária, Roller Ladislav. Spoluvlastníkom patentu je Ústav zoológie SAV.

8. Financovanie a riadenie výskumných infraštruktúr

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

5.3. Aktualizácia Akčného plánu organizácie v roku 2020

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

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

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Oblasť spolupráce: prednášky, výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie:

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

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

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

6.1.2. Spoločné pracoviská s inými organizáciami SAV

Názov organizácie: Biomedicínske centrum SAV

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

Názov organizácie: Centrum biológie rastlín a biodiverzity SAV

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

Názov organizácie: Parazitologický ústav SAV

Oblasť spolupráce: Výskum

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie:

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

6.2. Spoločné pracoviská organizácie s inými inštitúciami mimo SAV a VŠ

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v praxi

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

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

Zadávateľ výskumného kontraktu: Prírodovedecká fakulta Univerzity Komenského v Bratislave

Začiatok spolupráce: 2015

Ukončenie spolupráce: 2020

Finančný prínos pre organizáciu (€): 3960

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

1. Posúdenie vplyvu revitalizačných opatrení na základe štruktúry spoločenstiev bentických bezstavovcov pre projekt zameraný na obnovu a manažment dunajských lužných biotopov. 2. Odporúčania pre manažment trávnatých plôch s ohľadom na faunu bezstavovcov. Návrhy opatrení na podporu biodiverzity bezstavovcov (podpora hniezdnych možností pre samotárske včely a kutavky, zimovísk a úkrytov pre hmyz a pod.) 3. V rámci výskumu kliešťami prenášaných patogénov pracovníci ústavu ponúkajú službu pre verejnosť, ktorá spočíva v diagnostike pricicaných kliešťov na prítomnosť patogénov, konkrétne: borélií, anaplaziem, rickettsií a babézií.

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

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

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

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

8.2. Expertízna činnosť a iné služby pre štátnu správu a samosprávy

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

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

| Meno pracovníka | Názov orgánu | Funkcia |
|-----------------|--------------|---------|
|-----------------|--------------|---------|

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

| Typ | Počet | Typ | Počet | Typ | Počet |
|------------------|-------|----------------------|-------|--------------------|-------|
| prednášky/besedy | 4 | tlač | 10 | TV | 6 |
| rozhlas | 6 | internet | 7 | exkurzie | 3 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 1 |
| iné | 0 | | | | |

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

| Názov podujatia | Domáca/ medzinárodná | Miesto | Dátum konania | Počet účastníkov |
|-----------------|-------------------------|--------|---------------|---------------------|
|-----------------|-------------------------|--------|---------------|---------------------|

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9c Programové a organizačné výbory národných konferencií

| Meno pracovníka | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Spolu | | | |

9.5. Členstvo v redakčných radách časopisov

RNDr. Alžbeta Darolová, CSc.

Tichodroma (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Ticks and Tick Borne Diseases (funkcia: section editor)

RNDr. Stanislav Kalúz, CSc.

Entomofauna Carpathica (funkcia: člen)

Folia Faunistica Slovaca (funkcia: člen)

RNDr. Mária Kazimírová, CSc.

Biologia (funkcia: managing editor)

Pathogens (funkcia: člen redakčnej rady)

Persian Journal of Acarology (funkcia: section editor)

RNDr. Tomáš Navara, PhD.

Zborník SNM v Martine - Kmetianum (funkcia: člen)

prof. PaedDr. Pavol Prokop, DrSc.

Biologia (funkcia: associate editor)
Educational Sciences: Theory & Practise (funkcia: člen)
Eurasia Journal of Mathematics, Science and Technology Education (funkcia: člen)
European Journal of Ecology (funkcia: člen)
Journal of Baltic Science Education (funkcia: člen)
The Journal of General Psychology (funkcia: člen)

Ing. Ladislav Roller, PhD.

Entomofauna Carpathica (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Entomofauna Carpathica (funkcia: člen redakčnej rady)

Ing. Zbyšek Šustek, CSc.

Biologia (funkcia: associate editor)
Elytron (funkcia: člen)
Oltenia, Studii și Comunicări, Științele Naturii (funkcia: člen)

Mgr. Radovan Václav, PhD.

Biologia (funkcia: člen Editorial Board)

doc. RNDr. Ľubomír Vidlička, CSc.

Acta Rerum Naturalium Musei Nationalis Slovaci (funkcia: člen)
Annotationes zoologicae et botanicae Musei Slovaci (funkcia: člen)
Entomofauna Carpathica (funkcia: člen)

RNDr. Dušan Žitňan, DrSc.

General and Comparative Endocrinology (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Alžbeta Darolová, CSc.

Slovenská ornitologická spoločnosť/Birdlife (funkcia: člen)

MVDr. Markéta Derdáková, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

MVDr. Yuliya Didyk, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Michal Chvostáč, PhD.

Slovenská parazitologická spoločnosť (funkcia: člen)

RNDr. Stanislav Kalúz, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Mária Kazimírová, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

Mgr. Igor Kokavec, PhD.

Slovenská limnologická spoločnosť pri SAV (funkcia: člen)

RNDr. Ján Krištofik, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Barbara Mangová, PhD.

Slovenská arachnologická spoločnosť - SARAS (funkcia: člen)

Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

RNDr. Tomáš Navara, PhD.

Slovenská limnologická spoločnosť (funkcia: člen)

Ing. Ladislav Roller, PhD.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

Mgr. Veronika Rusňáková Taragel'ová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen výboru)

Mgr. Diana Selyemová, PhD.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen)

RNDr. Mirko Slovák, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Michal Stanko, DrSc.

Slovenská parazitologická spoločnosť pri SAV (funkcia: člen výboru)

Slovenská zoologická spoločnosť pri SAV (funkcia: člen)

RNDr. Peter Takáč, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

doc. RNDr. Ľubomír Vidlička, CSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen výboru)

RNDr. Dušan Žitňan, DrSc.

Slovenská entomologická spoločnosť pri SAV (funkcia: člen)

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

V rámci verejnosťou veľmi dobre prijatej a medzinárodne uznávanej série Atlasov vydavateľstva Academia (Praha) vyšiel v roku 2020 ďalší diel s názvom „Blanokřídli České a Slovenské republiky II.“. Publikácia zahŕňa informácie o 795 druhoch hrubopásych blanokřídlcov (Symphyta, Hymenoptera), ktoré sa vyskytujú v strednej Európe. Okrem vedeckého prínosu (identifikačné kľúče, nové údaje o výskyte a biológii druhov, a unikátne opisy a ilustrácie lariev) prináša originálne farebné vyobrazenia väčšiny spracovaných druhov (675 rôznych dospelcov, 447 lariev a 56 mín a hálok). Ide o vôbec prvý ucelený prehľad tejto skupiny hmyzu čím predstavuje unikát nielen v rámci domácej, ale aj svetovej populárnej náučnej literatúry. Autormi sú štyria poprední entomológovia z Českej republiky a tiež Ing. Ladislav Roller, PhD. z Ústavu zoológie SAV, ako celosvetovo uznávaný odborník na danú skupinu.

MACEK, J.** - ROLLER, Ladislav* - BENEŠ, Karel - HOLÝ, Kamil - HOLUŠA, J. Blanokřídli České a Slovenské republiky II: Širopasí. 1. vydanie. Praha : Academia, 2020. 672 str. - Typ: AAA

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

| | | |
|--|---|-------|
| Knižničné jednotky spolu | | 14264 |
| z toho | knihy a zviazané periodiká | 13957 |
| | audiovizuálne dokumenty | 6 |
| | elektronické dokumenty (vrátane digitálnych) | 44 |
| | mikroformy | 0 |
| | iné špeciálne dokumenty - dizertácie, výskumné správy | 1901 |
| | Rukopisy, vzácne tlače | 0 |
| Počet titulov dochádzajúcich periodík | | 23 |
| z toho zahraničné periodiká | | 21 |
| Ročný prírastok knižničných jednotiek | | 0 |
| v tom | kúpou | 0 |
| | darom | 0 |
| | výmenou | 0 |
| | bezodplatným prevodom | 0 |
| | náhradou | 0 |
| Úbytky knižničných jednotiek | | 0 |
| Knižničné jednotky spracované automatizovane | | 13957 |

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

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

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

| | | |
|-----------------------------------|----------------------------------|---|
| Výpožičky spolu (riadok 1) | | 0 |
| v tom z r. 1 | prezenčné výpožičky | 0 |
| | absenčné výpožičky | 0 |
| v tom z r. 1 | odborná literatúra pre dospelých | 0 |
| | výpožičky periodík | 0 |
| MVS iným knižniciam | | 0 |
| MVS z iných knižníc | | 0 |
| MMVS iným knižniciam | | 0 |
| MMVS z iných knižníc | | 0 |
| Počet vypracovaných bibliografií | | 6 |

| | |
|-----------------------------|---|
| Počet vypracovaných rešerší | 0 |
|-----------------------------|---|

10.3. Používatelia

Tabuľka 10c Používatelia

| | |
|--|----|
| Registrovaní používatelia | 36 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 0 |

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

doc. RNDr. Michal Stanko, DrSc.

- VK SAV pre biologicko-ekologické vedy (člen)

11.4. Členstvo v komisiách SAV

Ing. Ladislav Roller, PhD.

- Komisia SAV pre zahraničné styky (člen)

Mgr. Peter Vršanský, PhD.

- Komisia SAV pre vyhodnocovanie medzinárodných projektov (člen komisie)

RNDr. Dušan Žitňan, DrSc.

- Komisia SAV pre posudzovanie vedeckej kvalifikácie zamestnancov (člen)

11.5. Členstvo v orgánoch VEGA

Ing. Ladislav Roller, PhD.

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

doc. RNDr. Michal Stanko, DrSc.

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

doc. RNDr. Ľubomír Vidlička, CSc.

- Komisia č. 4 pre biologické vedy (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2020 v €)

| Typ organizácie (PO) | | Zdroje, z ktorých sa kryli jednotlivé výdavky | | | |
|---|-----------|---|-----------------------------|----------------|-------------------------|
| Výdavky | Spolu | kapitola SAV (111) | iné štátne a verejné zdroje | ostatné zdroje | % krytia z kapitoly SAV |
| 1. Bežné výdavky | 1 435 919 | 1 211 434 | 217 973 | 6 512 | |
| z toho: mzdy (610) | 782 622 | 729 094 | 53 300 | 228 | |
| vedecká výchova štipendiá (640) | 80 142 | 80 142 | | | |
| poistné a príspevok do poisťovní (620) | 272 165 | 251 434 | 18 648 | 2 083 | |
| tovary a služby (630) | 255 760 | 150 764 | 100 795 | 4 201 | |
| transfery partnerom projektov (640) | 45 230 | | 45 230 | | |
| 2. Kapitálové výdavky | 14 340 | | | 14 340 | |
| z toho: obstarávanie kapitálových aktív | 14 340 | | | 14 340 | |
| kapitálové transfery | | | | | |

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2020 v €)

| Typ organizácie (PO) | | Z toho kategórie | | | |
|---|-----------|-------------------|----------------------|-------------------------------------|---|
| Zdroje | Spolu | Kapitálové zdroje | zdroje na mzdy (610) | zdroje na odvody do poisťovní (620) | zdroje na transfery partnerom projektov |
| 1. kapitola SAV (111) | 1 212 338 | | 729 094 | 251 434 | |
| z toho: VEGA | 74 437 | | | | |
| MVTS výskumné projekty | 24 000 | | | | |
| MVTS podpora | 3 440 | | | | |
| SASPRO/MOREPRO | | | | | |
| Vydávanie časopisov | 5 166 | | | | |
| Vedecká výchova (štipendiá) | 80 142 | | | | |
| OTAS (630) | | | | | |
| 2. ŠF EÚ vr. fin. zo ŠR | | | | | |
| 3. medzinárodné grantové projekty | | | | | |
| z toho: H2020 | | | | | |
| 4. iné štátne a verejné zdroje (spolu) | 217 973 | | | | |
| z toho: APVV | 217 973 | | 53 300 | 18 648 | 45 230 |
| podpora z kapitoly MŠVVaŠ SR (stimuly) | | | | | |
| 5. ostatné zdroje | 17 026 | | 228 | 2 083 | |
| z toho: príjmy z prenájmu | | | | | |
| príjmy z podnikateľskej činnosti | | | | | |
| príjmy z expertnej činnosti a služieb | | | | | |

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2020

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Slovák Mirko

Literárny fond, Prémia za vedeckú a odbornú literatúru za rok 2019 v kategórii prírodné a matematické vedy

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru

Opis: Cena udelená za knihu "História výskumov kliešťov na území Česka a Slovenska do roku 2000"

Stanko Michal

Literárny fond, Prémia za vedeckú a odbornú literatúru za rok 2019 v kategórii prírodné a matematické vedy

Oceňovateľ: Literárny fond, Sekcia pre vedeckú a odbornú literatúru

Opis: Cena udelená za knihu "História výskumov kliešťov na území Česka a Slovenska do roku 2000"

15.1.2. Iné domáce ocenenia

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)

Ústav zoológie SAV poskytol v zmysle § 14 Zákona o slobode informácií informácie o spolupráci s čínskymi vedeckými inštitúciami Občianskemu združeniu Central European Institute of Asian Studies, so sídlom Bratislave.

17. Problémy a podnety pre činnosť SAV

Správu o činnosti organizácie SAV spracoval(i):

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

Schválila vedecká rada organizácie SAV dňa 26.1.2021

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
RNDr. Dušan Žitňan, DrSc.

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

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2020****Zoznam zamestnancov podľa štruktúry**

| | Meno s titulmi | Úväzok (v %) | Ročný prepočítaný úväzok |
|--|--|-------------------------|-------------------------------------|
| Vedúci vedeckí pracovníci DrSc. | | | |
| 1. | Prof. Oto Majzlan, CSc. | 10 | 0.10 |
| 2. | prof. PaedDr. Pavol Prokop, DrSc. | 50 | 0.57 |
| 3. | doc. RNDr. Michal Stanko, DrSc. | 30 | 0.30 |
| 4. | RNDr. Dušan Žitňan, DrSc. | 100 | 1.00 |
| Samostatní vedeckí pracovníci | | | |
| 1. | RNDr. Alžbeta Darolová, CSc. | 100 | 1.00 |
| 2. | MVDr. Markéta Derdáková, PhD. | 50 | 0.50 |
| 3. | Mgr. Martina Gáliková, PhD. | 100 | 0.60 |
| 4. | Ing. Ladislav Hamerlík, PhD. | 20 | 0.15 |
| 5. | RNDr. Stanislav Kalúz, CSc. | 20 | 0.32 |
| 6. | RNDr. Mária Kazimírová, CSc. | 100 | 1.00 |
| 7. | Mgr. Peter Klepsatel, PhD | 100 | 1.00 |
| 8. | RNDr. Juraj Koči, PhD. | 100 | 1.00 |
| 9. | Mgr. Jana Kráľovičová, PhD. | 50 | 0.16 |
| 10. | RNDr. Ján Krištofík, CSc. | 50 | 0.57 |
| 11. | RNDr. Peter Mašán, PhD. | 100 | 1.00 |
| 12. | Mgr. Veronika Michalková, PhD. | 100 | 0.33 |
| 13. | Ing. Ladislav Roller, PhD. | 100 | 1.00 |
| 14. | Mgr. Veronika Rusňáková Taragel'ová, PhD. | 30 | 0.41 |
| 15. | RNDr. Mirko Slovák, CSc. | 60 | 0.66 |
| 16. | Ing. Zbyšek Šustek, CSc. | 50 | 0.50 |
| 17. | RNDr. Peter Takáč, CSc. | 50 | 0.50 |
| 18. | Mgr. Radovan Václav, PhD. | 100 | 1.00 |
| 19. | doc. RNDr. Ľubomír Vidlička, CSc. | 100 | 1.00 |
| 20. | Mgr. Peter Vršanský, PhD. | 40 | 0.49 |
| Vedeckí pracovníci | | | |
| 1. | Mgr. Ivana Daubnerová, PhD. | 100 | 1.00 |
| 2. | MVDr. Yuliya Didyk, PhD. | 100 | 1.00 |

| | | | |
|--|------------------------------|-----|------|
| 3. | Mgr. Michal Chvostáč, PhD. | 100 | 1.00 |
| 4. | Mgr. Igor Kokavec, PhD. | 100 | 1.00 |
| 5. | Mgr. Pavol Littera, PhD. | 50 | 0.45 |
| 6. | Mgr. Barbara Mangová, PhD. | 100 | 1.00 |
| 7. | RNDr. Tomáš Navara, PhD. | 100 | 1.00 |
| 8. | Ing. Tomáš Olšovský, PhD. | 50 | 0.45 |
| 9. | Mgr. Emanuel Procházka, PhD. | 100 | 1.00 |
| 10. | Mgr. Diana Selyemová, PhD. | 100 | 1.00 |
| 11. | Mgr. Marek Semelbauer, PhD. | 100 | 1.00 |
| 12. | Mgr. Mário Šereš, PhD. | 25 | 0.10 |
| Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci) | | | |
| 1. | Mgr. Zuzana Čužiová | 50 | 0.50 |
| 2. | Mgr. Ján Kočišek | 10 | 0.24 |
| 3. | Ing. Veronika Machová | 100 | 0.33 |
| 4. | Mgr. Lucia Pavlíková, PhD. | 25 | 0.10 |
| Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci) | | | |
| 1. | Ing. Martin Česánek | 100 | 0.33 |
| 2. | Mgr. Dagmar Práznovská | 100 | 1.00 |
| 3. | Ing. Danka Sitarčíková | 130 | 1.30 |
| Odborní pracovníci ÚSV | | | |
| 1. | Alexander Baranovič | 150 | 1.50 |
| 2. | Lýdia Drinková | 100 | 1.00 |
| 3. | Daniel Kosa | 100 | 1.00 |
| 4. | Jana Kušnírová | 100 | 1.00 |
| 5. | Eva Vráblová | 100 | 1.00 |
| Ostatní pracovníci | | | |
| 1. | Karol Bucsek | 100 | 1.00 |
| 2. | Zuzana Pelikánová | 100 | 1.00 |

Zoznam zamestnancov, ktorí odišli v priebehu roka

| | Meno s titulmi | Dátum odchodu | Ročný prepočítaný úväzok |
|---------------------------|----------------------------|----------------------|---------------------------------|
| Vedeckí pracovníci | | | |
| 1. | Mgr. David Wildridge, PhD. | 31.5.2020 | 1.00 |

Zoznam doktorandov

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

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

| | Meno s titulmi | Dátum obhajoby | Dátum prijatia | Úväzok (v %) |
|--|----------------|----------------|----------------|--------------|
|--|----------------|----------------|----------------|--------------|

Zoznam emeritných vedeckých zamestnancov

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

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: Medziakademická dohoda (MAD)

1.) Optimalizácia in vitro systému kŕmenia pre chov a infikovanie kliešťov (Ixodidae) *(Optimization of in vitro feeding systems for rearing and infecting ixodid ticks)*

| | |
|---|---|
| Zodpovedný riešiteľ: | Mária Kazimírová |
| Trvanie projektu: | 1.1.2020 / 31.12.2021 |
| Evidenčné číslo projektu: | Projekt DAAD |
| Organizácia je koordinátorom projektu: | nie |
| Koordinátor: | Friedrich Loeffler Institut, FLI Riems, Germany |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | - |

Dosiahnuté výsledky:

Programy: UNESCO

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

| | |
|---|-----------------------|
| Zodpovedný riešiteľ: | Peter Vršanský |
| Zodpovedný riešiteľ v organizácii SAV: | Peter Vršanský |
| Trvanie projektu: | 1.1.1998 / |
| Evidenčné číslo projektu: | NA |
| Organizácia je koordinátorom projektu: | nie |
| Koordinátor: | Ústav vied o Zemi SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | - |

Podpora medzinárodnej spolupráce z národných zdrojov: 3440 €

Dosiahnuté výsledky:

Programy: Iné

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

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

Dosiahnuté výsledky:

Vínna muška *Drosophila melanogaster* je v súčasnosti mimoriadne populárnym modelom pre štúdium rôznych základných otázok v biológii. V našej práci využívame výhody tohto modelového organizmu na objasnenie regulácie tukového metabolizmu. Hlavným cieľom tohto projektu je skúmanie vzťahu medzi tukovým metabolizmom, rozmnožovaním a úlohou pohlavných hormónov v synchronizácii týchto procesov v závislosti od nutričných podmienok.

V r. 2020 sme okrem iného skúmali, ako je schopnosť rozmnožovania a množstvo tukových zásob ovplyvnené podmienkami, ktorým je jedinec vystavený počas skorého vývinového štádia. Testovali sme efekt rôznych typov potravy a taktiež vplyv teploty, ktorej boli jedinci vystavení počas larválneho štádia. Skúmali sme, či tzv. aklimácia (privykanie) na určité podmienky počas vývinu zvýhodní tieto jedince, ak okúsia podobné podmienky neskôr počas dospelosti.

Regulácia tukového metabolizmu a rozmnožovania vplyvom vývinovej diéty

Naša prvá štúdia publikovaná v tomto roku (Klepsatel et al., 2020, BMC Evolutionary Biology) skúmala, či vývin na neoptimálnej potrave zvýhodní dané jedince, ak budú podobnej potrave vystavené aj počas dospelosti. Skúmali sme, ako použité diéty ovplyvnia množstvo telesného tuku a tiež množstvo potomstva. Práca tiež testovala tzv. thrifty phenotype hypotézu, podľa ktorej nedostatočná výživa počas skorých vývinových štádií u ľudí vedie k dlhodobému programovaniu metabolizmu na „šetreniu“ energie, čo v prípade zlepšenia nutričných podmienok vedie k obezite v dospelosti. Naše výsledky ukázali, že k podobnej situácii dochádza i u vínnych mušiek. Ďalej sme preto skúmali vzťah medzi diétou v skorých a neskorších štádiách života a reprodukčnou zdatnosťou. Hypotéza o thrifty phenotype totiž predpokladá, že diétou vyvolané dlhodobé zmeny v tukovom metabolizme sú adaptívne, teda poskytujú výhodu v prípade, že organizmus je v dospelosti vystavený podobným nutričným podmienkam ako počas vývinu. Naša práca však prekvapivo ukázala, že táto časť hypotézy o thrifty phenotype u drozofil neplatí. Celkovo naša štúdia ukázala, že hoci nutričné podmienky počas vývinu vedú k značným zmenám vo fyziológii jedincov, tieto zmeny nemusia mať adaptívny charakter.

Regulácia metabolizmu vplyvom vývinovej teploty

Dôležitým faktorom ovplyvňujúcim množstvo tukových zásob (a s tým spojenú reprodukčnú zdatnosť) ektotermných živočíchov je vonkajšia teplota. V druhej štúdii publikovanej v r. 2020 (Klepsatel et al., 2020, Scientific Reports) sme skúmali potenciálny dlhodobý vplyv vývinovej teploty na množstvo hlavných energetických zásob, tuku a glykogénu. Vývin pri nižšej teplote (19 °C) vedie k väčšej telesnej veľkosti, ale i relatívne väčšiemu množstvu energetických zásob.

Zároveň tiež znižuje optimálnu teplotu pre energetické zásoby v dospelosti. Naopak, vývin pri vyššej teplote (29 °C) vedie k menšej veľkosti, relatívne menšiemu množstvu energetických zásob a k zvýšenej optimálnej teplote pre ukladanie zásob v dospelosti. Naše výsledky teda ukázali, že vplyv teploty na metabolizmus dospelých drozofil do značnej miery závisí od toho, pri akej teplote sa tieto jedince vyvinuli. Aklimácia (privykanie) na určitú teplotu má adaptívny charakter a môže predstavovať dôležitý faktor pri vysporiadaní sa so súčasnými klimatickými zmenami.

Vplyv potravy na hladinu ecdysteroidov

Ecdysteroidy sú dôležité hormóny ovplyvňujúce rôzne aspekty fyziológie živočíchov, od vývinu a telesnej veľkosti až po metabolické regulácie. V r. 2020 sme taktiež skúmali úlohu hormónov ecdysteroidov v synchronizácii metabolizmu a rozmnožovania s kvalitou potravy. Zaujímal nás predovšetkým vzťah medzi expresiou ecdysteroidných enzýmov a obezogénnymi diétami (predovšetkým vysoko-cukrovou, vysoko-tukovou a nízko-proteínovou potravou). V tomto výskume budeme pokračovať aj v r. 2021.

Zoznam publikovaných výstupov:

KLEPSATEL, Peter - GIRISH, Thirnahalli Nagaraj - GÁLIKOVÁ, Martina. Acclimation temperature affects thermal reaction norms for energy reserves in *Drosophila*. In *Scientific Reports*, 2020, vol. 10, art. no. 21681, 11 pp. (2019: 3.998 - IF, Q1 - JCR, 1.341 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-020-78726-z> Typ: ADCA

KLEPSATEL, Peter - KNOBLOCHOVÁ, Diana - GIRISH, Thirnahalli Nagaraj - DIRCKSEN, Heinrich - GÁLIKOVÁ, Martina. The influence of developmental diet on reproduction and metabolism in *Drosophila*. In *BMC Evolutionary Biology*, 2020, vol. 20, art. no. 93, 15 pp. (2019: 3.058 - IF, Q2 - JCR, 1.531 - SJR, Q1 - SJR). ISSN 1471-2148. Dostupné na: <https://doi.org/10.1186/s12862-020-01663-y> Typ: ADCA

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

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

Dosiahnuté výsledky:

Domáce projekty

Programy: VEGA

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

Zodpovedný riešiteľ: Alžbeta Darolová
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0065/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5589 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 1/0404/19
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1327 €

Dosiahnuté výsledky:

3.) Metabolické účinky pohlavných hormónov hmyzu (*Metabolic functions of insect gonad-derived hormones*)

Zodpovedný riešiteľ: Martina Gáliková
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: áno
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 8911 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Igor Kokavec
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 1/0127/20
Organizácia je koordinátorom projektu: nie
Koordinátor: Prírodovedecká fakulta UK, Bratislava
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1188 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Igor Kokavec
Trvanie projektu: 1.1.2019 / 31.12.2022
Evidenčné číslo projektu: 2/0063/19
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4039 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Barbara Mangová
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0111/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2960 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Peter Mašán
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0036/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5940 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Emanuel Procházka
Trvanie projektu: 1.1.2020 / 31.12.2023
Evidenčné číslo projektu: 2/0151/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5644 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Veronika Rusňáková Taragel'ová
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: VEGA 2/0119/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 6497 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Zbyšek Šustek
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 1/0370/18
Organizácia je koordinátorom projektu: nie
Koordinátor: Technická univerzita vo Zvolene
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1117 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Radovan Václav
Trvanie projektu: 1.1.2020 / 31.12.2024
Evidenčné číslo projektu: 2/0023/20
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Španielsko: 1
Čerpané financie: VEGA: 5722 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Ľubomír Vidlička
Trvanie projektu: 1.1.2017 / 31.12.2020
Evidenčné číslo projektu: 2/0139/17
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5977 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.1.2018 / 31.12.2021
Evidenčné číslo projektu: 2/0080/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 17465 €

Dosiahnuté výsledky:

Programy: APVV

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

Zodpovedný riešiteľ: Markéta Derdáková
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0463
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 73404 €

Dosiahnuté výsledky:

15.) Neuroendokrinná regulácia energetického metabolizmu v modeli *Drosophila melanogaster* (*Neuroendocrine regulation of energy metabolism in the *Drosophila melanogaster* model*)

Zodpovedný riešiteľ: Martina Gáliková
Trvanie projektu: 1.7.2020 / 30.6.2024
Evidenčné číslo projektu: 2/0080/18
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 23764 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Martina Ličková
Zodpovedný riešiteľ v organizácii SAV: Markéta Derdáková
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV-16-0518
Organizácia je koordinátorom projektu: nie
Koordinátor: Biomedicínske centrum SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 20000 €

Dosiahnuté výsledky:

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

Zodpovedný riešiteľ: Ladislav Roller
Trvanie projektu: 1.7.2017 / 30.6.2021
Evidenčné číslo projektu: APVV –16-0395
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 43486 €

Dosiahnuté výsledky:

18.) Funkčná analýza a produkcia bioaktívnych látok hmyzu a kliešťov

Zodpovedný riešiteľ: Dušan Žitňan
Trvanie projektu: 1.7.2019 / 30.6.2023
Evidenčné číslo projektu: APVV-18-0201
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav zoológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 38214 €

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

AAA Vedecké monografie vydané v zahraničných vydavateľstvách

- AAA01 MACEK, J.** - ROLLER, Ladislav* - BENEŠ, Karel - HOLÝ, Kamil - HOLUŠA, J. Blanokřídli České a Slovenské republiky II: Širopasí. 1. vydanie. Praha : Academia, 2020. 672 str. ATLAS, 12505. Dostupné na internete: <<https://www.academia.cz/blanokridli-ceske-a-slovenske-republiky-ii-siropasi-macek-jan-academia-2020>>. ISBN 978-80-200-2999-7

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 ČERNECKÝ, Ján - LEŠO, P. - RIDZOŇ, Jozef - KRIŠTÍN, Anton - KARASKA, Dušan - DAROLOVÁ, Alžbeta - FULÍN, Miroslav - CHAVKO, Jozef - BOHUŠ, Mirko - KRAJNIAK, Dušan - ĐURICOVÁ, Viktória - LEŠOVÁ, Andrea - ČULÁKOVÁ, Jana - SAXA, A. - DURKOŠOVÁ, Jana - ANDRAŠ, Peter. Stav ochrany vtáctva na Slovensku v rokoch 2013 –2018 = Conservation status of birds in 2013 –2018 in Slovakia. Recenzenti Peter Urban, Peter Puchala. Banská Bystrica : Štátna ochrana prírody SR, 2020. 105 s. ISBN 978–80–8184–084–5 (Vega 2/0018/19 : Ekologické analýzy akulturácie krajiny Slovenska od mladšieho praveku do dnes/Ecological Analyses of Landscape Acculturation in Slovakia since Early Prehistory until Today)

ABB Štúdie charakteru vedeckej monografie vydané v domácich vydavateľstvách

- ABB01 SMETANA, Vladimír - ROLLER, Ladislav - BENDA, Daniel - + 14, autorov - PETRÁKOVÁ, Lenka - RINDOŠ, Michal. Blanokrídlovce (Hymenoptera) na vybraných lokalitách Malých Karpát. In ACTA MUSEI TEKOVENSIS LEVICE : Zborník Tekovského múzea v Leviciach. - Levice : Tekovské múzeum v Leviciach, 2020, 2020, roč. XII, 232 str. ISBN 978-80-88831-24-2.

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

- ADCA01 APOSTOLOVIC, Danijela - MIHAILOVIC, Jelena - COMMINS, Scott P. - WIJNVELD, M. - KAZIMÍROVÁ, Mária - STARKHAMMAR, Maria - STOCKINGER, Hannes - PLATTS-MILLS, Thomas A.E. - CIRKOVIC VELICKOVIC, Tanja - HAMSTEN, Carl - VAN HAGE, Marianne**. Allergenomics of the tick Ixodes ricinus reveals important α -Gal-carrying IgE-binding proteins in red meat allergy. In Allergy : European journal of allergy and clinical immunology, 2020, vol. 75, no. 1, p. 217-220. (2019: 8.706 - IF, Q1 - JCR, 3.061 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0105-4538. Dostupné na: <https://doi.org/10.1111/all.13978>
- ADCA02 ATANAKOVIČ, Ana D. - ŠPORKA, Ferdinand - MARKOVIĆ, Vanja - SLOBODNIK, Jaroslav - ZORIĆ, Katarina - CSÁNYI, Bela - PAUNOVIČ, Momir M. Aquatic Worm Assemblages along the Danube: A Homogenization Warning. In Water, 2020, vol. 12, iss. 9, article no. 2612. (2019: 2.544 - IF, Q2 - JCR, 0.657 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2073-4441. Dostupné na: <https://doi.org/10.3390/w12092612>
- ADCA03 ATTARDO, Geoffrey M. - TAM, Nicole - PARKINSON, D. - LINDSEY, Mack - ZAHNLE, Xavier J - ARGUELLEZ, Joceline - TAKÁČ, Peter - MALACRIDA,

- Anna R. Interpreting Morphological Adaptations Associated with Viviparity in the Tsetse Fly *Glossina morsitans* (Westwood) by Three-Dimensional Analysis. In *Insects*, 2020, vol. 11, iss. 10, article no. 651. (2019: 2.220 - IF, Q1 - JCR, 0.838 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2075-4450. Dostupné na: <https://doi.org/10.3390/insects11100651>
- ADCA04 BUCZEK, A.** - BARTOSIK, Katarzyna - BUCZEK, A.M. - BUCZEK, Weronika - STANKO, Michal. Conspecific hyperparasitism in the *Hyalomma excavatum* tick and considerations on the biological and epidemiological implications of this phenomenon. In *Annals of Agricultural and Environmental Medicine*, 2019, vol. 26, no. 4, p. 548–554. (2018: 1.030 - IF, Q4 - JCR, 0.456 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 1232-1966. Dostupné na: <https://doi.org/10.26444/aaem/110128>
- ADCA05 DAROLOVÁ, Alžbeta** - KRISTOFÍK, Ján* - KNAUER, Felix - HOI, Herbert. Behavioural response of Eurasian Blackcaps to acoustically simulated conspecific and heterospecific male intruders. In *Journal of ornithology*, 2020, vol. 161, iss. 2, p. 447-458. (2019: 1.286 - IF, Q2 - JCR, 0.585 - SJR, Q2 - SJR). ISSN 2193-7206. Dostupné na: <https://doi.org/10.1007/s10336-019-01743-x>
- ADCA06 ERMILOV, Sergey G. - KALÚZ, Stanislav. A new species of *Fissicepheus* and a supplementary description of *Leptotocepheus murphyi* (Mahunka, 1989) (Acari, Oribatida, Otocephidae) from Malaysia. In *Acarologia*, 2019, vol. 59, iss. 4, p. 456-474. (2018: 1.047 - IF, Q3 - JCR, 0.609 - SJR, Q2 - SJR, karentované - CCC). (2019 - Current Contents). ISSN 0044-586X. Dostupné na: <https://doi.org/10.24349/acarologia/20194348> (VEGA 2/0139/17 : Ekologický a etologický výskum invázneho švába *Ectobius vittiventris* (Blattaria) na Slovensku)
- ADCA07 FANČOVIČOVÁ, Jana** - SZIKHART, Mário - PROKOP, Pavol*. Learning about Mushrooms Is Influenced by Survival Processing. In *American biology teacher*, 2020, vol. 82, no. 8, p. 529–534. (2019: 0.282 - IF, Q4 - JCR, 0.338 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 0002-7685. Dostupné na: <https://doi.org/10.1525/abt.2020.82.8.529> (VEGA 1/0286/20 : Potenciál druhej špecifickej fenotypovej „explózie“ vo forenznej rekonštrukcii introdukcie karanténnych Thysanoptera v umelo inteligentnom rozhraní)
- ADCA08 FANČOVIČOVÁ, Jana** - PROKOP, Pavol* - SZIKHART, Mário - PAZDA, Adam D. Snake coloration does not influence children's detection time. In *Human dimensions of wildlife*, 2020, vol. 25, iss. 5, p. 489-497. (2019: 1.723 - IF, Q3 - JCR, 0.565 - SJR, Q2 - SJR). ISSN 1087-1209. Dostupné na: <https://doi.org/10.1080/10871209.2020.1758252> (VEGA 1/0286/20 : Potenciál druhej špecifickej fenotypovej „explózie“ vo forenznej rekonštrukcii introdukcie karanténnych Thysanoptera v umelo inteligentnom rozhraní)
- ADCA09 FEVOLA, Cristina - ROSSI, Chiara - ROSSO, Fausta - GIRARDI, Mateo - ROSÀ, Roberto - MANICA, M. - DELUCCHI, Luca - ROCCHINI, Duccio - GARZON-LOPEZ, Carol X. - ARNOLDI, Daniele - BIANCHI, Alessandro - BUZAN, Elena - CHARBONNEL, Nathalie - COLLINI, Margherita - ĎUREJE, Ľudovít - ECKE, Frauke - FERRARI, Nicola - FICHER, Stefan - GILLINGHAM, Emma L. - HÖRNFELDT, Birger - KAZIMÍROVÁ, Mária - KONEČNÝ, A. - MAAS, Miriam - MAGNUSSON, Magnus - MILLER, Andrea - NIEMIMAA, Jukka - NORDSTRÖM, Åke - OBIEGALA, Anna - OLSSON, G. - PEDRINI, Paolo - PIÁLEK, Jaroslav - REUSKEN, C. - RIZZOLI, Franco - ROMEO, Claudia - SILAGHI, Cornelia - SIRONEN, T. - STANKO, Michal - TAGLIAPIETRA, V. - JÄÄSKELÄINEN, Anne J. - HENTTONEN, H. - HAUFFE, H.C.**. Geographical Distribution of Ljungan Virus in Small Mammals in Europe. In *Vector-Borne and Zoonotic Diseases*, 2020, vol. 20, no. 9, p. 692-702. (2019: 2.041 - IF, Q3 - JCR, 0.865 - SJR, Q2 - SJR, karentované - CCC). (2020 - Current Contents). ISSN

- 1530-3667. Dostupné na: <https://doi.org/10.1089/vbz.2019.2542> (FP7-261504 EDENext : Biology and Control of Vector-borne Infections in Europe)
- ADCA10 HART, Charles Edward - RIBEIRO, J. M. C - KAZIMÍROVÁ, Mária - THANGAMANI, Saravanan**. Tick-borne encephalitis virus infection alters the sialome of Ixodes ricinus ticks during the earliest stages of feeding. In *Frontiers in Cellular and Infection Microbiology : Specialty Journal of Frontiers in Microbiology*, 2020, vol. 10, art. no. 41. (2019: 4.123 - IF, Q2 - JCR, 1.626 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 2235-2988. Dostupné na: <https://doi.org/10.3389/fcimb.2020.00041>
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- ADCA20 LIČKOVÁ, Martina - FUMAČOVÁ, Sabina - SLÁVIKOVÁ, Monika - SLOVÁK, Mirko - DREXLER, J.F. - KLEMPA, Boris**. *Dermacentor reticulatus* is a vector of tick-borne encephalitis virus. In *Ticks and Tick-Borne Diseases*, 2020, vol. 11, no. 4, art. no. 1414. (2019: 2.749 - IF, Q2 - JCR, 1.182 - SJR, Q1 - SJR, karentované - CCC). (2020 - Current Contents). ISSN 1877-959X. Dostupné na: <https://doi.org/10.1016/j.ttbdis.2020.101414> (VEGA 2/0191/17 : Vírus, kliešť a krv: analýza exprese génov kliešťa *Ixodes ricinus* v kontexte infekcie vírusom kliešťovej encefalitidy a cicania.. APVV-16-0518 : O ovciach, kozách a víruse kliešťovej encefalitidy. 653316 : Európsky vírusový archív sa stáva globálnym)
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ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

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ADFB Vedecké práce v ostatných domácich časopisoch – neimpaktovaných

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- ADFB10 SEMELBAUER, Marek** - GRECHOVÁ, Diana. Silver fly *Parochthiphila spectabilis* (Loew, 1858) (Diptera, Chamaemyiidae) and thick-headed fly *Onops silaceus* Wiedemann in Meigen, 1824 and *Leopoldius valvatus* Kröber, 1914 (Diptera, Conopidae) new for Slovakia. In Entomofauna Carpathica, 2019, roč. 31, č. 2, s. 90-92. ISSN 1335-1214. Dostupné na internete: <http://www.ses.entomology.sk/entomofaunacarpatica/pdf/volume31/31_2_09_Semelbauer_2019_EC.pdf> (APVV-14-0652 : Pesticide-free control of the house fly and stable fly populations on livestock farms in Slovakia)
- ADFB11 SEMELBAUER, Marek** - BOGUSCH, Petr. The first finding of *Scolia galbula*

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- ADMA01 GAYE, Mapenda - AMANZOUGAGHENE, Nadia - LAIDOUDI, Younes - NIANG, El Hadji Amandou - SEKEYOVÁ, Zuzana - LAROCHE, Maureen - BÉRENGER, Jean-Michel - RAOULT, D. - KAZIMÍROVÁ, Mária - FENOLLAR, Florence - MEDIANNIKOV, O. Hymenopteran parasitoids of hard ticks in western Africa and the Russian far east. In *Microorganisms*, 2020, vol. 8, no. 12, art. no. 1992. (2019: 4.152 - IF, Q2 - JCR). (2020 - WOS, SCOPUS). ISSN 2076-2607. Dostupné na: <https://doi.org/10.3390/microorganisms8121992> (APVV-19-0066 : Výskum hostiteľsko-parazitických, bunkovo-Rickettsiových vzťahov, monitorovaných pomocou transcriptomických a proteomických štúdií)
- ADMA02 JELIAZKOV, Alienor** - MIJATOVIC, Darko - CHANTEPIE, Stéphane - ANDREW, Nigel - ARLETTAZ, Raphaël - BARBARO, Luc - BARSOUM, Nadia - BARTOŇOVÁ, Alena - BELSKAYA, Elena - BONADA, Núria - BRIND'AMOUR, Anik - CARVALHO, Rodrigo - CASTRO, Helena - CHMURA, Damian - CHOLER, Philippe - CHONG-SENG, Karen - CLEARY, Daniel - CORNWELL, William - DE CAMPOS, Ramiro - DE VOOGD, Nicole - DOLEDEC, Sylvain - DREW, Josua - DZIOCK, Frank - EALLONARDO, Anthony - EDGAR, Melanie J. - FARNEDA, Fábio - HERNANDEZ, Domingo Flores - FRENETTE-DUSSAULT, Cédric - FRIED, Guillaume - GALLARDO, Belinda - GIBB, Heloise - GONÇALVES-SOUZA, Thiago - HIGUTY, Janet - KRASNOV, Boris R. - LE SAUX, Eric - LINDO, Zoe - LOPEZ-BAUCELLS, Adria - LOWE, Elizabeth - MARTEINSDOTTIR, Bryndis - MARTENS, Koen - MEFFERT, Peter - MELLADO-DÍAZ, Andres - MENZ, Myles H.M. - MEYER, Christoph F.J. - MIRANDA, Julia Ramos - MOUILLOT, D. - OSSOLA, Alessandro - PAKEMAN, Robin J. - PAVOINE, Sandrine - PEKIN, Burak - PINO, Joan - POCHEVILLE, Arnaud - POMATI, Francesco - POSCHLOD, Peter - PRENTICE, Honor C. - PURSCHKE, Oliver - REITALU, Triin - RENEMA, Willem - RIBERA, I. - ROBINSON, Natalie - ROBROEK, Bjorn - ROCHA, Ricardo - SHIEH, Sen-Her - SPAKE, Rebecca - STANIASZEK-KIK, Monika - STANKO, Michal - TEJERINA-GARRO, Francisco Leonardo - TER BRAAK, Cajo J. F. - URBAN, Mark C. - VAN KLINK, Roel - VILLÉGER, Sébastien - WEGMAN, Ruut - WESTGATE, Martin J. - WOLFF, Jonas - ŽARNOWIEC, Jan - ZOLOTAREV, Maxim - CHASE, Jonathan M. A global database for metacommunity ecology, integrating species, traits, environment and space. In *Scientific Data*, 2020, vol. 7, no. 1, art. no. 6. (2019: 5.541 - IF, Q1 - JCR, 3.099 - SJR, Q1 - SJR). ISSN 2052-4463. Dostupné na: <https://doi.org/10.1038/s41597-019-0344-7>
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- ADMB02 SEMELBAUER, Marek* - OBOŇA, Jozef - BARTA, Marek - MANGOVA, Barbara** - KOZÁNEK, Milan. Spatial distribution and seasonal dynamics of non-biting moth flies (Diptera, Psychodidae) in confound conditions of a stable. In Polish Journal of Entomology, 2020, vol. 89, iss. 4, p. 190-199. (2019: 0.220 - SJR, Q4 - SJR). ISSN 0032-3780. Dostupné na: <https://doi.org/10.5604/01.3001.0014.4974>

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- AFD03 (Blattaria) na Slovensku. Študentská vedecká konferencia PriF UK 2020)
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- AFH03 HROMNÍKOVÁ, Dominika - ROLLER, Ladislav - KOČI, Juraj - FURKA, D. - FURKA, S. - ŽITŇAN, Dušan. Štúdium biologického účinku neuropeptidov alatotropín a alatostatín u kliešťa Ixodes ricinus. In 96. Fyziologické dni : zborník abstraktov. - Martin : Jesseniova Lekárska Fakulta v Martine Univerzita Komenského v Bratislave, 2020, s. 30. ISBN 978-80-8187-074-3. (Fyziologické dni. APVV-14-0556 : Funkcia neuropeptidov a ich receptorov pri regulácii prenosu patogénov z kliešťov na hostiteľa. APVV-18-0201 : Funkčná analýza a produkcia bioaktívnych látok hmyzu a kliešťov. VEGA-2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov. Fyziologické dni)
- AFH04 STAŠIOV, Slavomír - ASTALOŠ, B. - FENĎA, Peter - LUPTÁČIK, Peter - MACHAČ, Ondřej - MARŠALEK, Peter - MAŠÁN, Peter - MIHÁL, Ivan - MOCK, Andrej - ONDREJKOVÁ, Natália - PURGAT, Pavol - ŠESTÁKOVÁ, Anna - TAJOVSKÝ, Karel - TUF, Ivan Hadrián. Kosce (Opiliones) Burdy [Harvestmen (Opiliones) of Burda]. In 18. Arachnologická konferencia : zborník abstraktov. - Bratislava : Slovenská arachnologická spoločnosť, 2020, s. 27. ISBN 978-80-972437-4-6. (Arachnologická konferencia)
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- Katarína Hegedúšová Vantarová, [managing editor Section Botany: 2017-] František Hindák, [2000-2017] Igor Mistrík. Cham : Springer International Publishing, 2018-. Copyrith a vlastníci: Centrum biologie a rastlin a biodiverzity SAV, Ústav zoológie SAV, Ústav molekulárnej biológie SAV. 12 x ročne. ISSN 0006-3088
- FAI02 Bibliografia prác slovenských (do r. 2015) a českých (do r. 1993) autorov o kliešťoch a kliešťami prenášaných ochorení : Bibliography of studies on ticks and tick-borne pathogens published by Slovak (untill 2015) and by Czech (untill 1993) authors. Mirko Slovák a Michal Stanko. In Entomofauna Carpathica, 2020, vol. 32, suppl., p. 1-733. ISSN 1335-1214. (APVV-18-0201 : Funkčná analýza a produkcia bioaktívnych látok hmyzu a kliešťov. ITMS 26220220116 : Ochrana životného prostredia pred parazitozoonózami pod vplyvom globálnych klimatických a spoločenských zmien. Vega č. 1/0084/18 : Genetická analýza vybraných nových a novo sa objavujúcich patogénov so zoonotickým potenciálom u zvierat a ľud)

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

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ADCA42

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ADCA94

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ADCA311

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 38. [1.2] VUCELJA, Marko - BJEDOV, Linda - BOLJFETIĆ, Marko - KLOBUČAR, Ana - KRČMAR, Stjepan - BORAK, Svjetlana - MODRIĆ, Magdalena - JURIČIĆ, Karin - PELEŠ, Vanja - MARGALETIĆ, Josip - ČAVLEK, Tatjana Vilibić. Monitoring of hard ticks at urban recreational sites in the city of zagreb from 2016 to 2018. In Infektoloski Glasnik. ISSN 13312820, 2019-01-01, 39, 2, pp. 33-39., Registrované v: SCOPUS

ADMB06 RUSSELL, P. - ŽITŇAN, Dušan - MAJOR, V. Confirmation of the presence of *Melitaea ornata* Christoph, 1893 (Lepidoptera: Nymphalidae) in Macedonia (FYROM) and its host-plants. In Entomologists Gazette, 2015, vol. 66, iss.1, pp. 13-24. (2014: 0.240 - SJR, Q4 - SJR). ISSN 0013-8894.

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1. [3.1] CUVELIER Sylvain, PARMENTIER Laurian, PAPARISTO Anila, COUCKUY Jurgen. Butterflies of Albania –Fluturat e Shqipërisë. New surveys, new species and a new checklist (Lepidoptera: Papilionoidea) In PHEGEA, 01.vi.2018, 46(2) 01.vi.2018: p. 50. ISSN:0771-5277

ADMB07 ŠTEFÁNIKOVÁ, Soňa - PROKOP, Pavol. Do We Believe Pictures More or Spoken Words? How Specific Information Affects how Students Learn About Animals. In Eurasia Journal of Mathematics, Science & Technology Education, 2015, vol. 11, no. 4, p. 725–733. (2014: 1.016 - IF, Q2 - JCR, 0.602 - SJR, Q2 - SJR, karentované - CCC). (2015 - Current Contents). ISSN 1305-8215. Dostupné na: <https://doi.org/10.12973/eurasia.2015.1380a>

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1. [1.2] BONIN, Patrick - MEÓT, Alain. Why are we still afraid of snakes? Contributions of evolutionary psychology to the understanding of certain behavioral biases. In *Annee Psychologique*. ISSN 00035033, 2019-01-01, 119, 3, pp. 363-396., Registrované v: SCOPUS

2. [1.2] ROOSAN, Don - LI, Yan - LAW, Anandi - TRUONG, Huy - KARIM, Mazharul - CHOK, Jay - ROOSAN, Moom. Improving medication information presentation through interactive visualization in mobile apps: Human factors design. In *JMIR mHealth and uHealth*, 2019-01-01, 7, 11, pp., Registrované v: SCOPUS

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

ADNA01 NECHVÁTAL, Pavol - TAKÁČ, Peter - STEHLÍKOVÁ, Beáta. Effect of spa therapy after intervertebral disc surgery in the cervical spine. In Bratislava Medical Journal, 2014, vol. 115, iss. 4, p. 238-242. (2013: 0.446 - IF, Q4 - JCR, 0.196 - SJR). ISSN 0006-9248. Dostupné na: https://doi.org/10.4149/BLL_2014_050

Citácie:

1. [1.2] CORVILLO, Iluminada - ARMIJO, Francisco - ÁLVAREZ-BADILLO, Antonio - ARMIJO, Onica - VARELA, Enrique - MARAVER, Francisco. Efficacy of aquatic therapy for neck pain: a systematic review. In *International Journal of Biometeorology*. ISSN 00207128, 2019-01-01, pp., Registrované v: SCOPUS

*AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách

AEC01 KOVÁČ, Ľubomír - MOCK, A. - ĽUPTÁČIK, Peter - KOŠEL, V. - FENĎA, Peter - SVATONĚ, Jan - MAŠÁN, Peter. Terrestrial arthropods of the Domica Cave system and the Ardovská Cave (Slovak Karst) – principal microhabitats and diversity. In

Contributions to Soil Zoology in Central Europe I : Proceedings of the 7th Central European Workshop on Soil Zoology : Held in České Budějovice, Czech Republic, April 14-16, 2003. Karel Tajovský, Jiří Schlaghamerský, Václav Pižl (eds). - Institute of Soil Biology, Academy of Sciences of the Czech Republic, 2005, p. __. ISBN 808652504X, 9788086525044. Dostupné na internete: <<http://cavebiology.net/publications/18.pdf>>

Citácie:

1. [1.1] FENG, Zegang - WYNNE, J. Judson - ZHANG, Feng. Two new subterranean-adapted pseudoscorpions (Pseudoscorpiones: Neobisiidae: Parobisium) from Beijing, China. In ZOOTAXA. ISSN 1175-5326, 2019, vol. 4661, no. 1, pp. 145-160., Registrované v: WOS

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

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

Citácie:

1. [3.1] BALÁZS Attila, HARIS Attila. Sawflies (Hymenoptera: Symphyta) of Cerová vrchovina Upland (South Slovakia). In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 61-74.

2. [3.1] HARIS Attila. Sawflies of the Keszthely Hills and its surroundings. In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 107-128.

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

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

Citácie:

1. [4.1] JARČUŠKA, Benjamin. Rovnokrídlavce (Orthoptera) a modlivky (Mantodea) NP Poloniny : poznámky k výskytu druhov. In XLII. Východoslovenský tábor ochrancov prírody : prehľad výsledkov odborných sekcií. Zostavil Miroslav Fulín. Banská Bystrica : Štátna ochrana prírody SR, 2019, s. 40-44. ISBN 978-80-8184-058-6.

AEDA02 ROLLER, Ladislav. Hrubopáse blanokrídlavce (Hymenoptera, Symphyta) Tematínskych vrchov – zhrnutie faunistického výskumu. In Najvzácnejšie prírodné hodnoty Tematínskych vrchov : zborník výsledkov inventarizačného výskumu územia európskeho významu Tematínske vrchy. - Trenčín : KOZA, 2006, p. 53-55.

Citácie:

1. [3.1] BALÁZS Attila, HARIS Attila Sawflies (Hymenoptera: Symphyta) of Cerová vrchovina Upland (South Slovakia) NATURA SOMOGYIENSIS ISSN: 2062-9990, 2019, (33). pp. 61-74.

2. [3.1] HARIS Attila Sawflies of the Keszthely Hills and its surroundings. NATURA SOMOGYIENSIS ISSN: 2062-9990, 2019, (33), pp. 107-128.

AEDA03 ROLLER, Ladislav. Príspevok k poznaniu hrubopásych (Hymenoptera, Symphyta) a rohačkovitých (Diptera, Sciomyzidae) prírodnej pamiatky Mitická slatina. In Zborník výsledkov inventarizačného výskumu prírodnej pamiatky Mitická slatina, p. 32-36.

Citácie:

1. [3.1] *BALÁZS Attia, HARIS Attila Sawflies (Hymenoptera: Symphyta) of Cerová vrchovina Upland (South Slovakia) NATURA SOMOGYIENSIS ISSN: 2062-9990, 2019, (33). pp. 61-74.*
2. [3.1] *HARIS Attila. Sawflies of the Keszthely Hills and its surroundings. In NATURA SOMOGYIENSIS ISSN 2062-9990, 2019, (33) pp. 107-128.*

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

- AEDB01 VRŠANSKÝ, Peter - KOUBOVÁ, Ivana - VRŠANSKÁ, Lucia - HINKELMAN, Jan - KÚDELA, Matúš - KÚDELOVÁ, Tatiana - LIANG, Jun-Hui - XIA, Fungyuan - LEI, Xiaojie - REN, Xiaoyin - VIDLIČKA, Ľubomír - BAO, Tong - ELLENBERGER, Sieghard - ŠMÍDOVÁ, Lucia - BARCLAY, Maxwell. Early wood-boring Mole roach reveals eusociality "missing ring". In Amba projekty. - Bratislava, 2010, 2019, vol. 9, no. 1, 28 p.
- Citácie:
1. [1.1] *BARNA, Peter - SMIDOVA, Lucia - COUTINO JOSE, Marco Antonio. Living cockroach genus Anaplecta discovered in Chiapas amber (Blattaria: Ectobiidae: Anaplecta vega sp.n.). In PEERJ. ISSN 2167-8359, 2019, vol. 7, no., pp., Registrované v: WOS*

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 KARBOWIAK, Grzegorz - VÍCHOVÁ, Bronislava - SLIVINSKA, Kateryna - WERSZKO, Joanna - DIDYK, Yu. M. - PETKO, Branislav. The infection of Dermacentor reticulatus ticks with Babesia canis and Anaplasma phagocytophilum in Chernobyl exclusion zone. In Annals of Parasitology, 2013, vol. 59, no. suppl, p. 171. ISSN 0043-5163.
- Citácie:
1. [3.1] *LEVYTSKA V. A., MUSHINSKY A. B. Monitoring of vector-borne diseases in the west part of Ukraine. In SCIENTIFIC MESSENGER OF LNU OF VETERINARY MEDICINE AND BIOTECHNOLOGIES. SERIES: VETERINARY SCIENCES, 2019, vol. 21, no. 96, p. 14-18. ISSN 2518-7554.*

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

- BDEB01 ROLLER, Ladislav. New records of sawflies (Hymenoptera, Symphyta) from Slovakia. In Entomological problems, 1993, vol. 24, no. 2, p. 81-84. ISSN 0071-0792.
- Citácie:
1. [3.1] *BALÁZS Attia, HARIS Attila. Sawflies (Hymenoptera: Symphyta) of Cerová vrchovina Upland (South Slovakia). In NATURA SOMOGYIENSIS ISSN: 2062-9990, 2019, (33). pp. 61-74.*
 2. [3.1] *HARIS Attila. Sawflies of the Keszthely Hills and its surroundings. In NATURA SOMOGYIENSIS ISSN 2062-9990, 2019, (33) pp. 107-128.*

BDF Odborné práce v ostatných domácich časopisoch

- BDF01 ROLLER, Ladislav. Zubačkovité (Megalodontesidae) hrubopáse xerothermov. In Hmyz, 2000, roč. 1, č. 1, s. 17-18.
- Citácie:
1. [3.1] *BALÁZS Attia, HARIS Attila. Sawflies (Hymenoptera: Symphyta) of*

- Cerová vrchovina Upland (South Slovakia). In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 61-74.*
2. [3.1] *HARIS Attila. Sawflies of the Keszthely Hills and its surroundings. In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 107-128.*

DAI Dizertačné a habilitačné práce

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

Citácie:

1. [3.1] *BALÁZS Attia, HARIS Attila. Sawflies (Hymenoptera: Symphyta) of Cerová vrchovina Upland (South Slovakia). In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 61-74.*
2. [3.1] *HARIS Attila. Sawflies of the Keszthely Hills and its surroundings. In NATURA SOMOGYIENSIS. ISSN 2062-9990, 2019, (33). pp. 107-128.*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Mgr. Radovan Václav, PhD.

Názov semestr. predmetu: Evolučná ekológia

Počet hodín za semester: 24

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

Semestrálne cvičenia:

Semináre:

Terénne cvičenia:

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Terénne práce z ekológie

Počet hodín za semester: 21

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

Individuálne prednášky:

Mgr. Martina Gáliková, PhD.

Názov semestr. predmetu: Pokroky v molekulárnej biológii

Počet hodín za semester: 3

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

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Ekologické princípy ochrany prírody / Voľná pastva

Počet hodín za semester: 1

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

Mgr. Marek Semelbauer, PhD.

Názov semestr. predmetu: Krajina a biodiverzita / Veľké spásače

Počet hodín za semester: 1

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Ústav laboratórneho výskumu geomateriálov

RNDr. Peter Takáč, CSc.

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

Počet hodín za semester: 2

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

RNDr. Dušan Žitňan, DrSc.

Názov semestr. predmetu: Vybrané kapitoly

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra 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 |
| Počet vyslaní spolu | | | | | | |

(B) Prijatie vedeckých pracovníkov zo zahraničia na základe dohôd:

| Krajina | D r u h d o h o d y | | | | | |
|---------------------|---------------------|-----------|-----------------|-----------|-----------------|-----------|
| | MAD, KD, VTS | | Medziústavná | | Ostatné | |
| | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní |
| Počet prijatí spolu | | | | | | |

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

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

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

Skratky použité v tabuľke C:

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

| Meno | Spoluautori | Typ¹ | Názov | Miesto zverejnenia | Dátum alebo počet za rok |
|---|---|------------------------|--|---|---------------------------------|
| RNDr. Alžbeta Darolová, CSc. | žiadni | RO | rozprávanie o vtákoch, migrácii | RTVS | 17.6.2020 |
| MVDr. Markéta Derdáková, PhD. | | TV | Kliešte prenášače Lymfatickej boreliózy a význam vtákov v cirkulácii borélií | ranné vysielanie TV JOJ | 4.6.2020 |
| MVDr. Markéta Derdáková, PhD. | | RO | Rozhovor o kliešťoch a kliešťami prenášaných ochoreniach | Rádio FM | 29.6.2020 |
| MVDr. Markéta Derdáková, PhD. | | TV | Sezónna aktivita kliešťov | hlavné správy TV JOJ | 28.5.2020 |
| MVDr. Yuliya Didyk, PhD. | Marketa Derdakova, Diana Selyemova, Barbara Mangova, Veronika Taragel'ová | TV | Kliešte | Bratislava | 9.6.2020 |
| Mgr. Martina Gáliková, PhD. | | IN | prednáška na podujatí Noc výskumníkov: Vínne mušky a výskum civilizačných chorôb | online cez zoom, youtube: https://www.youtube.com/watch?v=tMnn0MSx2tU | 27.11.2020 |
| Mgr. Martina Gáliková, PhD. | | TL | rozhovor pre časopis Slovenka: Veda a materstvo idú dohromady. | časopis Slovenka, https://slovenka.zenskyweb.sk/clanok/47237-veda-materstvo-idu-dohromady | 2020 |
| Mgr. Martina Gáliková, PhD. | | RO | rozhovor pre Rádio Slovensko, relácia Doma je doma | rozhlas, https://slovensko.rtv.s.k/relacie/doma-je-doma/216306/doma-je-doma-martina-galikova | 1.2.2020 |
| RNDr. Mária Kazimírová, CSc. | | TL | rozhovor | https://ahojmama.pravda.sk/clanky/rozhovor-odbornicka-na-kliestov-maria-kazimi/12973-clanok.html | 21.6.2020 |
| RNDr. Mária Kazimírová, CSc. | | TV | rozhovor | Teleráno Markíza | 2.7.2020 |
| Mgr. Barbara Mangová, PhD. | | TL | Verní v posteli | časopis Téma | 7.2.2020 |
| Ing. Ladislav Roller, PhD. | | RO | Nebezpečné sršne | Radio Regina RTVS | 5.6.2020 |
| Mgr. Veronika Rusňáková Taragel'ová, PhD. | | IN | Kliešte - prenášače nebezpečných chorôb | https://astrotech.cz/klieste-prenasace-nebezpecnych-chorob/ | 21.7.2020 |

| | | | | | |
|-----------------------------|---|----|--|---|------------|
| Mgr. Marek Semelbauer, PhD. | | PB | Európska noc výskumníkov | online štúdio: https://www.nocvyskumnikov.sk/ | 27.11.2020 |
| Mgr. Marek Semelbauer, PhD. | | EX | Háved' Zámockého Parku | Malacky | 8.8.2020 |
| Mgr. Marek Semelbauer, PhD. | | PB | Opel'ovače na okrajoch, Permakultúra v meste | Žilina, Nová synagóga | 7.3.2020 |
| Mgr. Marek Semelbauer, PhD. | | TL | V holej pôde pulzuje čulý život | 50+, Revue pre zrelých čitateľov | 15.7.2020 |
| Mgr. Marek Semelbauer, PhD. | Adela Vinczeová | PB | Trochu inak | Slovenské národné divadlo | 21.9.2020 |
| Mgr. Marek Semelbauer, PhD. | Andrej Barát | TL | Ani najväčšie sršne nepredstavujú najväčšiu hrozbu | denník Pravda, https://zurnal.pravda.sk/spolocnost/clanok/552045-ani-najvacsie-srsne-nepredstavuju-najvacsiu-hrozbu/ | 25.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Andrej Kovarik | IN | Vedeli ste, že na Slovensku máme vyše 650 druhov včiel? | Facebook, https://www.facebook.com/watch/?v=283646526367570 | 20.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Daniela Augustínska | TL | Skutočne zahynieme bez včiel? | 50+, Revue pre zrelých čitateľov | 15.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Jana Liptáková | IN | Náš život je závislý na včelách | SME, https://zahrada.sme.sk/c/22408502/od-vciei-z-avisi-nasa-buducnost-od-ostatnych-opelovaco-v-nasa-trvala-pritomnost.html | 20.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Jana Liptáková | TL | Od včiel závisí naša budúcnosť | Doma v záhrade | 1.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Jana Liptáková | TL | Za úrodu vďačíme rôznemu hmyzu | denník SME v regióne | 11.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Jana Májeková | EX | Opelovače a kvitnúce byliny | Mestské lesy Bratislavy | 4.8.2020 |
| Mgr. Marek Semelbauer, PhD. | Jana Májeková | EX | Opelovače a rastliny Kamzíka | Kamzík | 21.6.2020 |
| Mgr. Marek Semelbauer, PhD. | Matej Pok | DO | Vo svetle noci | https://www.youtube.com/ | 11.11.2020 |
| Mgr. Marek Semelbauer, PhD. | Matúš Beňo | IN | Voľne žijúce včely sú na tom zle. Je namieste chrániť ich, vraví vedec | https://tech.sme.sk/c/22409518/volne-zijuce-vcely-su-na-tom-zle-je-na-mieste-chranit-ich-vravi-vedec.html?ref=tab | 21.5.2020 |
| Mgr. Marek Semelbauer, PhD. | Michal Zeman, Jana Nováková | PB | Svetelne znečistenie, čo nam hrozi | CVTI, https://mail.google.com/mail/u/0/#search/fvf+2020/FMfcgwxKjTMPgzKgVhLPZjkvFXMpsfMV | 11.11.2020 |
| Mgr. Marek Semelbauer, PhD. | Peter Puchala, Peter Lipovksý, Matej Čičo, Jana | TV | Naše pastevné lesy zanikli. No je tu ešte Panónsky háj | Doma v záhrade | 1.6.2020 |

| | | | | | |
|-----------------------------------|------------------|----|---|---|-----------|
| | Liptáková | | | | |
| doc. RNDr. Michal Stanko, DrSc. | | IN | príspevok (konzultácia) o cudzokrajných kliešťoch u nás | vZdravotníctve.sk; https://www.webnoviny.sk/vzdravotnictve/naslovensku-sa-objavuje-aj-novy-druh-velkeho-kliesta-na-prvy-pohlad-pripomina-pavuka/ / in | 2020 |
| doc. RNDr. Michal Stanko, DrSc. | Dr. L. Blanárová | IN | príspevok, konzultácia; Akčné ženy | https://aknezeny.sk/kliešte-ocami-odbornikov-ako-sa-ich-zbavit/ | 17.7.2020 |
| Ing. Zbyšek Šustek, CSc. | | TV | Invázne druhy slniečok | Televízia joj | 2020 |
| doc. RNDr. Ľubomír Vidlička, CSc. | | RO | Šváby v domácnosti | Rádio Regina RTVS | 5.6.2020 |
| Mgr. Marek Semelbauer, PhD. | | TL | Menej známe opel'ovače | Dymák, časopis pre všetkých včelárov | 5 |

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