Ústav molekulárnej biológie SAV, v. v. i.

Výročná správa o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022

Bratislava
jún 2023

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Správa štatutárneho audítora k ročnej účtovnej závierke, ak sa k ročnej účtovnej závierke za príslušný rok vyhotovuje

1. Základné údaje o verejnej výskumnej inštitúcii

Názov: Ústav molekulárnej biológie SAV, v. v. i., (ďalej skrátene „ÚMB SAV, v. v. i.“)
Riaditeľka: Ing. Eva Kutejová, DrSc.
1. zástupkyňa riaditeľky: Ing. Daniela Krajčíková, CSc.
2. zástupkyňa riaditeľky: Ing. Anna Varcholová
Adresa: Dúbravská cesta 21, 845 51 Bratislava
Tel.: 02 5930 7411
E-mail: umbidir@savba.sk
http://www.imb.savba.sk/

Názvy a adresy organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

2. Zmeny zakladacej listiny, vnútorných predpisov verejnej výskumnej inštitúcie alebo vnútorných predpisov zakladateľa

Nemáme žiadne zmeny v zakladacej listine.

3. Zloženie orgánov, zmeny v ich zložení a ich činnosť

Zloženie orgánov k 31. 12. 2022:

Správna rada
Predsedníčka: Ing. Eva Kutejová, DrSc.
Podpredsedníčka: RNDr. Gabriela Bukovská, CSc.
Členovia: RNDr. Mária Bučková, PhD., Ing. Daniela Krajčíková, CSc.,
RNDr. Vladimír Pevala, PhD.

Vedecká rada
Predseda: Mgr. Ľuboš Kľučár, PhD.
Podpredseda: RNDr. Ján Kormanec, DrSc.
Tajomník: Ing. Juraj Majtán, DrSc., MBA, FIFST
Členovia: Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD.,
prof. Ing. Štefan Janeček, DrSc., prof. RNDr. Ľubomír Tomáška, DrSc.

Dozorná rada
Predsedníčka: prof. RNDr. Ľubica Lacinová, DrSc.
Členovia: prof. RNDr. Anton Horváth, CSc., Ing. Veronika Púčiková

Priebeh zmien v zložení orgánov počas roka 2022:

Správna rada ÚMB SAV, v. v. i., bola zvolená v zložení Ing. Eva Kutejová, DrSc., RNDr. Gabriela Bukovská, CSc., Ing. Daniela Krajčíková, CSc., Mgr. Vladimír Pevala, PhD. a Ing. Anna Varcholová.

V marci 2022 sa uskutočnili voľby do Vedeckej rady Ústavu molekulárnej biológie SAV, v. v. i., ktorej internými členmi sa stali Mgr. Ľuboš Kľučár, PhD., RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST, prof. Ing. Štefan Janeček, DrSc., a externými členmi Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD. a prof. RNDr. Ľubomír Tomáška, DrSc.

Členovia Dozornej rady ÚMB SAV, v. v. i., v zložení prof. RNDr. Ľubica Lacinová, DrSc., prof. RNDr. Anton Horváth, CSc. a Ing. Veronika Púčiková boli vymenovaní Predsedníctvom SAV.

V priebehu roka 2022 sa uskutočnili dvakrát doplňujúce voľby do Správnej rady ÚMB SAV, v. v. i., kvôli odchodu do dôchodku a odstúpenia Ing. Anny Varcholovej (k 30. 06. 2022) a nahradila ju novozvolená Mgr. Zuzana Juríková (27. 07. 2022). Následne po odstúpení Mgr. Zuzany Juríkovej bola 9. 11. 2022 v doplňujúcich voľbách zvolená nová členka Správnej rady ÚMB SAV, v. v. i., RNDr. Mária Bučková, PhD.

V roku 2022 nastali zmeny vo vedení Ekonomického oddelenia. Ing. Anna Varcholová odišla do dôchodku a funkciu vedúcej prebrala Mgr. Zuzana Juríková, ktorá však ukončila pracovný pomer ešte v skúšobnej dobe. Nový vedúci Ekonomického oddelenia Mgr. Pavol Pataky nastúpi v januári 2023.

Správna rada ÚMB SAV, v. v. i., vypracovala a pripravila v spolupráci s Vedeckou radou

ÚMB SAV, v. v. i., a predstaviteľmi odborovej organizácie ZO OZ SAV pri ÚMB SAV, v. v. i., nové vnútorné predpisy organizácie, ku ktorým sa okrem Vedeckej rady vyjadrila aj Dozorná rada ÚMB SAV, v. v. i. Finálne znenie vnútorných predpisov organizácie schválila Správna rada ÚMB SAV, v. v. i., na svojom zasadnutí 25. 2. 2022.

Činnosť Vedeckej rady počas roka 2022:

V roku 2022 Vedecká rada ÚMB SAV, v. v. i., (ďalej „VR“) zasadala prezenčne, resp. videokonferenčne, celkom 16-krát a päťkrát rozhodovala hlasovaním *per rollam*.
Prvé dve zasadnutia v roku 2022, v dňoch **10. 1. 2022** a **27. 1. 2022** boli v kompetencii predošlej VR, ktorej predsedal RNDr. Imrich Barák, DrSc. s členmi VR v zložení: RNDr. Dagmar Homérová, CSc., prof. Ing. Štefan Janeček, DrSc., Mgr. Ľuboš Kľučár, PhD., RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST, RNDr. Tomáš Kuchta, DrSc. (ext.), prof. RNDr. Katarína Mikušová, DrSc. (ext.) a prof. RNDr. Ľubomír Tomáška, DrSc. (ext.). Obe zasadnutia predošlej VR boli venované predovšetkým príprave výročnej správy činnosti našej organizácie za rok 2021 a personálnym otázkam týkajúcim sa vyjadreniam k návrhom na predlžovanie pracovných zmlúv vedeckých a odborných zamestnancov.
Dňa **10. 1. 2022** VR organizovala a zabezpečila voľbu členov Správnej rady ÚMB SAV, v. v. i. Za členov Správnej rady ÚMB SAV, v. v. i., boli zvolení nasledovní pracovníci ústavu: RNDr. Gabriela Bukovská, CSc., Ing. Daniela Krajčíková, CSc., Mgr. Vladimír Pevala, PhD. a Ing. Anna Varcholová. Predsedníčkou Správnej rady sa zo zákona stala riaditeľka ústavu Ing. Eva Kutejová, DrSc. Členovia VR na svojom zasadnutí **27. 1. 2022** prerokovali a schválili najlepšie výsledky našej organizácie za rok 2021 v kategóriách Základný výskum, Aplikačný typ a Medzinárodné vedecké projekty.
Pôvodnej vedeckej rade ÚMB SAV, v. v. i., sa skončilo funkčné obdobie k dňu 14. 2. 2022 a Správna rada v zmysle volebného a nominačného poriadku na členov VR organizácie zabezpečila vypísanie a priebeh voľby nových členov VR oprávnenými voličmi ÚMB SAV, v. v. i., ktoré sa uskutočnili videokonferenčnou formou dňa 9. 3. 2022.
VR v novom zložení: prof. Ing. Štefan Janeček, DrSc., Mgr. Ľuboš Kľučár, PhD., RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., MBA, FIFST, Ing. Zuzana Ciesarová, CSc. (ext.), prof. RNDr. Hana Drahovská, PhD. (ext.) a prof. RNDr. Ľubomír Tomáška, DrSc. (ext.) si na svojom prvom zasadnutí konanom dňa **11. 3. 2022** zvolila predsedu VR Mgr. Ľuboša Kľučára, PhD., podpredsedu RNDr. Jána Kormanca, DrSc. a tajomníka Ing. Juraja Majtána, DrSc., MBA, FIFST. Dňa **16. 3. 2022** členovia VR hlasovali formou *per rollam* o predĺžení pracovnej zmluvy zamestnankyne ústavu. Dňa **24. 3. 2022**, sa členovia VR vyjadrili formou *per rollam* k žiadosti zamestnanca o možnosť podania žiadosti na priznanie kvalifikačného stupňa IIa.
Dňa **1. 4. 2022** sa uskutočnilo videokonferenčné zasadnutie VR, ktoré bolo venované vypracovaniu akreditačného dotazníka, konkrétne opisu najdôležitejších výskumných a vývojových aktivít za hodnotené obdobie. Predmetom zasadnutia VR dňa **7. 4. 2022** a **28. 4. 2022** bola opäť akreditácia ÚMB SAV, v. v. i., a príprava akreditačného dotazníka.
Na svojom ďalšom zasadnutí konanom dňa **19. 5. 2022** sa okrem pokračujúcej prípravy akreditačného dotazníka členovia VR zaoberali aj prípravou podkladov pre nový systém hodnotenia univerzít a ústavov SAV za obdobie 2014-2019, ktorý bol pripravený Ministerstvom školstva, vedy, výskumu a športu Slovenskej republiky (VER). Podklady na hodnotenie (vedecké výstupy) bolo potrebné dodať do polovice júla 2022. Členovia VR sa na zasadnutí vyjadrovali aj k personálnym otázkam a predlžovaniu pracovných zmlúv.

Dňa **20. 6. 2022** sa uskutočnilo stretnutie členov VR a potenciálnych školiteľov s uchádzačmi o doktorandské štúdium na ÚMB SAV, v. v. i.
Nosnou témou zasadnutia VR konaného dňa **14. 7. 2022** a **29. 9. 2022** bol personálny manažment ÚMB SAV, v. v. i., a vyjadrovanie sa k predlžovaniu, resp. prijímaniu nových zamestnancov na zastupovanie počas materskej, resp. rodičovskej dovolenky. Dňa **27. 7. 2022** VR organizovala a zabezpečila doplňujúce voľby člena správnej rady ústavu.
Dňa **25. 8. 2022**, sa VR formou *per rollam* vyjadrovala k návrhu na prijatie nového zamestnanca a zároveň externého študenta doktorandského štúdia.
Dňa **7. 9. 2022** VR formou *per rollam* schválila nomináciu na návrh ceny SAV za budovanie infraštruktúry pre vedu a tiež schválila nomináciu člena odborovej komisie v programe Genetika na Prírodovedeckej fakulte UK.
Na zasadnutí VR dňa **29. 9. 2022** schvaľovala VR aj žiadosti dvoch pracovníkov o možnosť uchádzať sa o Schwarzov post-doktorandský fond, hradený z centrálnych zdrojov SAV. Členovia VR na stretnutí navrhli aj termín voľby nového člena správnej rady ÚMB SAV, v. v. i.
Dňa **9. 11. 2022** VR organizovala a zabezpečila doplňujúce voľby člena správnej rady ústavu.
Na zasadnutí VR dňa **10. 11. 2022** členovia VR prerokovali návrh zapojenia študentov doktorandského štúdia na ÚMB SAV, v. v. i., do súťaže Študentská osobnosť roka 2022. Členovia VR na svojom zasadnutí prerokovali aj návrhy predlžovania pracovných zmlúv zamestnancov, schválili modifikovaný návrh Smernice personálnej politiky ÚMB SAV, v. v. i., a čiastočne sa venovali aj hodnoteniu vedeckej činnosti pracovných skupín za rok 2022. Dňa **30. 11. 2022** *per rollam* hlasovaním VR schválila upravený postup hodnotenia vedeckej činnosti pracovných skupín za rok 2022 pre potreby rozdeľovania odmien, ktorý bol bez položky "Ohlasy na vedecké výstupy" z dôvodu ich oneskoreného spracovania.
Na svojom poslednom zasadnutí v roku 2022 dňa **7. 12. 2022** VR vykonala kontrolu výstupov a správnosť údajov ročného hodnotenia jednotlivých pracovných skupín a zaoberala sa aj návrhom predsedu VR o úprave personálneho manažmentu a vyjadrovania sa VR k novým, resp. predlžovaným zmluvám vedeckých pracovníkov na ústave.

<u>Činnosť Správnej rady počas roka 2022:</u>

Správna rada (ďalej „SR“)sa zišla na zasadnutiach v priebehu roka 2022 11-krát, z toho 9-krát prezenčne a dvakrát formou *per rollam*.
Na **1**. zasadnutí **21. 1. 2022** si členovia SR zvolili za podpredsedníčku RNDr. Gabrielu Bukovskú, CSc. a venovali sa postupu akou formou pripravia aktualizované vnútorné predpisy organizácie v zmysle vzorových predpisov SAV s dodatkami.
Na **2**. zasadnutí **25. 1. 2022** prerokovala SR aktualizované vnútorné predpisy organizácie ako aj postup pre zabezpečenie volieb novej VR ÚMB SAV, v. v. i.
Na **3**. zasadnutí **1. 2. 2022** sa členovia SR dohodli na posledných úpravách a kontrole návrhov jednotlivých vnútorných predpisov ÚMB SAV, v. v. i., pred ich zaslaním na vyjadrenie Dozornej rade a VR ÚMB SAV, v. v. i., a stanovili termín konania volieb VR na 9. 3. 2022.
Na **4**. zasadnutí **25. 2. 2022** SR schválila návrh vnútorných predpisov ÚMB SAV, v. v. i., (Uznesenie č. 1/2022).
Na **5**. zasadnutí **16. 3. 2022** členovia SR prerokovali návrh rozpočtu organizácie na roky 2023 – 2025 a schválili finančný plán ÚMB SAV, v. v. i., (Uznesenie č. 2/2022).
Na **6**. zasadnutí **21. 6. 2022** členovia SR prerokovali a schválili Návrh na vydanie Rozhodnutia o dočasnej nepotrebnosti nehnuteľného majetku ÚMB SAV, v. v. i., (Uznesenie č. 3/2022) a po

zapracovaní opráv schválili Smernicu o cestovných náhradách pri pracovných cestách a Smernicu o odmeňovaní pracovníkov ÚMB SAV, v. v. i., (Uznesenie č. 4/2022).
Na **7**. zasadnutí **11. 7. 2022** členovia SR prerokovali a schválili Žiadosť na presun rozpočtu z KTG630 - tovary a služby do KTG620 – poistné a príspevky do poisťovní (Uznesenie č. 5/2022).
Na **8**. zasadnutí **9. 8. 2022** členovia SR prerokovali návrh pripravovaných opatrení v rámci šetrenia s energiami a na vypracovanie stratégie pre okamžité, strednodobé a dlhodobé opatrenia.
Na **9**. zasadnutí **3. 10. 2022** členovia SR schválili Žiadosť na presun rozpočtu z KTG630 - tovary a služby do KTG620 – poistné a príspevky do poisťovní (Uznesenie č. 6/2022).
10. zasadnutie bolo formou *per rollam* **8. 12. 2022** a členovia SR schválili Žiadosť na presun rozpočtu z KTG630 - tovary a služby do KTG620 – poistné a príspevky do poisťovní (Uznesenie č. 7/2022).
Rovnako aj **11**. zasadnutie bolo formou *per rollam* **22. 12. 2022** a členovia SR schválili Žiadosť na presun rozpočtu z KTG630 - tovary a služby do KTG620 – poistné a príspevky do poisťovní (Uznesenie č. 8/2022).

Činnosť Dozornej rady počas roka 2022:

Členovia Dozornej rady zasadali v priebehu roka 2022 formou *per rollam* v období **2. 2. 2022 - 15. 2. 2022.** Členovia Dozornej rady prerokovali a spísali pripomienky a vyjadrenia k vnútorným predpisom ÚMB SAV, v. v. i. Pripomienky boli zaslané predsedníčke SR.

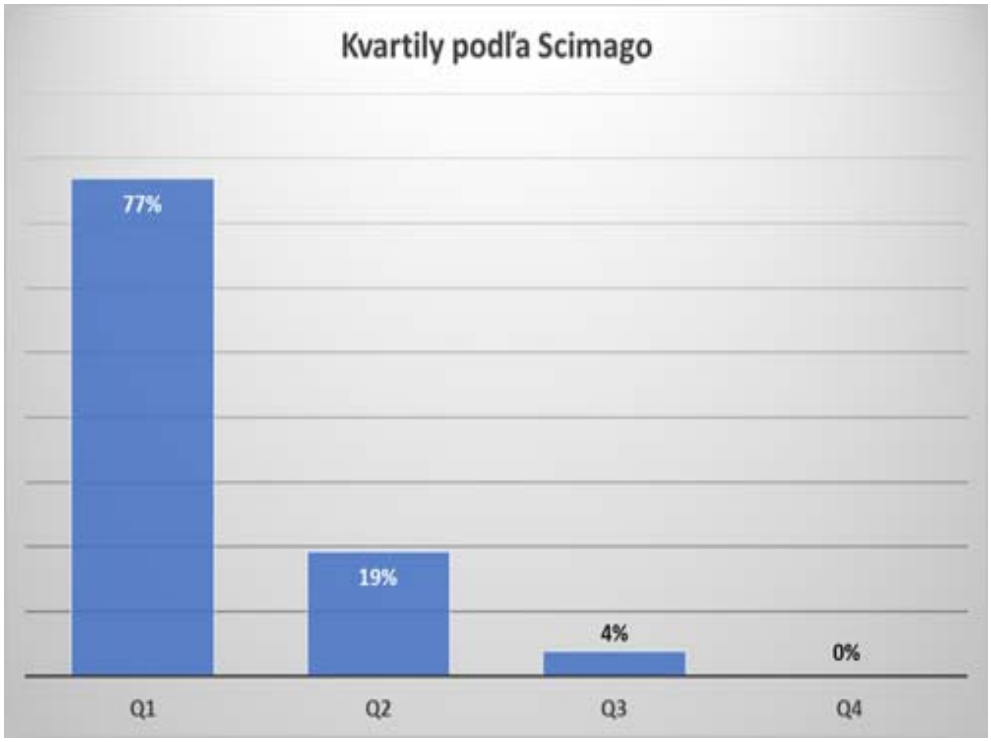
4. Prehľad výsledkov dosiahnutých v r. 2022

Výsledky dosiahnuté v r. 2022 sú uvedené v Správe o činnosti organizácie SAV za rok 2022 (Príloha)

5. Hodnotenie výsledkov výskumnej činnosti verejnej výskumnej inštitúcie a jej spôsobilosti vykonávať výskumnú činnosť vedeckou radou

Vedecká rada ÚMB SAV, v. v. i., na svojom zasadnutí dňa 26. 4. 2023 prerokovala a *per rollam* hlasovaním dňa 18. 5. 2023 schválila hodnotenie výsledkov výskumnej činnosti ÚMB SAV, v. v. i., a konštatovala, že ÚMB SAV, v. v. i., je aj naďalej spôsobilý vykonávať výskumnú činnosť.

Na ÚMB SAV, v. v. i., sa dlhodobo orientujeme na výskum, ktorý vedie k publikáciám v kvalitných zahraničných periodikách s vyšším impakt faktorom (IF) a so zameraním na lepšiu citovanosť, čo sa premieta do veľmi dobrého medzinárodného postavenia ústavu a do kvalitnej medzinárodnej spolupráce. V roku 2022 vedeckí pracovníci ústavu publikovali celkovo 26 impaktovaných vedeckých publikácií. Zaradenie časopisov podľa kvartilov potvrdzuje vysokú kvalitu našich publikácií. V 1. a 2. kvartile Scimago je 96 % našich publikácií (77 % z nich spadá do 1. kvartilu a 19 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2021 (vykazované v roku 2022) sme dosiahli 1885 ohlasov (WOS a SCOPUS), kým v predchádzajúcom roku to bolo 1442 ohlasov.



V rámci pravidelného hodnotenia vedeckých organizácií SAV za obdobie 2016-2021, ktoré prebehlo v roku 2022 a uzavrelo sa začiatkom roku 2023, sa našej organizácii podarilo dosiahnuť veľmi dobré hodnotenie B - „Výskum je viditeľný na európskej úrovni. Organizácia prispieva hodnotnými výsledkami k rozvoju vednej oblasti v Európe.“, čo predstavuje podstatné zlepšenie oproti predchádzajúcemu hodnoteniu, keď naša organizácia dosiahla stupeň C. K zlepšeniu prispela hlavne reorganizácia štruktúry vedeckých oddelení, výrazný nárast aplikačného výskumu a patentovej činnosti, vytvorenie spoločného kryštalizačného laboratória s viedenskou univerzitou, ako aj stabilný vzostup kvality a počtu vedeckých výstupov a ohlasov na ne.

Pokračovali sme v realizácii akčného plánu ústavu. Pri hodnotení pracovných skupín a pracovníkov uplatňujeme kritériá minimálnej vedeckej výkonnosti zavedené v predchádzajúcom roku a definované v našich Pravidlách hodnotenia výskumných pracovníkov. Podporujeme nielen kvalitný základný výskum, ale aj výskum s potenciálnym využitím v praxi. Vedeckí pracovníci ústavu vyvíjajú každý rok značné úsilie pri získavaní mimo-akademických prostriedkov, každoročne podávajú žiadosti o nové projekty do národných agentúr, vstupujú so žiadosťami do vedeckých programov podporovaných EÚ a projektov iných agentúr. S tým je spojené aj množstvo časovo náročnej administratívnej práce.

V rámci medzinárodného projektu Interreg SK-AU „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“, bolo vybudované prvé automatizované pracovisko štruktúrnej biológie na Slovensku. Táto iniciatíva bola ocenená kolektívnou Cenou SAV za budovanie infraštruktúry za rok 2022. Koordinátorka projektu Ing. Eva Kutejová, DrSc. bola ocenená aj Čestnou plaketou SAV Dionýza Blaškoviča. Rok 2022 bol zároveň posledným rokom riešenia tohto projektu a bol ukončený záverečným stretnutím, organizovaným pracovníkmi ÚMB SAV, v. v. i.

ÚMB SAV, v. v. i., sa aj v roku 2022 podieľal na vedeckých aktivitách súvisiacich s bojom proti pandémii COVID-19. Pracovná skupina RNDr. Imricha Baráka, DrSc., začlenená do špecifickej celosvetovej výzvy European XFEL s názvom „*New structures to fight COVID-19 solved by liquid jet SFX at the European XFEL*“, pokračovala aj v roku 2022 na riešení projektu zameraného na prípravu a analýzu kokryštálov proteáz SARS-Cov-2 s potenciálnymi inhibítormi. Skupina Mgr. Vladimíra Leksu, PhD. v spolupráci so skupinou prof. H. Stockingera na Lekárskej fakulte vo Viedni pracovala na vývoji liečiva na COVID-19 a skupina Dr. Domenica Pangalla, DrSc. pracovala na optimalizácii citlivej metódy OSN-qRT-PCR určenej na detekciu SARS-CoV-2 v odpadových vodách.

ÚMB SAV, v. v. i., pokračuje vo svojich medzinárodných vedeckých aktivitách. Je zapojený do projektu Európskeho XFEL-u (X-ray Free Electron Laser) v Hamburgu, ktorý by mal revolucionizovať štrukturálnu biológiu nielen na Slovensku, ale aj vo svete. Pracovníci ústavu pracujú v orgánoch SFX/SPB a XBI konzorcií, alebo ako vedeckí pracovníci XFEL-u. Zúčastnili sa aj na prvých meraniach po spustení prevádzky tohto svetovo unikátneho zariadenia a výsledky boli publikované v prestížnom časopise Nature Communications.

ÚMB SAV, v. v. i., je medzinárodne etablovaný aj vďaka vedeckým databázam vytvoreným a spravovaným Oddelením genomiky a biotechnológií ÚMB SAV, v. v. i. Užitočnosť týchto databáz sa neprejavuje počtom citácií, ale počtom webových prístupov. Naše databázy zaznamenali vysoký počet unikátnych webových návštevníkov – vyše 7 tisíc pre databázu phiSITE, 1700 pre viruSITE a 300 pre phiBIOTICS.

Jasným zviditeľnením medzinárodného postavenia ÚMB SAV, v. v. i., je aj skutočnosť, že mnohí naši vedeckí pracovníci sú oslovovaní editormi z renomovaných zahraničných vedeckých časopisov a v roku 2022 recenzovali 95 publikácií (WOS, Scopus). Ako experti sa zúčastňujú aj hodnotenia medzinárodných projektov.

Na národnej úrovni je ÚMB SAV, v. v. i., zapojený do projektu štrukturálnych fondov „Dlhodobý

strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom, ktorého partnermi sú GENETON s. r. o., Chemický ústav SAV, v. v. i., MEDIREX GROUP ACADEMY, n. o., POWERTEC s. r. o., Slovgen s. r. o. a Univerzitná nemocnica s poliklinikou Milosrdní bratia. Projekt sa venuje výskumu a vývoju v oblasti problematiky dedičných nádorov spôsobených Lynchovým syndrómom a predpokladaného genetického pozadia vyššieho výskytu vybraných typov nádorov v slovenskej populácii. ÚMB SAV, v. v. i., sa zaoberá štúdiom črevného mikrobiómu pacientov s kolorektálnym karcinómom a Lynchovým syndrómom.

V roku 2022 sa začala spolupráca Laboratória fylogenomickej ekológie s firmou Future Farming s.r.o. Brno, Česká republika a bolo podpísané memorandum o spolupráci na ďalšie roky. Témou je spoločný výskum enzýmových antioxidantov v aquaponických technológiách, ktoré v súčasnosti zaznamenávajú veľký rozvoj.

Skupina Apidológie a apiterapie pod vedením Ing. Juraja Majtána, DrSc. MBA, FIFST pokračovala v projekte Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a v tomto roku zaznamenala zvyšujúci sa záujem, hlavne drobných včelárov. Projekt Ing. Juraja Majtána, DrSc., MBA, FIFST s názvom "Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (Apis mellifera)" bol vybraný ako jeden z najvýznamnejších výsledkoch dosiahnutých pri riešení projektov VEGA ukončených v roku 2021. Okrem toho pracovná skupina apidológie a apiterapie získala na medzinárodnej výstave Agrokomplex v Nitre 2022 ocenenie Zlatý kosák 2022, udelený za metódu stanovenia antibakteriálneho potenciálu medu. Táto pracovná skupina bola ocenená aj Cenou za transfer technológií na Slovensku 2022, ktorú dostala za projekt „Medové laboratórium" v kategórii Počin v oblasti transferu technológií.

Dva APVV projekty boli zaradené do výberovej publikácie agentúry APVV Výskumné projekty s vynikajúcou úrovňou za rok 2022. Ide o projekt Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (APVV-16-0452), ktorého zodpovedným riešiteľom je Mgr. Vladimír Leksa, PhD. a projekt Príprava bakteriofágov na terapiu vaginálnych a močových infekcií (APVV-16-0168), ktorého zodpovednou riešiteľkou za ÚMB SAV, v. v. i., je RNDr. Gabriela Bukovská, CSc.

V roku 2022 sa ÚMB SAV, v. v. i., zapojilo do Periodického hodnotenia výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti – VER (Verification of Excellence in Research) v rámci pilotného projektu Ministerstva školstva, vedy, výskumu a športu SR v súlade s Plánom obnovy a odolnosti SR, (https://www.minedu.sk/periodicke-hodnotenie-vyskumnej-vyvojovej-umeleckej-a-dalsej-tvorivej-cinnosti/). Výsledky hodnotenia boli zverejnené na stránke MŠVVaŠ (https://ver.cvtisr.sk/vysledky/) 20. 12. 2022. Podľa hodnotenia tvorivej činnosti v prvých dvoch najvýznamnejších úrovniach (svetová a významná medzinárodná úroveň) patrí ÚMB SAV, v. v. i., v oblasti Biologických vied medzi tri najlepšie hodnotené organizácie z celkového počtu 16.

6. Ročná účtovná závierka

Ročná účtovná závierka

a) bola predložená na prerokovanie správnej rade dňa 29. 03. 2023 a správna rada sa vyjadrila dňa 29.03. 2023.
b) bola predložená na schválenie dozornej rade dňa 06. 04. 2023 a dozorná rada ju schválila dňa 25. 04. 2023

Ročná účtovná závierka bola uložená do registra účtovných závierok dňa 25. 04. 2023.

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 31. 12. 2022

Daňové identifikačné číslo	Účtovná závierka		Mesiac	Rok
2020894689	X riadna	Za obdobie od	1	2022
IČO 00166634	mimoriadna	Za obdobie do	12	2022
SK NACE 72. 19.0	priebežná (vyznačí sa x)	Bezprostredne predchádzajúce obdobie od	1	2021
		Bezprostredne predchádzajúce obdobie do	12	2021

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) (v eurocentoch) X Výkaz ziskov a strát (Úč NUJ 2-01) (v eurocentoch) X Poznámky (Úč NUJ 3-01) (v celých eurách alebo eurocentoch)

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA

Číslo: 21

PSČ: 84551

Obec: BRATISLAVA

Telefónne číslo: 259307414

E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
27. 03. 2023	. . 20	

MF SR 2021 Tlačivo vytlačené z Portálu FS Strana 1

Súvaha (Úč NUJ 1-01) IČO 00166634

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
A. NEOBEŽNÝ MAJETOK SPOLU	**r. 002 + r. 009 + r. 021**	**001**	3775909.29	2940618.99	835290.3	
A.I.	**Dlhodobý nehmotný majetok** **r. 003 až r. 008**	**002**	24444	18459	5985	
A.I.1.	Nehmotné výsledky z vývojovej a obdobnej činnosti 012 - (072+091AÚ)	003				
2.	Softvér 013 - (073+091AÚ)	004	24444	18459	5985	
3.	Oceniteľné práva 014 - (074 + 091AÚ)	005				
4.	Ostatný dlhodobý nehmotný majetok (018+ 019)-(078 + 079 + 091 AÚ)	006				
5.	Obstaranie dlhodobého nehmotného majetku (041-093)	007				
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051-095AÚ)	008				
A.II.	**Dlhodobý hmotný majetok** **r. 010 až r. 020**	**009**	3751465.29	2922159.99	829305.3	
A.II.1.	Pozemky (031)	010	63632.74		63632.74	
2.	Umelecké diela a zbierky (032)	011	14394.58		14394.58	
3.	Stavby 021 - (081 + 092AÚ)	012	1114074.76	791138.5	322936.26	
4.	Samostatné hnuteľné veci a súbory hnuteľných vecí 022 - (082 + 092AÚ)	013	2517843.21	2117341.49	400501.72	
5.	Dopravné prostriedky 023 - (083 + 092AÚ)	014	13680	13680		
6.	Pestovateľské celky trvalých porastov 025 - (085 + 092AÚ)	015				
7.	Základné stádo a ťažné zvieratá 026 - (086 + 092AÚ)	016				
8.	Drobný dlhodobý hmotný majetok 028 - (088 + 092AÚ)	017				
9.	Ostatný dlhodobý hmotný majetok 029 - (089 +092AÚ)	018				
10.	Obstaranie dlhodobého hmotného majetku (042 - 094)	019	27840		27840	
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)	020				
A.III.	**Dlhodobý finančný majetok** **r. 022 až r. 028**	**021**				
A.III.1.	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe (061- 096 AÚ)	022				
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom (062 - 096 AÚ)	023				
3.	Dlhové cenné papiere držané do splatnosti (065 - 096 AÚ)	024				
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ	025				
5.	Ostatný dlhodobý finančný majetok (069 - 096 AÚ)	026				
6.	Obstaranie dlhodobého finančného majetku (043 - 096 AÚ)	027				
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)	028				

MF SR 2021 Strana 2

Súvaha (Úč NUJ 1-01) IČO 00166634

Strana aktív		č.r.	Bežné účtovné obdobie			Bezprostredne predchádzajúce účtovné obdobie
			Brutto	Korekcia	Netto	Netto
a		b	1	2	3	4
B. OBEŽNÝ MAJETOK SPOLU	**r. 030+ r. 037+ r. 042 + r. 051**	**029**	1015704.09		1015704.09	
B.I.	**Zásoby** **r. 031 až r. 036**	**030**	1065.18		1065.18	
B.I.1.	Materiál (112 + 119) - 191	031	1065.18		1065.18	
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122) - (192 +193)	032				
3.	Výrobky (123 - 194)	033				
4.	Zvieratá (124 - 195)	034				
5.	Tovar (132 + 139) - 196	035				
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)	036				
B.II.	**Dlhodobé pohľadávky** **r. 038 až r. 041**	**037**				
B.II.1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ	038				
2.	Ostatné pohľadávky (315 AÚ - 391AÚ)	039				
3.	Pohľadávky voči účastníkom združení (358AÚ - 391AÚ)	040				
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ	041				
B.III.	**Krátkodobé pohľadávky** **r. 043 až r. 050**	**042**	800459.83		800459.83	
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ	043	5427.9		5427.9	
2.	Ostatné pohľadávky (315 AÚ - 391 AÚ)	044				
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	045		x		
4.	Daňové pohľadávky (341 až 345)	046		x		
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+ 348)	047	794947	x	794947	
6.	Pohľadávky voči účastníkom združení (358 AÚ - 391AÚ)	048				
7.	Spojovací účet pri združení (396 - 391AÚ)	049				
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ	050	84.93		84.93	
B.IV.	**Finančné účty** **r. 052 až r. 056**	**051**	214179.08		214179.08	
B.IV.1.	Pokladnica (211 + 213)	052		x		
2.	Bankové účty (221 AÚ + 261)	053	214179.08	x	214179.08	
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)	054		x		
4.	Krátkodobý finančný majetok(251+ 253 + 255AÚ+ 256 + 257) - 291AÚ	055				
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)	056				
C. ČASOVÉ ROZLÍŠENIE SPOLU	**r. 058 a r. 059**	**057**	11025.79		11025.79	
C.1.	Náklady budúcich období (381)	058	11025.79		11025.79	
2.	Príjmy budúcich období (385)	059				
MAJETOK SPOLU	**r. 001 + r. 029 + r. 057**	**060**	4802639.17	2940618.99	1862020.18	

MF SR 2021 Strana 3

Súvaha (Úč NUJ 1-01) IČO 00166634

Strana pasív			č.r.	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
a			b	5	6
A. VLASTNÉ IMANIE		**r. 062+ r. 067 + r. 071 + r. 072**	**061**	138044.21	
A.I.	**Imanie a fondy**	**r. 063 až r. 066**	**062**	68430.96	
A.I.1.	Základné imanie	(411)	063	68430.96	
2.	Fondy tvorené podľa osobitných predpisov	(412)	064		
3.	Fond reprodukcie	(413)	065		
4.	Oceňovacie rozdiely z precenenia kapitálových účastín	(415)	066		
A.II.	**Fondy tvorené zo zisku**	**r. 068 až r. 070**	**067**		
A.II.1.	Rezervný fond	(421)	068		
2.	Fondy tvorené zo zisku	(423)	069		
3.	Ostatné fondy	(427)	070		
A.III.	**Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)**		**071**	61169.8	
A.IV.	**Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)**		**072**	8443.45	
B. ZÁVÄZKY		**r. 074 + r. 078 + r. 086 + r. 096**	**073**	153901.9	
B.I.1.	**Rezervy**	**r. 075 až r. 077**	**074**		
2.	Rezervy zákonné	(451AÚ)	075		
3.	Ostatné rezervy	(459AÚ)	076		
4.	Krátkodobé rezervy	(323 + 451AÚ + 459AÚ)	077		
B.II.	**Dlhodobé záväzky**	**r. 079 až r. 085**	**078**	68733.42	
B.II.1.	Záväzky zo sociálneho fondu	(472)	079	8779.42	
2.	Vydané dlhopisy	(473 - 255 AÚ)	080		
3.	Záväzky z nájmu	(474 AÚ)	081		
4.	Dlhodobé prijaté preddavky	(475)	082		
5.	Dlhodobé nevyfakturované dodávky	(476 AÚ)	083		
6.	Dlhodobé zmenky na úhradu	(478)	084		
7.	Ostatné dlhodobé záväzky	(373 AÚ + 479 AÚ)	085	59954	
B.III.	**Krátkodobé záväzky**	**r. 087 až r. 095**	**086**	85168.48	
B.III.1.	Záväzky z obchodného styku	(321 až 326) okrem 323	087	84823.59	
2.	Záväzky voči zamestnancom	(331+ 333)	088		
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)		089		
4.	Daňové záväzky	(341 až 345)	090	344.89	
5.	Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy	(346+348)	091		
6.	Záväzky z upísaných nesplatených cenných papierov a vkladov (367)		092		
7.	Záväzky voči účastníkom združení	(368)	093		
8.	Spojovací účet pri združení	(396)	094		
9.	Ostatné záväzky	(379 + 373 AÚ + 474 AÚ +476AÚ + 479 AÚ)	095		
B.IV.	**Bankové úvery a iné výpomoci a pôžičky**	**r. 097 až r. 099**	**096**		
B.IV.1.	Dlhodobé bankové úvery	(461AÚ)	097		
2.	Bežné bankové úvery	(231+ 232 + 461AÚ)	098		
3.	Prijaté krátkodobé finančné výpomoci	(241+ 249)	099		
C. ČASOVÉ ROZLÍŠENIE SPOLU		**r. 101 až r. 103**	**100**	1570074.07	
C.I.1.	Výdavky budúcich období	(383)	101		
2.	Výnosy budúcich období krátkodobé	(384 AÚ)	102	485064.65	
3.	Výnosy budúcich období dlhodobé	(384 AÚ)	103	1085009.42	
SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLÍŠENIA		**r.061+ r.073 + r.100**	**104**	1862020.18	

MF SR 2021 Strana 4

Výkaz ziskov a strát (Úč NUJ 2-01) IČO 00166634

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	01	242606.09		242606.09	
502	Spotreba energie	02	27160.4		27160.4	
504	Predaný tovar	03				
511	Opravy a udržiavanie	04	44764.83		44764.83	
512	Cestovné	05	23332.62		23332.62	
513	Náklady na reprezentáciu	06	595.3		595.3	
518	Ostatné služby	07	94164.7		94164.7	
521	Mzdové náklady	08	1208820.93		1208820.93	
524	Zákonné sociálne poistenie a zdravotné poistenie	09	410422.51		410422.51	
525	Ostatné sociálne poistenie	10				
527	Zákonné sociálne náklady	11	48379.02		48379.02	
528	Ostatné sociálne náklady	12				
531	Daň z motorových vozidiel	13				
532	Daň z nehnuteľností	14	73.27		73.27	
538	Ostatné dane a poplatky	15	2681.36		2681.36	
541	Zmluvné pokuty a penále	16	1000		1000	
542	Ostatné pokuty a penále	17				
543	Odpísanie pohľadávky	18				
544	Úroky	19				
545	Kurzové straty	20				
546	Dary	21				
547	Osobitné náklady	22				
548	Manká a škody	23				
549	Iné ostatné náklady	24	132385.51		132385.51	
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	145234.23		145234.23	
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26				
553	Predané cenné papiere	27				
554	Predaný materiál	28				
555	Náklady na krátkodobý finančný majetok	29				
556	Tvorba fondov	30				
557	Náklady na precenenie cenných papierov	31				
558	Tvorba a zúčtovanie opravných položiek	32				
561	Poskytnuté príspevky organizačným zložkám	33				
562	Poskytnuté príspevky iným účtovným jednotkám	34				
563	Poskytnuté príspevky fyzickým osobám	35				
565	Poskytnuté príspevky z podielu zaplatenej dane	36				
567	Poskytnuté príspevky z verejnej zbierky	37				
Účtová trieda 5 spolu r. 01 až r. 37		38	2381620.77		2381620.77	

MF SR 2021 Strana 5

Výkaz ziskov a strát (Úč NUJ 2-01) IČO 00166634

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Zdaňovaná	Spolu	
a	b	c	1	2	3	4
601	Tržby za vlastné výrobky	39				
602	Tržby z predaja služieb	40	19787.15		19787.15	
604	Tržby za predaný tovar	41				
611	Zmena stavu zásob nedokončenej výroby	42				
612	Zmena stavu zásob polotovarov	43				
613	Zmena stavu zásob výrobkov	44				
614	Zmena stavu zásob zvierat	45				
621	Aktivácia materiálu a tovaru	46				
622	Aktivácia vnútroorganizačných služieb	47				
623	Aktivácia dlhodobého nehmotného majetku	48				
624	Aktivácia dlhodobého hmotného majetku	49				
641	Zmluvné pokuty a penále	50				
642	Ostatné pokuty a penále	51				
643	Platby za odpísané pohľadávky	52				
644	Úroky	53				
645	Kurzové zisky	54				
646	Prijaté dary	55				
647	Osobitné výnosy	56				
648	Zákonné poplatky	57				
649	Iné ostatné výnosy	58	681.59		681.59	
651	Tržby z predaja dlhodobého nehmotného majetku a dlhodobého hmotného majetku	59				
652	Výnosy z dlhodobého finančného majetku	60				
653	Tržby z predaja cenných papierov a podielov	61				
654	Tržby z predaja materiálu	62				
655	Výnosy z krátkodobého finančného majetku	63				
656	Výnosy z použitia fondu	64				
657	Výnosy z precenenia cenných papierov	65				
658	Výnosy z nájmu majetku	66	6356.4		6356.4	
661	Prijaté príspevky od organizačných zložiek	67				
662	Prijaté príspevky od právnických osôb	68	1200		1200	
663	Prijaté príspevky od fyzických osôb	69				
664	Prijaté členské príspevky	70				
665	Príspevky z podielu zaplatenej dane	71				
667	Prijaté príspevky z verejných zbierok	72				
691	Dotácie	73	2362383.97		2362383.97	
Účtová trieda 6 spolu	**r. 39 až r. 73**	**74**	2390409.11		2390409.11	
Výsledok hospodárenia pred zdanením	**r. 74 - r. 38**	**75**	8788.34		8788.34	
591	Daň z príjmov	76		344.89	344.89	
595	Dodatočné odvody dane z príjmov	77				
Výsledok hospodárenia po zdanení	**(r. 75 - (r. 76 + r. 77)) (+/-)**	**78**	8788.34	–344.89	8443.45	

MF SR 2021 Strana 6

UZNUJv21_1

Úč NUJ

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 31.12.2022

Daňové identifikačné číslo	Účtovná závierka		Mesiac Rok
2020894689	X riadna	Za obdobie	od 1 2022
IČO 00166634	mimoriadna		do 12 2022
SK NACE 72.19.0	priebežná (vyznačí sa x)	Bezprostredne predchádzajúce obdobie	od 1 2021
			do 12 2021

Priložené súčasti účtovnej závierky

X Súvaha (Úč NUJ 1-01) (v eurocentoch)

X Výkaz ziskov a strát (Úč NUJ 2-01) (v eurocentoch)

X Poznámky (Úč NUJ 3-01) (v celých eurách alebo eurocentoch)

Názov účtovnej jednotky

Ústav molekulárnej biológie SAV v.v.i

Sídlo účtovnej jednotky

Ulica: DÚBRAVSKÁ CESTA

Číslo: 21

PSČ: 84551

Obec: BRATISLAVA

Telefónne číslo: 259307414

E-mailová adresa: PAVOL.PATAKY@SAVBA.SK

Zostavená dňa:	Schválená dňa:	Podpisový záznam štatutárneho orgánu alebo člena štatutárneho orgánu účtovnej jednotky:
27.03.2023	25.04.2023	[redacted]

7. Výrok štatutárneho audítora k ročnej účtovnej závierke, ak sa k ročnej účtovnej závierke za príslušný rok vyhotovuje správa audítora

K ročnej účtovnej závierke za rok 2022 nebola vyhotovená správa audítora.

8. Prehľad príjmov a výdavkov

Prehľad príjmov a výdavkov ÚMB SAV, v. v. i., je spracovaný v nasledujúcich dvoch tabuľkách.

Tabuľka: Prehľad príjmov organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**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)	1 738 503	47 640	990 170	343 33	
z toho: VEGA	113 895				
MVTS výskumné projekty	41 996			1 737	
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	7 371			459	
Vedecká výchova (štipendiá)	136 338				
OTAS (630)	36 756				
2. ŠF EÚ vr. fin. zo ŠR	206 278		81 782	28 413	68 884
3. medzinárodné grantové projekty	77 911	17 760	18 562	7 050	
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	430 800		91 411	31 919	98 569
z toho: APVV	430 800		91 411	31 919	98 569
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	27 025				
z toho: príjmy z prenájmu	6 356				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	18 787				

Tabuľka: Prehľad výdavkov organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**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	2 394 027	1 690 863	637 078	66 086	70,63
z toho: mzdy (610)	1 181 926	990 170	173 193	18 563	83,78
vedecká výchova štipendiá (640)	136 338	136 338			100
poistné a príspevok do poisťovní (620)	410 423	343 033	60 331	7 059	83,58
tovary a služby (630)	468 283	197 822	236 100	34 361	42,24
transfery partnerom projektov (640)	167 453		167 453		0
2. Kapitálové výdavky	68 394	47 640		20 754	69,66
z toho: obstarávanie kapitálových aktív	68 394	47 640		20 754	69,66
kapitálové transfery					

9. Pohyb a konečný stav majetku

Počiatočný stav majetku k 1.1.2022 :

MAJETOK SPOLU 4 802 639,17 EUR

Pohyb majetku - korekcia

- 2 940 618,99 EUR

Konečný stav majetku k 31.12.2022

1 862 020,18 EUR

10. Opatrenia prijaté na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov

Nemáme

11. Ďalšie údaje

Nemáme

Výročnú správu o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 spracoval(i):

RNDr. Lucia Bocánová, PhD.
RNDr. Gabriela Bukovská, CSc.
Mgr. Ľuboš Kľučár, PhD.
Ing. Eva Kutejová, DrSc.
Ing. Juraj Majtán,DrSc., MBA, FIFST.
Mgr. Pavol Pataky

Stanovisko Správnej rady ÚMB SAV, v. v. i.

Dňa 14. 6. 2023 SR ÚMB SAV, v. v. i., odporúča konečné znenie Výročnej správy o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 bez pripomienok.

Stanovisko Vedeckej rady ÚMB SAV, v. v. i.

Dňa 16. 6. 2023 VR ÚMB SAV, v. v. i., vyjadrila súhlas s predloženým návrhom Výročnej správy o činnosti a hospodárení verejnej výskumnej inštitúcie za rok 2022 bez pripomienok.

Stanovisko Dozornej rady ÚMB SAV, v. v. i.

Dňa 26. 6. 2023 DR ÚMB SAV, v. v. i., predložené materiál prerokovala, jednomyseľne súhlasí s Výročnou správou a nemá žiadne pripomienky.

Bratislava 13. 07. 2023

Eva Kutejová Digitálne podpísal Eva Kutejová
Dátum: 2023.07.13 12:43:52
+02'00'

.....

Ing. Eva Kutejová, DrSc., v. r.
riaditeľka verejnej výskumnej inštitúcie

P R Í L O H A

Ústav molekulárnej biológie SAV, v. v. i.

Správa o činnosti organizácie SAV za rok 2022

Bratislava
január 2023

Obsah

1. Základné údaje o organizácii
2. Vedecká činnosť
3. Doktorandské štúdium, iná pedagogická činnosť a budovanie ľudských zdrojov pre vedu a techniku
4. Medzinárodná vedecká spolupráca
5. Koncepcia dlhodobého rozvoja organizácie
6. Spolupráca s VŠ a inými subjektmi v oblasti vedy a techniky
7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné org.
9. Vedecko-organizačné a popularizačné aktivity
10. Činnosť knižnično-informačného pracoviska
11. Aktivity v orgánoch SAV
12. Hospodárenie organizácie
13. Nadácie a fondy pri organizácii SAV
14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti
15. Iné významné činnosti organizácie SAV
16. Vyznamenania, ocenenia a ceny udelené organizácii a pracovníkom organizácie SAV
17. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
18. Problémy a podnety pre činnosť SAV

PRÍLOHY

A Zoznam zamestnancov a doktorandov organizácie k 31.12.2022
B Projekty riešené v organizácii
C Publikačná činnosť organizácie
D Údaje o pedagogickej činnosti organizácie
E Medzinárodná mobilita organizácie
F Vedecko-popularizačná činnosť pracovníkov organizácie SAV

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav molekulárnej biológie SAV, v. v. i.
Riaditeľ: Ing. Eva Kutejová, DrSc.
1. zástupca riaditeľa: Ing. Daniela Krajčíková, CSc.
2. zástupca riaditeľa: Ing. Anna Varcholová
Vedecký tajomník: RNDr. Lucia Bocánová, PhD.
Predseda vedeckej rady: Mgr. Ľuboš Kľučár, PhD.
Člen Snemu SAV: Mgr. Ľuboš Kľučár, PhD.
Adresa: Dúbravská cesta 21, 845 51 Bratislava 45

http://www.imb.savba.sk/

Tel.: 02 5930 7411
E-mail: umbidir@savba.sk

Názvy a adresy organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Vedúci organizačných zložiek a detašovaných pracovísk:
Organizačné zložky: nie sú
Detašované pracoviská: nie sú

Členovia Snemu SAV za organizačné zložky:
nie sú

Typ organizácie: Verejná výskumná inštitúcia od roku 2022

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	73	22	51	3	9	71	64.99	51.83	7.05
Vedeckí pracovníci	44	18	26	2	5	42	41.27	41.27	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	13	1	12	1	4	13	9.13	7.56	4.05
Odborní pracovníci VŠ (ostatní zamestnanci[2])	4	0	4	0	0	4	3.09	0	0
Odborní pracovníci ÚS	5	0	5	0	0	5	4.5	3	3
Ostatní pracovníci	7	3	4	0	0	7	7	0	0

[1] odmeňovaní podľa 553/2003 Z.z., príloha č. 5
[2] odmeňovaní podľa 553/2003 Z.z., príloha č. 3 a č. 4

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2022 (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 31.12.2022 (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 31.12.2022)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	6	12	1	0	6	7	5
Ženy	1	25	0	0	1	17	8

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

Veková štruktúra (roky)	**< 31**		**31-35**		**36-40**		**41-45**		**46-50**		**51-55**		**56-60**		**61-65**		**> 65**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Muži	1	1.0	1	1.0	2	1.1	3	3.0	2	2.0	1	1.0	2	2.0	5	5.0	0	0.0
Ženy	6	4.1	3	3.0	3	3.0	4	4.0	5	5.0	1	1.0	3	3.0	9	9.0	4	4.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov
B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2022

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	50.0	49.2	49.5
Ženy	49.1	48.2	48.8
Spolu	49.4	48.6	49.0

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

Od 1.1.2022 prešiel Ústav molekulárnej biológie SAV na novú organizačno-hospodársku formu, verejnú výskumnú inštitúciu, (v. v. i.).
Správna rada Ústavu molekulárnej biológie SAV, v. v. i. bola zvolená v zložení Ing. Eva Kutejová, DrSc., RNDr. Gabriela Bukovská, CSc., Mgr. Vladimír Pevala, PhD., Ing. Daniela Krajčíková, CSc. a Ing. Anna Varcholová.

V priebehu roka sa uskutočnili ešte dvakrát doplňujúce voľby do Správnej rady ÚMB SAV, v. v. i., keď po odchode do dôchodku a odstúpení Ing. Anny Varcholovej bola zvolená Mgr. Zuzana Juríková. Po jej odstúpení bola v novembri v doplňujúcich voľbách zvolená Mgr. Mária Bučková, PhD. V marci sa uskutočnili voľby do Vedeckej rady Ústavu molekulárnej biológie SAV, v. v. i., ktorej internými členmi sa stali Mgr. Ľuboš Kľučár, PhD., RNDr. Ján Kormanec, DrSc., Ing. Juraj Majtán, DrSc., prof. Ing. Štefan Janeček, DrSc., a externými členmi Ing. Zuzana Ciesarová, CSc., prof. RNDr. Hana Drahovská, PhD. a prof. RNDr. Ľubomír Tomáška, DrSc. Členovia Dozornej rady ÚMB SAV, v. v. i. v zložení prof. RNDr. Ľubica Lacinová, DrSc., doc. RNDr. Anton Horváth, CSc. a Ing. Veronika Púčiková boli vymenovaní Predsedníctvom SAV.

Správna rada ÚMB SAV, v. v. i. vypracovala a pripravila v spolupráci s Vedeckou radou ÚMB SAV, v. v. i. a predstaviteľmi odborovej organizácie ZO OZ SAV pri Ústave molekulárnej biológie ÚMB SAV, v. v. i. nové vnútorné predpisy organizácie, ku ktorým sa okrem Vedeckej rady vyjadrila aj Dozorná rada ÚMB SAV, v. v. i. Finálne znenie vnútorných predpisov organizácie schválila Správna rada ÚMB SAV, v. v. i.

V roku 2022 sa uskutočnila akreditácia všetkých ústavov SAV. Výsledkom akreditácie Ústavu molekulárnej biológie SAV, v. v. i. bolo dosiahnutie významného zlepšenia v hodnotení našej organizácie a posunuli sme sa z kategórie C (Výskum má pevné základy a prispel k poznaniu v danej oblasti na európskej úrovni. Organizácia je viditeľná na národnej úrovni) do kategórie B (Výskum je viditeľný na európskej úrovni. Organizácia prispela hodnotnými výsledkami k rozvoju vednej oblasti v Európe).

V roku 2022 sa organizačná štruktúra Ústavu molekulárnej biológie SAV, v. v. i. nezmenila, ani nedošlo k žiadnym významným zmenám vo vedeckom zameraní ústavu. V tomto roku nastali zmeny vo vedení Ekonomického oddelenia, pretože Ing. Anna Varcholová odišla do dôchodku. Funkciu vedúcej prebrala Mgr. Zuzana Juríková, ktorá však ukončila pracovný pomer ešte v skúšobnej dobe. Nový vedúci Ekonomického oddelenia Mgr. Pavol Pataky nastúpi v januári 2023. Okrem toho nastali aj ďalšie personálne zmeny, do dôchodku odišla RNDr. Dagmar Homerová, CSc., jej miesto bolo obsadené Mgr. Filipom Opaterným, ktorý bol prijatý aj na externú formu PhD. štúdia. Na rodičovskú dovolenku odišli Mgr. Romana Kalianková Chovanová, PhD. a Mgr. Veronika Bellová a boli prijaté dve pracovníčky na ich zastupovanie, Mgr. Andrea Vetráková a Mgr. Diana Hubertová. Okrem toho bola prijatá na skrátený pracovný úväzok na Ekonomické oddelenie Ing. Eva Okoličányiová.

V rámci riešenia projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom“ bola prijatá Mgr. Jelena Pavlović , PhD. po obhájení jej dizertačnej práce na ÚMB SAV, v. v. i.

V roku 2022 sa celková pandemická situácia, ktorá vznikla v dôsledku výskytu koronavírusu, zlepšila, pokračovali sme však v niektorých preventívnych opatreniach, ktorých cieľom bolo zabrániť šíreniu ochorenia COVID-19. Išlo hlavne o organizáciu stretnutí Ústavnej rady a ústavných seminárov formou online.

V roku 2022 sa podarilo uskutočniť rekonštrukciu podlahy chodieb a schodišťa v budove A ÚMB SAV, v. v. i.. Okrem toho bol pripravený projekt na zateplenie budovy B a tiež sa pripravovala výmena plynových kotlov, ktorá sa naplánovala na január 2023.

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
	A	B	Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	13	1	114799	114799	-	-	3950	-
2. Projekty APVV	9	7	-	-	328594	233893	-	94471
3. Projekty EŠIF/OP ŠF	0	1	-	-	-	-	-	98724
4. Projekty SASPRO, MoRePro, IMPULZ	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	1900	1900	-	-	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2022

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2022	-	3	6
2. Projekty výziev EŠIF podané r. 2022	Bratislava		
	Regióny		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2022

Tabuľka 2c Medzinárodné projekty riešené v roku 2022

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
			A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
	A	B	Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	0	-	-	-	-	-	-
2. Projekty ERA.NET, ESA, JRP	0	0	-	-	-	-	-	-
3. Projekty COST	0	1	-	-	-	-	-	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	1	0	-	-	30722	30722	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	1	1	-	-	24996	24996	-	17000
8. Podpora MVTS z národných zdrojov okrem SAV (APVV a iné)	0	0	-	-	-	-	-	-
9. SAS-UPJŠ ERC Visiting Fellowship Grants	0	0	-	-	-	-	-	-
10. Iné projekty	0	0	-	-	-	-	-	-

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

2.2.2. Medzinárodné projekty Horizont Európa podané v roku 2022

Tabuľka 2d Počet projektov Horizont Európa v roku 2022

	A	B
Počet podaných projektov Horizont Európa	0	0

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

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

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

V roku 2023 sa Ústav molekulárnej biológie SAV, v. v. i. plánuje zapojiť do výzvy Horizont Creative Europe a Interreg Central Europe, prípadne do ďalších aktuálnych výziev.

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2022

Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku – podľa možnosti by nemal byť zredukovaný na názov/nadpis publikačného výstupu.

2.3.1. Výsledky na báze základného výskumu

A. Stabilný vektor na efektívnu produkciu heterológnych proteínov a sekundárnych metabolitov v streptomycétach

Autori (za ÚMB SAV, v. v. i.): R. Nováková, D. Homerová, D. Csolleiová, B. Řežuchová, R. Javorová, B. Ševčíková, Ľ. Fecková, J. Kormanec.

Streptomycéty sú významnými producentmi veľkého množstva antibiotík. Ich genómy obsahujú obrovské množstvo génových klastrov neznámych antibiotík, ktoré nie sú v laboratórnych podmienkach exprimované. Jednou z ciest využitia tohto potenciálu je ich heterologická expresia v optimalizovaných kmeňoch a expresných systémoch. Za týmto účelom sme optimalizovali kmeň *Streptomyces lavendulae* subsp. *lavendulae* CCM 3239 s jeho plazmidom pSA3239 ako stabilným vektorovým systémom. Tento systém sme testovali pomocou reportérových génov mCherry a gusA, pričom ich produkcia bola štvornásobne vyššia v pSA3239 ako v chromozóme tohto kmeňa, v súlade s vyšším počtom kópií pSA3239. Génový klaster pre antibiotikum aktinorodín sme integrovali do pSA3239. Avšak výsledný kmeň produkoval veľmi nízke množstvá aktinorodínu. Jeho hladina sa dramaticky zvýšila po integrácii génu pre jeho pozitívny regulátor pod kontrolou silného promótora do tohto kmeňa pomocou fágového integračného systému.

Projekty

1. APVV-19-0009 – „Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie".

Výstupy

1. NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - JAVOROVÁ, Rachel - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. A stable vector for efficient production of heterologous proteins and secondary metabolites in streptomycetes. In Applied Microbiology and Biotechnology, 2022, vol. 106, pp. 7285-7299. (2021: 5.560 - IF, Q1 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-022-12187-4 (APVV-

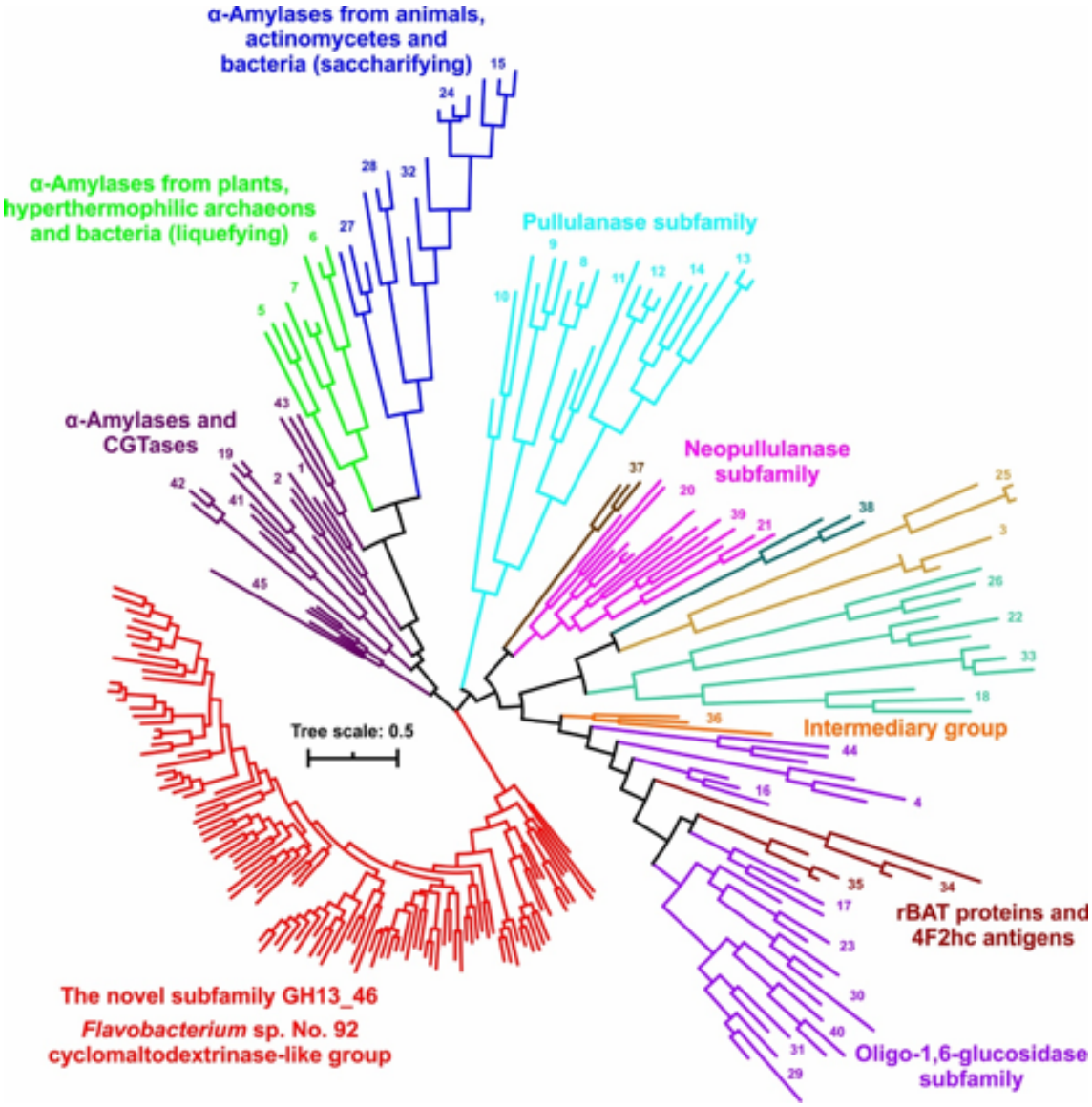
19–0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie. VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

2. NOVÁKOVÁ, Renáta - MINGYAR, Erik - FECKOVÁ, Ľubomíra - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - JAVOROVÁ, Rachel - KORMANEC, Ján**. A new family of transcriptional regulators activating biosynthetic gene clusters for secondary metabolites. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 2455. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms23052455 (APVV–0203–11 : Molekulárne mechanizmy biosyntézy, regulácie a horizontálneho prenosu génov. APVV-19-0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie. VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

B. Definovanie novej podrodiny GH13_46 v alfa-amylázovej rodine GH13 v databáze CAZy

Autori (za ÚMB SAV, v. v. i.): Š. Janeček, F. Mareček

Databáza CAZy (http://www.cazy.org/) je od konca minulého storočia celosvetovo rešpektovaná databáza klasifikácie enzýmov aktívnych voči sacharidom (Carbohydrate-Active enZymes). Rodina glykozidových hydroláz GH13 v nej predstavuje hlavnú alfa-amylázovú rodinu s viac ako 145 tisíc sekvenciami a 30 rôznymi enzýmovými špecificitami. V roku 2006 bola rodina GH13 oficiálne rozdelená do prvých 35 podrodín, pričom ďalšie sú vytvárané podľa aktuálnych vedeckých poznatkov. Na základe detailnej *in silico* analýzy viac ako 100 proteínov reprezentovaných cyklomaltodextrinázou z *Flavobacterium* sp. No. 92 bolo navrhnuté etablovať novú GH13 podrodinu. Jej členovia obsahujú na svojom N-konci bližšie nešpecifikovanú doménu typu tzv. imunoglobulínového foldu a úsek MPDLN v oblasti konzervovaného sekvenčného regiónu 5. Táto skupina vytvára na evolučnom strome presvedčivý klaster, ktorý je dobre separovaný od ostatných GH13 podrodín. Novej podrodine bolo v databáze CAZy oficiálne pridelené číslo GH13_46.



Projekty

1. VEGA 2/0146/21 -Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...?

Výstupy

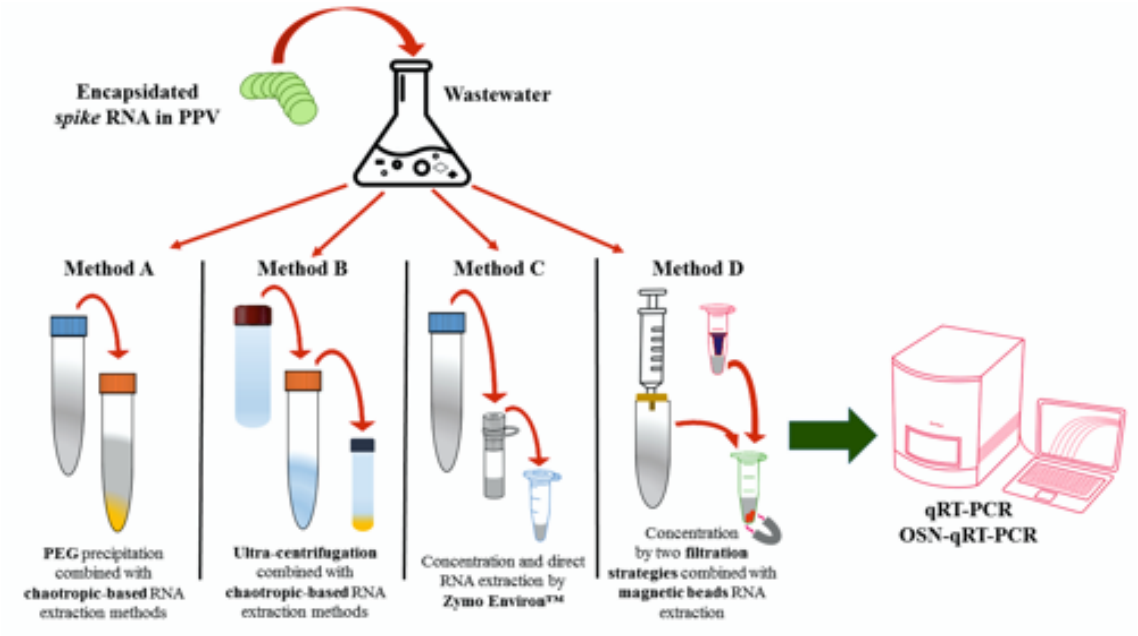
1. MAREČEK, Filip - JANEČEK, Štefan**. A Novel Subfamily GH13_46 of the alpha-Amylase Family GH13 Represented by the Cyclomaltodextrinase from Flavobacterium sp. No. 92. In Molecules. - Basel : MDPI AG, 2022, vol. 27, iss. 24, art. no 8735. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules27248735 (VEGA č. 2/0146/21 : Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...?)

2.3.2. Výsledky aplikačného typu

A. Citlivý protokol na detekciu SARS-CoV-2 v prostredí odpadových vôd

Autori (za ÚMB SAV, v. v. i.): M. Rusková, M. Bučková, A. Puškárová, D. Pangallo

Vírusovým pandémiám sa v budúcnosti nebude možné vyhnúť a pandémia SARS-CoV-2 je toho len príkladom. Preto je dôležité vyvinúť citlivý systém dohľadu schopný monitorovať prítomnosť potenciálnych patogénnych činiteľov. Prostredie splaškových a odpadových vôd sa ukázalo ako vhodný cieľ pre takýto druh analýzy. V tejto štúdii bol ako prvý skonštruovaný modelový vírusový systém obsahujúci fragment genómu SARS-CoV-2 kódujúci Spike proteín. Enkapsulovaná napodobňujúca S RNA (ESRM) sa použila na naočkovanie vzoriek odpadovej vody, aby sa vyhodnotilo opätovné oživenie vírusových častíc pomocou štyroch rôznych metód koncentrácie/extrakcie vírusovej RNA. Účinnosť jednotlivých prístupov bola hodnotená použitím kvantitatívnej reverznej transkripčnej PCR (qRT-PCR) a jednokrokovej jednoskúmavkovej nested kvantitatívnej reverznej transkripčnej PCR (OSN-qRT-PCR). Na detekciu vírusov vo vzorkách odpadových vôd s nízkou vírusovou záťažou priniesol test OSN-qRT-PCR najuspokojivejšie výsledky a najvyššiu citlivosť.



Projekty

1. SAS - MOST (Taiwan) Joint Research Projects; MOST 108-2221-E-006-160-MY3; Water/wastewater epidemiology: Development of robust and reliable molecular detection systems for surveillance of disease outbreaks (PathogenTracker).

Výstupy

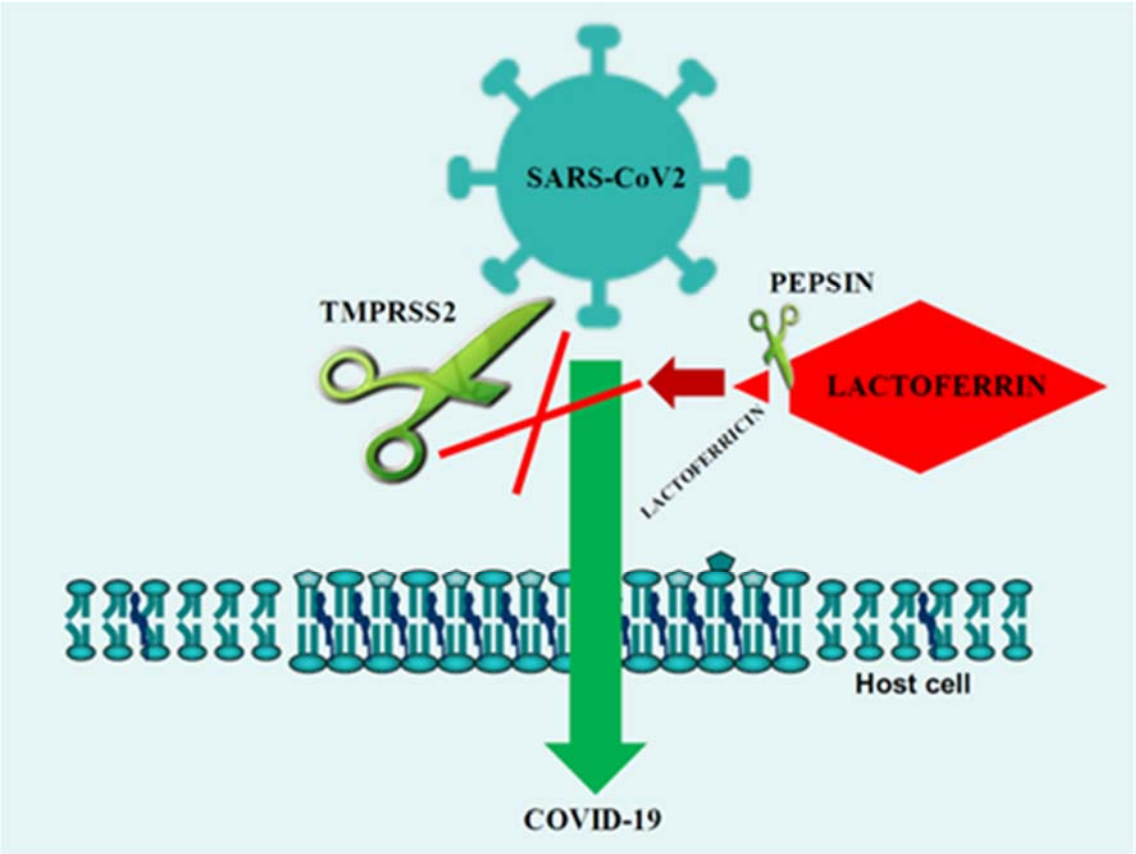
1. RUSKOVÁ, Magdaléna - BUČKOVÁ, Mária - ACHS, Adam - PUŠKÁROVÁ, Andrea - WU, J.H. - KUCHTA, T. - ŠUBR, Zdeno W. - PANGALLO, Domenico**. Useful molecular tools for facing next pandemic events: Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in wastewater environment. In International Journal of Hygiene and Environmental Health, 2022, vol. 245, art. no. 114017. (2021: 7.401 - IF, Q1 - JCR, 1.474 - SJR, Q1 - SJR). ISSN 1438-4639. Dostupné na: https://doi.org/10.1016/j.ijheh.2022.114017 (VEGA 2/0003/22 : Rastlinné systémy pre tranzientnú expresiu látok peptidovej povahy za účelom prípravy vakcín proti vírusovým ochoreniam)

2.3.3. Výsledky na báze medzinárodnej spolupráce

A. Blokáda primingu SARS-CoV-2 sprostredkovaného TMPRSS2 laktoferricínom

Autori (za ÚMB SAV, v. v. i.): G. Ondrovičová, R. Praženicová, V. Leksa

Laktoferín, člen laktotransferínovej rodiny glykoproteínov viažúcich železo, je prítomný vo väčšine ľudských exokrinných tekutín, najmä v materskom mlieku. Laktoferín vykazuje množstvo biologických aktivít, vrátane sekvestrácie železa a modulácie imunitných buniek. Nedávno sme zhromaždili dôkazy o tom, že laktoferín priamo viaže a blokuje plazminogén, serínovú proteázu, ktorá sa fyziologicky podieľa na fibrinolýze a migrácii buniek, ale ktorá sa môže podieľať aj na patologických stavoch, ako je napr. šírenie nádorových buniek, invázia baktérií alebo priming vírusov. Vo výskume sme pokračovali a objavili sme, že laktoferín dokáže blokovať aj infekciu SARS-CoV-2, ktorý spôsobuje COVID-19. Po prvé, prírodné a syntetické peptidy odvodené od laktoferínu blokujú aktivitu transmembránovej proteázy TMPRSS2, homológu plazminogénu, ktorá je zodpovedná za proteolytickú aktiváciu spike proteínu SARS-CoV-2. Po druhé, laktoferín a odvodené peptidy blokujú interakciu spike proteínu s proteoglykánmi heparánsulfátu pri pripojení vírusu na bunku. Vďaka tomu je laktoferín lacným a široko dostupným kandidátom na doplnkovú liečbu pri liečbe COVID-19.



Projekty

1. APVV-20-0513 - The double-edged sword of the plasminogen system: from homeostasis maintenance to COVID-19.
2. VEGA 2/0152/21- Lactoferrin and lactoferricin as natural plasmin inhibitors: from the structure resolution to therapeutic applications.

Výstupy

1. OHRADANOVA-REPIC, Anna** - ŠKRABANA, Rostislav - GEBETSBERGER, Laura - TAJTI, Gabor - BARÁTH, Peter - ONDROVIČOVÁ, Gabriela - PRAŽENICOVÁ, Romana - JANTOVA, Nikola - HRASNOVA, Patricia - STOCKINGER, Hannes - LEKSA, Vladimír**. Blockade of TMPRSS2-mediated priming of SARS-CoV-2 by lactoferricin. In

Frontiers in Immunology, 2022, vol. 13, art. no. 958581. (2021: 8.786 - IF, Q1 - JCR, 2.331 - SJR, Q1 - SJR). ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2022.958581 (VEGA 2/0152/21 : Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie. APVV-20-0513 : Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19)

B. Charakterizácia chromátového transportéra *Bacillus pseudomycoides*

Autori (za ÚMB SAV, v. v. i.): Z. Chromiková, R. Kalianková Chovanová, I. Barák

Chróm celosvetovo kontaminuje životné prostredie a Cr(VI) je ľudský karcinogén skupiny I. Len niektoré bakteriálne druhy sú schopné udržať vegetatívny rast pri vysokej koncentrácii Cr(VI) a teda fungujú ako bioremediačné činidlá. Jednou z úspešných stratégií detoxikácie mikrobiálneho Cr(VI) je aktivácia chrómanových efluxných púmp. Naše výsledky popisujú transplantáciu chromátovej efluxnej pumpy z potenciálne patogénneho, ale vysoko Cr rezistentného environmentálneho kmeňa *B. pseudomycoides* do kmeňa *Bacillus subtilis*. Zistili sme, že jednotlivé bunky Cr-rezistentného *B. pseudomycoides* akumulujú menej Cr ako bunky kmeňa *B. subtilis*. Ďalej sme zistili, že prežitie kmeňa *B. subtilis* počas stresu Cr možno zvýšiť zavedením chromátového transportéra z *B. pseudomycoides* do jeho genómu. Naša štúdia načrtáva budúci smer zvyšovania tolerancie na chróm nepatogénnymi druhmi a bezpečnej bioremediácie pomocou pôdnych baktérií.

Projekty

1. FNSNF Swiss National Foundation SCOPES IZ 73Z0_152527/1 - The role of metal homeostasis, reduction and sporulation in the metal resistance of Gram-positive bacteria.
2. VEGA 2/0001/21 - Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis.
3. APVV-18-0104 - Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry

Výstupy

1. CHROMÍKOVÁ, Zuzana** - KALIANKOVÁ-CHOVANOVÁ, Romana - TAMINDŽIJA, Dragana - BÁRTOVÁ, Barbora - RADNOVIĆ, Dragan - BERNIER-LATMANI, Rizlan - BARÁK, Imrich**. Implantation of Bacillus pseudomycoides Chromate Transporter Increases Chromate Tolerance in Bacillus subtilis. In Frontiers in Microbiology, 2022, vol. 13, art. no. 842623. (2021: 6.064 - IF, Q1 - JCR, 1.314 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2022.842623 (APVV-18-0104 : Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry. VEGA č. 2/0001/21 : Ako bunka nájde miesto asymetrického delenia počas sporulácie *Bacillus subtilis*)

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2022/ doplnky z r. 2021
1. Vedecké monografie a monografické štúdie vydané v domácich vydavateľstvách (AAB, ABB)	**0 / 0**
2. Vedecké monografie a monografické štúdie vydané v zahraničných vydavateľstvách (AAA, ABA)	**0 / 0**
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB)	**1 / 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)	**1 / 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)	**21 / 0**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**5 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**1 / 0**
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	**0 / 0**
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	**0 / 0**
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	**3 / 0**
16. Publikované príspevky na zahraničných vedeckých konferenciách (AFA, AFC)	**0 / 0**
17. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS	**0**
18. Ostatné vydané periodiká	**1**
19. Zostavovateľské práce knižného charakteru (FAI)	**0 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

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

Tabuľka 2f Štatistika vedeckých prác podľa kvartilu vedeckého časopisu

Kvartil vedeckého časopisu	**Q1**	**Q2**	**Q3**	**Q4**	**Spolu**
Podľa IF z r. 2021 (zdroj JCR) *Počet článkov / doplnky*	15 / 0	9 / 0	2 / 0	0 / 0	26 / 0
Podľa SJR z r. 2021 (zdroj Scimago) *Počet článkov / doplnky*	20 / 0	5 / 0	1 / 0	0 / 0	26 / 0

Tabuľka 2g Ohlasy

OHLASY	**Počet v r. 2021/ doplnky z r. 2020**
Citácie vo WOS (1.1, 2.1)	1641 / 46
Citácie v SCOPUS (1.2, 2.2)	173 / 25
Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2)	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1)	0 / 0
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	56
Prednášky a vývesky na národných vedeckých podujatiach	8

2.6. Vyžiadané prednášky

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

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

1. Bauer, J.: Model Validation with Databases. *3rd StruBioMol Workshop: Macromolecular Structure Determination, analysis and validation.*, Vienna, Austria, 2-3 Nov 2022. (invited lecture)
2. Bauer, J.: Model Building and Refinement. *3rd StruBioMol Workshop: Macromolecular Structure Determination, analysis and validation.*, Vienna, Austria, 2-3 Nov 2022. (invited lecture)
3. Bauer, J., Bauerova-Hlinkova, V.: The effect of the mutations on the dynamic motion of the N-terminal domain of the human ryanodine receptor 2: towards deeper understanding of cardiac arrhythmias. *Chemistry towards Biology 10 - Instruct conference*, Bratislava, Slovakia, 11-14 Sep 2022. (invited lecture)
4. Bauerova-Hlinkova, V.: Protein structure determination: Solution of phase problem. *3rd StruBioMol Workshop: Macromolecular Structure Determination, analysis and validation.*, Vienna, Austria, 2-3 Nov 2022. (invited lecture)
5. Janecek, S.: Alpha-amylase CAZy GH families. *BSBB-2022 - International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy*, Guwahati, India, 7-11 Dec 2022. (invited lecture)
6. Janecek, S., Svensson, B.: How many alpha-amylase GH families are there in the CAZy database? *ALAMY_8 - The Eighth Symposium on the Alpha-Amylase Family*, Smolenice, Slovakia, 9-13 Oct 2022. (invited lecture)
7. Kutejova, E., Kunova, N., Ondrovicova, G., Stojkovicova, B., Krajcovicova, V., Havalova, H., Bauer, J., Barath, P., Tomaska, L., Pevala, V.: Lon protease - the essential component of mitochondrial homeostasis. *Chemistry towards Biology 10 - Instruct conference*, Bratislava,

Slovakia, 11-14 Sep 2022. (invited lecture)

8. Leksa, V.: Milky way of immunity - galactic functions of lactoferrin in host defence. *MESIA2022 - 5th Meeting of middle Europe societies of immunology and allergology*, Praha, Czech Republic, 23-26 Nov 2022. (invited lecture)
9. Pevala, V., Ondrovicova, G., Kunova, N., Stojkovicova, B., Martinakova, L., Havalova, H., Bauer, J., Bauerova-Hlinkova, V., Djinović-Carugo, K., Kutejova, E.: A new Slovak center for research and teaching activities in structural biology - Interreg V-A Slovakia-Austria project StruBioMol. *Chemistry towards Biology 10 - Instruct conference*, Bratislava, Slovakia, 11-14 Sep 2022. (invited lecture)
10. Urbanikova, L., Janecek, S.: Bioinformatics analysis of family GH13 trehalose synthases with focus on a maltokinase-like domain. *Chemistry towards Biology 10 - Instruct conference*, Bratislava, Slovakia, 11-14 Sep 2022. (invited lecture)

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

1. Leksa, V.: Mliečna dráha imunity? galaktické funkcie laktoferínu pri obranyschopnosti. *BIOLOGICKÁ LIEČBA V TEÓRII A PRAXI*, Bratialava, Slovakia, 15-16 Dec 2022. (invited lecture)

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2022

2.7.1. Vynálezy, na ktoré bol v roku 2022 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2022

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 2022

b) udelené v roku 2022

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 2022 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
Bauerová Vladena	VEGA	1
Zámocký Marcel	APVV/SK-CZ-RD	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

Tabuľka 2j Počet vypracovaných recenzií na vedecké monografie, vedecké štúdie a zborníky

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Barák Imrich	0	0	5	0	0	0	0
Bučeková Marcela	0	0	4	0	0	0	0
Bukovská Gabriela	0	0	2	0	0	0	0
Gabriško Marek	0	0	1	0	0	0	0
Janeček Štefan	0	0	26	0	0	0	0
Kľučár Ľuboš	0	0	4	0	0	0	0
Kormanec Ján	0	0	2	0	0	0	0
Labajová Naďa	0	0	2	0	0	0	0
Majtán Juraj	0	0	38	0	0	0	0
Urbániková Ľubica	0	0	1	0	0	0	0
Zámocký Marcel	0	0	10	0	0	0	0
Spolu	**0**	**0**	**95**	**0**	**0**	**0**	**0**

2.11. Iné informácie k vedeckej činnosti.

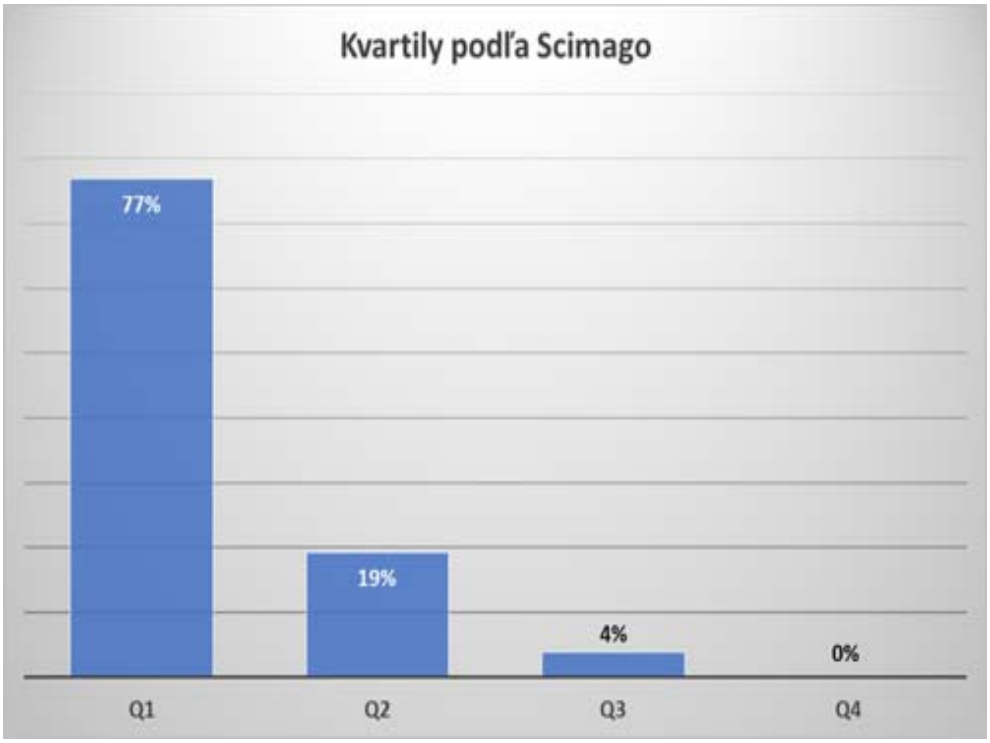
ÚMB SAV, v. v. i. sa aj v roku 2022 podieľal na vedeckých aktivitách súvisiacich s bojom proti pandémii COVID-19. Pracovná skupina RNDr. Imricha Baráka, DrSc. , začlenená do špecifickej celosvetovej výzvy European XFEL s názvom „*New structures to fight COVID-19 solved by liquid jet SFX at the European XFEL*“, pokračovala aj v roku 2022 na riešení projektu zameraného na

prípravu a analýzu kokryštálov proteáz SARS-Cov-2 s potenciálnymi inhibítormi Skupina RNDr. Vladimíra Leksu, PhD. v spolupráci so skupinou prof. H. Stockingera na Lekárskej fakulte vo Viedni pracuje na vývoji liečiva na COVID-19 a skupina Dr. D. Pangalla pracovala na optimalizácii citlivej metódy OSN-qRT-PCR určenej na detekciu SARS-CoV-2 v odpadových vodách.

ÚMB SAV, v. v. i. pokračuje vo svojich medzinárodných vedeckých aktivitách. Je zapojený do projektu Európskeho XFEL-u (X-ray Free Electron Laser) v Hamburgu, ktorý by mal revolucionizovať štrukturálnu biológiu nielen na Slovensku, ale aj vo svete. Pracovníci ústavu pracujú v orgánoch SFX/SPB a XBI konzorcií, alebo ako vedeckí pracovníci XFEL-u. Zúčastnili sa aj na prvých meraniach po spustení prevádzky tohto svetovo unikátneho zariadenia a výsledky boli publikované v prestížnom časopise Nature Communications.

Naša organizácia je medzinárodne etablovaná aj vďaka vedeckým databázam vytvoreným a spravovaným Oddelením genomiky a biotechnológií ÚMB SAV v. v. i. Užitočnosť týchto databáz sa neprejavuje počtom citácií, ale počtom webových prístupov. Naše databázy zaznamenali vysoký počet unikátnych webových návštevníkov – vyše 7 tisíc pre databázu phiSITE, 1700 pre viruSITE a 300 pre phiBIOTICS.

Na ÚMB SAV, v. v. i. sa dlhodobo orientujeme na výskum, ktorý vedie k publikáciám v kvalitných zahraničných periodikách s vyšším IF a so zameraním na lepšiu citovanosť, čo sa premieta do veľmi dobrého medzinárodného postavenia ústavu a do kvalitnej medzinárodnej spolupráce. V roku 2022 vedeckí pracovníci ústavu publikovali celkovo 26 impaktovaných vedeckých publikácií. Zaradenie časopisov podľa kvartilov potvrdzuje vysokú kvalitu našich publikácií. V 1. a 2. kvartile Scimago je 96 % našich publikácií (77 % z nich spadá do 1. kvartilu a 19 % do 2. kvartilu). Snaha publikovať hlavne v kvalitných medzinárodných časopisoch sa rovnako premieta v počte citácií našich prác. Za rok 2021 (vykazované v roku 2022) sme dosiahli 1885 ohlasov (WOS a SCOPUS), kým v minulom roku to bolo 1442 ohlasov.



Pokračujeme v realizácii akčného plánu ústavu. Pri hodnotení pracovných skupín a pracovníkov uplatňujeme kritériá minimálnej vedeckej výkonnosti zavedené v predchádzajúcom roku.

Podporujeme ako kvalitný základný výskum, tak aj výskum s potenciálnym využitím v praxi. Vedeckí pracovníci ústavu vyvíjajú každý rok značné úsilie pri získavaní mimo akademických prostriedkov, každoročne podávajú žiadosti o nové projekty do národných agentúr, vstupujú so žiadosťami do vedeckých programov podporovaných EÚ a projektov iných agentúr. S tým je spojené aj množstvo časovo náročnej administratívnej práce.

V rámci medzinárodného projektu Interreg SK-AU „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“, bolo vybudované prvé automatizované pracovisko štruktúrnej biológie na Slovensku. Táto iniciatíva bola ocenená kolektívnou Cenou SAV za budovanie infraštruktúry za rok 2022. Koordinátorka projektu Ing. Eva Kutejová, DrSc. bola ocenená aj Čestnou plaketou SAV Dionýza Blaškoviča.

Pracovná skupina apidológie a apiterapie pod vedením Ing. Juraja Majtána, DrSc. získala na medzinárodnej výstave Agrokomplex v Nitre 2022 ocenenie Zlatý kosák 2022, udelený za metódu stanovenia antibakteriálneho potenciálu medu. Táto pracovná skupina bola ocenená aj Cenou za transfer technológií na Slovensku 2022, ktorú dostala za projekt „Medové laboratórium“ v kategórii Počin v oblasti transferu technológií.

Jasným zviditeľnením medzinárodného postavenia ÚMB SAV, v. v. i. je aj skutočnosť, že mnohí naši vedeckí pracovníci sú oslovovaní editormi z renomovaných zahraničných vedeckých časopisov a v roku 2022 recenzovali 95 publikácií (WOS, Scopus). Ako experti sa zúčastňujú aj hodnotenia medzinárodných projektov.

Na národnej úrovni je ÚMB SAV, v. v. i. zapojený do projektu štrukturálnych fondov „Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom, ktorého partnermi sú GENETON s.r.o., Chemický ústav SAV, v. v. i. , MEDIREX GROUP ACADEMY, n. o., POWERTEC s. r. o., Slovgen s. r. o. a Univerzitná nemocnica s poliklinikou Milosrdní bratia. Projekt sa venuje výskumu a vývoju v oblasti problematiky dedičných nádorov spôsobených Lynchovým syndrómom a predpokladaného genetického pozadia vyššieho výskytu vybraných typov nádorov v slovenskej populácii. Náš ústav sa zaoberá štúdiom črevného mikrobiómu pacientov s kolorektálnym karcinómom a ľudí s Lynchovým syndrómom.

Rok 2022 bol posledným rokom riešenia medzinárodného projektu Interreg SK-AT „Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií“. Projekt bol ukončený záverečným stretnutím, organizovaným pracovníkmi ÚMB SAV, v. v. i.

Skupina Apidológie a apiterapie pod vedením Ing. Juraja Majtána, DrSc. pokračovala v projekte Medové laboratórium, ktorého snahou je poskytovať širokej verejnosti možnosť analýzy antibakteriálnej aktivity medov a v tomto roku zaznamenala zvyšujúci sa záujem, hlavne drobných včelárov.

Projekt Ing. Juraj Majtána, DrSc. s názvom “Vplyv včelieho enzýmu glukózooxidáza na antibakteriálne vlastnosti medu a charakterizácia jeho produkcie a aktivity v podhltanových žľazách včely medonosnej (Apis mellifera)” bol vybraný ako jeden z najvýznamnejších výsledkoch dosiahnutých pri riešení projektov VEGA ukončených v roku 2021.

Dva naše APVV projekty boli zaradené do výberovej publikácie agentúry APVV Výskumné projekty s vynikajúcou úrovňou za rok 2022. Ide o projekt Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (APVV-16-0452), ktorého zodpovedným riešiteľom je Mgr. Leksa Vladimír, PhD. a projekt Príprava

bakteriofágov na terapiu vaginálnych a močových infekcií (APVV-16-0168), ktorého zodpovednou riešiteľkou za ÚMB SAV, v. v. i. je RNDr. Gabriela Bukovská, CSc.

V roku 2022 sa ÚMB SAV, v. v. i. zapojilo do Periodického hodnotenia výskumnej, vývojovej, umeleckej a ďalšej tvorivej činnosti – VER (Verification of Excellence in Research) vrámci pilotného projektu Ministrestva školstva, vedy, výskumu a športu SR v súlade s Plánom obnovy a odolnosti SR, (https://www.minedu.sk/periodicke-hodnotenie-vyskumnej-vyvojovej-umeleckej-a-dalsej-tvorivej-cinnosti/). Výsledky hodnotenia boli zverejnené na stránke MŠVVaŠ (https://ver.cvtisr.sk/vysledky/) 20.12. 2022. Podľa hodnotenia tvorivej činnosti v prvých dvoch najvýznamnejších úrovniach (svetová a významná medzinárodná úroveň) patrí ÚMB SAV, v. v. i. v oblasti Biologických vied medzi tri najlepšie organizácie hodnotené z celkového počtu 16.

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 2022

Forma	Počet k 31.12.2022				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2022					
							Ukončenie z dôvodov					
	celkový počet		z toho novoprijatí				ukončenie úspešnou obhajobou		predčasné ukončenie		neúspešné ukončenie	
	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž	M	Ž
Denná zo zdrojov SAV	4	12	2	2	2	8	1	1	0	0	0	0
Denná z iných zdrojov	0	0	0	0	0	0	0	0	0	0	0	0
Externá	1	1	1	0	1	1	0	0	1	0	0	0
Spolu	5	13	3	2	3	9	1	1	1	0	0	0
Z toho zahraničných	1	1	0	1	1	1	0	1	0	0	0	0
Súhrn	18		5		12		2		1		0	

Uvádzajte len doktorandov organizácie ako externej vzdelávacej inštitúcie.
Riadok „Spolu“ je súčtom troch riadkov nad ním. Každá bunka v riadku „Súhrn“ vyjadruje celkový počet doktorandov (mužov a žien spolu), čiže je súčtom príslušných dvoch buniek z riadku „Spolu“. V stĺpci „Počet doktorandov po doktorandskej skúške“ sa uvádza počet doktorandov, ktorí počas roku 2022 boli aspoň 1 deň doktorandami po doktorandskej skúške. Sú číselne zahrnutí aj v predchádzajúcich stĺpcoch.
Pod predčasným ukončením rozumieme ukončenie bez obhajoby dizertačnej práce pričom doktorand neabsolvoval celú štandardnú dĺžku štúdia. Pod neúspešným ukončením rozumieme ukončenie bez úspešnej obhajoby dizertačnej práce, pričom študent absolvoval celú štandardnú dĺžku štúdia.

3.2. Zmena formy doktorandského štúdia

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

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

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2022 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 hodnosť
Mgr. Dominik Hadžega	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	4.2.3 molekulárna biológia	Mgr. Ľuboš Kľučár PhD., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK
MSc. Jelena Pavlović	interné štúdium hradené z prostriedkov SAV	9 / 2018	8 / 2022	1536 biológia	Dr. Domenico Pangallo DrSc., Ústav molekulárnej biológie SAV, v. v. i.	Prírodovedecká fakulta UK

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

Tabuľka 3d Menný zoznam ukončených doktorandov v roku 2022 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 hodnosť

3.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 3e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2022 (obhajoba leto 2022)	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
2	1	1	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	0	BIH/1, ITA/1, SRB/1

Zahraniční doktorandi sú doktorandi v dennej alebo externej forme štúdia, ktorí sú občanmi iných krajín. Doktorandi školení v rámci Cotutelle alebo Co-direction sa do posledného stĺpca nezapočítavajú.

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

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

Názov študijného odboru (ŠO)	Číslo ŠO	Názov doktorandského študijného programu	Doktorandské štúdium uskutočňované na (univerzita/vysoká škola a fakulta)
chémia	1420	biochémia	Prírodovedecká fakulta UK
biológia	1536	mikrobiológia	Prírodovedecká fakulta UK
		molekulárna biológia	
		genetika	
	4.2.3	molekulárna biológia	Prírodovedecká fakulta UK
	4.2.4	genetika	Prírodovedecká fakulta UK
	4.2.7	mikrobiológia	Prírodovedecká fakulta UK
	4.1.22	biochémia	Prírodovedecká fakulta UK

Názov a číslo študijného odboru vyplňte/vyberte podľa aktuálne platného zoznamu študijných odborov https://www.portalvs.sk/sk/studijne-odbory?from=menu1. Názov doktorandského študijného programu v stĺpci 3 je potrebné vložiť ako voľný text.
Do 31. 8. 2023 študujú študenti doktorandského štúdia zaradení do študijných programov podľa zoznamu MŠVVaŠ, platného do 1. 9. 2019. Pre týchto študentov je potrebné napísať názov programu ako voľný text do stĺpca 3 a nevyplňovať stĺpce 1 a 2.

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
RNDr. Imrich Barák, DrSc. (mikrobiológia)	prof. Ing. Štefan Janeček, DrSc. (Fakulta prírodných vied UCM)	Mgr. Filip Mareček, PhD. (IIb)
RNDr. Gabriela Bukovská, CSc. (mikrobiológia)	Ing. Juraj Majtán, DrSc. (Slovenská zdravotnícka univerzita v Bratislave)	MSc. Jelena Pavlović, PhD. (IIb)
prof. Ing. Štefan Janeček, DrSc. (molekulárna biológia)		Mgr. Filip Mareček, PhD. (PhD., Fakulta prírodných vied UCM)
RNDr. Ján Kormanec, DrSc. (biochémia)		MSc. Jelena Pavlović, PhD. (PhD., Prírodovedecká fakulta UK)
RNDr. Ján Kormanec, DrSc.		

(molekulárna biológia)		
Dr. Domenico Pangallo, DrSc. (molekulárna biológia)		
RNDr. Vladimír Pevala, PhD. (genetika)		
Mgr. Andrea Puškárová, PhD. (mikrobiológia)		
RNDr. Ľubica Urbániková, CSc. (biochémia)		

3.8. Údaje o pedagogickej činnosti

Tabuľka 3i Prednášky a cvičenia vedené v roku 2022

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	10	0	16	0
Celkový počet hodín v r. 2022	189	0	411	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**	13
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	19
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	7
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	12
5.	**Počet oponovaných dizertačných a habilitačných prác**	7
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	4
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	0
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	5
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

Pri doktorandskom štúdiu sa na Ústave molekulárnej biológie SAV, v. v. i. kladie dôraz na výber školiteľov, kde dôsledne požadujeme krytie kvalitnými projektami a solídnu publikačnú činnosť školiteľa. Dôsledne sme uplatňovali „Vnútorný systém zabezpečenia kvality doktorandského štúdia“ pri prijímaní nových doktorandov, ktorý sa prijal v roku 2020. Aby sme zabezpečili kariérny rast vedeckých pracovníkov, maximálne podporujeme krátkodobé i dlhodobejšie pobyty na zahraničných pracoviskách, workshopoch a kurzoch, ktoré by pomohli priniesť na ústav nové vedomosti a praktické skúsenosti, ale aj nadšenie a inšpiráciu. V tomto roku sme po predchádzajúcom pandemickom období obnovili aj prezenčnú formu seminárov, v rámci ktorých je prezentovaný aj progres prípravy dizertačných prác našich doktorandov.

V priebehu roka 2022 sa u nás školilo v internej forme štúdia 16 doktorandov financovaných z prostriedkov SAV, v externej forme štúdia dvaja doktorandi. Tri doktorandky mali prerušené štúdium (Mgr. Dominika Csölleiová, Ing. Evelína Kalocsaiová, a Mgr. Monika Zámocká). Počas roka 2022 prešla jedna doktorandka z internej na externú formu štúdia (Ing. Evelína Kalocsaiová). V septembri nastúpili traja noví doktorandi, Mgr. Milan Hučko, Mgr. Bohuš Kubala a Mgr. Filipa Opaterný a dve nové doktorandky Mgr. Nikola Klištincová a Dr. Francesca Maisto. Z prijatých doktorandov bol

jeden doktorand (Mgr. F. Opaterný) prijatý na externú formu štúdia a jedna doktorandka (Dr. F. Maisto) je zo zahraničia (Taliansko). Podmienky na prijatie na doktorandské štúdium v študijnom programe mikrobiológia splnila aj študentka z Pakistanu (Dr. Ayesha Nawaz), avšak z dôvodu vyššej moci (politická situácia v krajine pôvodu a z nej vyplývajúce neudelenie povolenia na vycestovanie) nemohla nastúpiť.
Jeden doktorand Mgr. Hadžega, PhD. a jedna doktorandka MSc. Jelena Pavlović, PhD.ukončili v roku 2022 svoje štúdium úspešnou obhajobou PhD., obaja v internej forme štúdia.

V roku 2022 sa v našej organizácii uskutočňovalo doktorandské štúdium v troch študijných programoch: molekulárna biológia a mikrobiológia v odbore Biológia a biochémia v odbore Chémia, všetky v spolupráci s Prírodovedeckou fakultou UK Bratislava. Naši vedeckí pracovníci si v tomto roku vypísali 12 tém na doktorandské štúdium v štyroch študijných programoch Prírodovedeckej fakulty UK v Bratislave, a to molekulárna biológia, mikrobiológia a genetika v odbore Biológia a biochémia v odbore Chémia.

Naši doktorandi sa aktívne zapájajú do vedeckého a spoločenského života ÚMB SAV, v. v. i. Mnohí z nich viedli v roku 2022 semináre a cvičenia na príslušných katedrách Prírodovedeckej fakulty UK, oponovali bakalárske práce a niektorí sa aktívne zúčastnili výuky na strednej škole a pod. Do programu grantov pre doktorandov SAV (DoktoGrant) sa v roku 2022 zapojili traja naši doktorandi. DoktoGrant získala Mgr. K. Pápayová (školiteľka RNDr. G. Bukovská, CSc.), bude riešený v roku 2023.

Okrem doktorandského štúdia sa viacerí pracovníci ústavu aktívne podieľali na pedagogickom procese na viacerých slovenských (Prírodovedecká fakulta UK v Bratislave, Fakulta prírodných vied UCM v Trnave) a zahraničných univerzitách (Ultrecht University, Holandsko) vedením bakalárskych aj diplomových prác a preddiplomovej praxe študentov, ako aj vedením seminárov, praktických cvičení a prednášok. Na našom pracovisku dlhodobo školíme poslucháčov bakalárskeho a magisterského stupňa Prírodovedeckej fakulty UK, najmä z Katedry molekulárnej biológie, Katedry mikrobiológie a virológie, Katedry biochémie a Katedry genetiky ako aj z Fakulty prírodných vied UCM v Trnave. Okrem toho sa naši vedeckí pracovníci venujú aj študentom stredných škôl, ktorí majú každoročne možnosť zúčastniť sa našich prednášok v rámci akcie „Deň otvorených dverí“, v roku 2022 podobne ako v roku 2021 formou online prednášok. V prípade záujmu majú stredoškolskí študenti možnosť získavať skúsenosti pri práci v laboratóriu, prípadne sa svojimi výsledkami zúčastňovať aj súťaže SVOČ.
V roku 2022 prejavili záujem o vedeckú odbornú činnosť na našej inštitúcii piati študenti stredných škôl. Pod vedením Mgr. V. Bauerovej, PhD., vypracoval SOČ Samuel Molnár z Gymnázia Česká 10 v Bratislave. Pod vedením Mgr. A. Puškárovej, PhD., vypracovala SOČ Zuzana Sitárová z Gymnázia Tilgnerova v Bratislave. S prácou s názvom „Antimikrobiálne účinky esenciálnych olejov“ postúpila do celoštátnej prehliadky 44. ročníka SOČ. V roku 2022 začali vypracovávať SOČ študenti Samuel Bačiak z Gymnázia Metodova v Bratislave pod vedením Mgr. M. Hučka a RNDr. I. Baráka, DrSc., a Samuel Berta z Evanjelického kolegiálneho gymnázia v Prešove pod vedením Mgr. Ľ. Kľučára, PhD., Mgr. Z. Farkaš, PhD., a Mgr. M. Hučka.
Pod vedením Ing. J. Majtána, DrSc. vypracoval svoj projekt s názvom "Čo odkryla mikroanalýza medu a medovej peny" Matej Kmec, študent Katolíckej spojenej školy sv. Mikuláša v Prešove, pričom sa stal jedným z výhercov 25. ročníka celoštátneho finále súťaže FESTIVAL VEDY A TECHNIKY AMAVET a postúpil na súťaž MILSET Expo-Sciences International (ESI), Mazatlán, Mexiko.
V rámci európskeho výmenného programu ERASMUS+ sa dvaja belgickí študenti, Robin Cohen a Xavier Tomisinec Vandorenz z Haute École en Hainaut (HEH) v Monse, zúčastnili pod vedením Ľ. Kľučára na polročnom študijnom pobyte v našej pracovnej skupine Bioinformatika. Súčasťou ich stáže bolo aj vypracovanie ich bakalárskych prác, ktoré na svojej univerzite v druhom polroku 2022 úspešne obhájili.

Pod vedením Dr. Pangalla a cez výmenný program ERASMUS+ absolvovali na našej inštitúcii zahraničnú stáž aj traja talianski študenti Alessio Fontanot (85 dní), Pierluca Nuccetelli (181 dní) a Francesca Maisto (170 dní). Zahraničný pobyt zastrešený španielskou regionálnou agentúrou Doutoramento Industrial - Axencia Galega de Innovación absolvovali aj dvaja španielski študenti Anxo Mendez Villar (58 dní) a Diana Perez Velon (58 dní), rovnako pod vedením Dr. Pangalla.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2022 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

2. StruBioMol Workshop : Izolácia, charakterizácia a kryštalizácia proteínov, Ústav molekulárnej biológie SAV, v. v. i. , 50 účastníkov, 14.06.-15.06.2022

Boli zahrnuté techniky ako diferenciálna skenovacia fluorimetria (nanoDSF a Thermofluor) a kryštalizácia proteínov (manuálne a vysokovýkonné techniky využívajúce kryštalizačné roboty Formulatrix).
Workshop bol rozdelený do dvoch sekcií (dopoludňajšia s prednáškami a poobedňajšia s praktickými cvičeniami) a bol určený pre magisterských a doktorandských študentov, postdoktorandov a ďalších výskumníkov v prihraničnom regióne Viedeň – Bratislava.
Zúčastnilo sa ho 50 účastníkov zo širšieho EÚ priestoru a mal významný vplyv na zviditeľnenie ÚMB SAV,v. v. i., zvýšenie potenciálu na vedeckú spoluprácu a zapojenie študentov a výskumných pracovníkov do výskumu v oblasti štruktúrnej biológie.

Ôsme sympózium o alfa-amylázovej rodine - ALAMY_8, Smolenický zámok, Smolenice, Slovensko, 60 účastníkov, 09.10.-13.10.2022

Sympózium sa konalo už tradične na Slovensku na Smolenickom zámku, kde aj všetci účastníci boli ubytovaní. Vedecký program ALAMY_8 bol zameraný ako obvykle na rôzne aspekty hlavného alfa-amylázového enzýmového klanu GH-H (t.j. rodiny GH13, GH70 a GH77), ako aj menších alfa-amylázových rodín - hlavne GH57, ale aj GH119 a dokonca aj GH126. Okrem toho boli v programe sympózia zahrnuté aj rôzne aspekty viazania škrobu a glykogénu (vo všeobecnosti alfa-glukánu), reprezentované samostatnými škrob-viažúcimi doménami (rodiny CBM20, 21, 25, 26, 34, 41, 45, 48, 53, 58, 68, 74, 82 a 83) alebo povrchovými väzbovými miestami pre alfa-glukány.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2023 (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
Bauer Jacob	0	0	1
Bauerová Vladena	0	1	1
Janeček Štefan	0	0	1
Kunová Nina	0	0	1
Kutejová Eva	0	0	1
Martináková Lucia	0	0	1
Ondrovičová Gabriela	0	0	1
Pevala Vladimír	0	1	1

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Mgr. Vladena Bauerová, PhD.

Česká a Slovenská kryštalografická spoločnosť (funkcia: člen)
Česká společnost pro strukturní biologii (funkcia: člen)

RNDr. Lucia Bocánová, PhD.

The European Society of Clinical Microbiology and Infectious Diseases (ESCMID) (funkcia: člen)

RNDr. Gabriela Bukovská, CSc.

International Society for Viruses of Microorganisms (funkcia: člen)

Mgr. Ľuboš Kľučár, PhD.

EMBnet (funkcia: manažér Národného uzla)

Mgr. Vladimír Leksa, PhD.

Rakúska spoločnosť pre alergológiu a imunológiu - OEGAI (funkcia: člen)

Ing. Juraj Majtán, DrSc.

International Honey Commission (funkcia: člen)

RNDr. Ľubica Urbániková, CSc.

Česká a slovenská kryštalografická spoločnosť (funkcia: člen vedeckej rady)

RNDr. Marcel Zámocký, DrSc.

RedoxiBase (funkcia: administrátor)

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
Barák Imrich	Polish National Science Center (NSC)	12

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

Pracovná skupina Environmentálna a potravinová mikrobiológia pod vedením Dr. Domenica Pangalla, DrSc. v tomto roku optimalizovala rôzne metódy real-time PCR s cieľom odhaliť gén *mecA* (prítomný v *Staphylococcus aureus*) vo vzorkách zo životného prostredia: voda, odpadová voda, častice plastov a mikroplastov. Zamerali sa aj na detekciu SARS-CoV-2 v odpadových vodách. Pokračujú vo vývoji vysokovýkonných sekvenčných stratégií založených na platforme MinION na identifikáciu rezistómu vo vzorkách súvisiacich s vodou. V tomto roku vyvinuli niekoľko testov nested qPCR na detekciu SARS-CoV-2 vo vzorkách odpadových vôd. Bola vyvinutá nová vysokovýkonná sekvenčná stratégia založená na platforme MinION na identifikáciu mikrobioty a rezistómu vo vzorkách odpadových vôd.

Pracovná skupina Fylogenomickej ekológie pod vedením RNDr. Marcela Zámockého, DrSc. spolupracovala v roku 2022 s University of Natural Resources and Life Sciences vo Viedni na téme molekulárnej evolúcie tyroidných peroxidáz a ich evolučných predchodcov až po bezstavovce s dôsledkami pre štúdium biosyntézy tyroidných hormónov. Výsledky boli prezentované formou online prednášky na 3. medzinárodnej konferencii Cell & Experimental Biology v Bostone USA. Ďalej skupina intenzívne spolupracovala s prof. Gomesom z brazílskej univerzity v Paraná ako aj s výskumnou skupinou prof. Margis-Pinheiro z brazílskej univerzity v Porto Alegre na téme enzýmových antioxidantov reprezentovaných rastlinnými peroxidázami a katalázami. Výsledky boli publikované v časopise Antioxidants-Basel, ktorý má aktuálny IF 7,675 a tiež v časopise Biology-Basel s IF 5,168. V spolupráci s kolegami z Loschmidtových laboratórií Masarykovej univerzity v Brne uskutočnili rozsiahlu štruktúrnu a fylogenetickú analýzu hybridných hémových peroxidáz z patogénnych húb. Výsledky tejto štúdie vyšli v spoločnej publikácii uverejnenej v časopise Biology-Basel.

Skupina Laboratórium evolúcie proteínov (http://imb.savba.sk/~janecek/) vedená prof. Štefanom Janečkom patrí k popredným svetovým pracoviskám zapojeným do štúdia amylolytických enzýmov v najširšom zmysle slova. Laboratórium má dlhodobo etablovanú neformálnu širokú medzinárodnú spoluprácu s renomovanými zahraničnými laboratóriami v Európe aj v zámorí, ktorá sa prejavuje najmä v riešení *ad hoc* rôznych výskumných problémov. Jednou z najvýznamnejších je viac ako 25-ročná spolupráca s Birte Svensson (Danish Technical University, Kgs. Lyngby, Denmark), v rámci ktorej bol v roku 2022 publikovaný článok typu „Opinion“ pre časopis *Amylase* autorov Štefan Janeček a Birte Svensson, prinášajúci názory na alfa-amylázové rodiny v rámci databázy CAZy. Ďalšou aktivitou tejto spolupráce bolo spracovanie *in silico* analýzy disproporcionačných enzýmov DPE2 z rodiny GH77 do spoločnej publikácie pre časopis Molecules (aktuálne v recenznom konaní). V rámci spolupráce s Nicole Koropatkinovou (University of Michigan Medical School, Ann Arbor, Michigan, USA) bola pripravená detailná bioinformatická analýza škrob-viažúcej domény z rodiny CBM74, ktorej terciárnu štruktúru vyriešili kolegovia v USA; publikácia je po peer-review v štádiu prípravy revidovanej verzie pre časopis *Nature Structural & Molecular Biology*. Ďalšie konkrétne spolupráce sú aktuálne realizované s Nathalie Juge (Quadram Institute of Bioscience, Norwich Research Park, Norwich, United Kingdom) a Dessy Natalia (Bandung Institute of Technology, Bandung, Indonesia) na témy *in silico* analýz amylolytického enzýmového potenciálu v genóme *Ruminococcus gnavus*, resp. možnej halofilicity alfa-amylázy BaqA z *Bacillus aquimaris*. Prejavom širokej medzinárodnej spolupráce a postavenia vedúceho skupiny je aj oragnizácia konferencií o enzýmoch z alfa-amylázovej rodiny v trojročných intervaloch od roku 2001; v dňoch 9.-13. októbra 2022 sa konalo už 8. sympózium z tejto série – ALAMY_8 (http://imb.savba.sk/~janecek/Alamys/Alamy_8/).

Pracovná skupina Molekulárna imunológia pod vedením RNDr. Vladimíra Leksu, PhD. spolupracovala v roku 2022 s Lekárskou univerzitou Viedeň (MUW) a výsledky ich najnovšej štúdie boli zverejnené v prestížnom časopise Froniers in Immunology (impact factor 8,786). Výskum vedcov potvrdil, že glykoproteín z ľudského mlieka – laktoferín, jeho bioaktívny produkt laktofericín, ako aj syntetický peptid odvodený od laktofericínu blokujú infekciu SARS-CoV-2 v bunkových kultúrach. Prírodné a syntetické peptidy odvodené od laktoferínu tak podľa tejto štúdie môžu slúžiť na podporu prevencie a liečby COVID-19.

Pracovná skupina Mikrobiálnej genetiky pod vedením RNDr. Imricha Baráka, DrSc. spolupracovala v roku 2022 s CF CryoEM a CF Nanobio CEITEC, Masarykova univerzita v Brne na téme Charakterizácia *Clostridioides difficile* DivIVA-membránového komplexu. Projekt bol spolufinancovaný z CIISB, Instruct-CZ Centre, podporený MŠMT ČR (LM2018127) a Európskym fondom regionálneho rozvoja-Projekt "UP CIISB" (č. CZ.02.1.01/0.0/0.0/18_046/ 0015974). Výsledky boli prezentované formou online prednášky na medzinárodnej konferencii 21st International Conference on Bacilli and Gram-Positive Bacteria.

Pracovná skupina Bioinformatika sa v roku 2022 zapojila do medzinárodného COST programu ML4Microbiome (CA18131) „Statistical and machine learning techniques in human microbiome studies“, v rámci ktorého sa Mgr. Ľuboš Kľučár, PhD. stal národným koordinátorom tohhto projektu. Spolupráca je zameraná na perspektívne pokročilé výpočtové metódy strojového učenia pre potreby analýz širokého spektra dát ľudského mikrobiómu.

Pracovná skupina Biochémia a štruktúra proteínov pod vedením Ing. Evy Kutejovej, DrSc spolupracovala v roku 2022 s Dr. Jiřím Nováčkom CF CryoEM CEITEC, Masarykova univerzita v Brne na štúdiu štruktúry modifikovaných foriem ľudskej LON proteázy. Výsledky sú súčasťou APVV projektu a pripravovanej publikácie.

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)

Celkové posúdenie tak ako bolo formulované v správe akreditačnej komisie

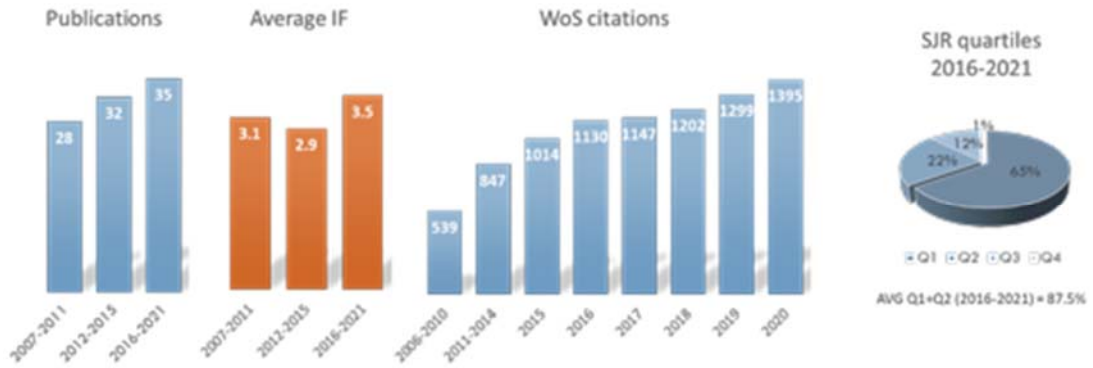
Ústav molekulárnej biológie mal v posledných rokoch v priemere okolo 40 výskumných pracovníkov (FTE). V súčasnosti existuje 6 rôznych oddelení, ktoré boli rozdelené do 13 laboratórií. Laboratóriá sú tematicky celkom dobre prepojené, ich vyšší počet je však pomerne neobvyklý a mohlo by byť rozumné ich počet znížiť.

Pripomienky a odporúčania pre budúce zlepšovanie inštitútu

- Inštitút potrebuje jasnú stratégiu svojho budúceho výskumného programu, aby sa mohli uprednostniť perspektívne výskumné projekty a aby bolo možné dosiahnuť medzi nimi väčšiu synergiu.
- Štruktúra inštitútu (6 oddelení a 11 laboratórií) je pomerne komplikovaná vzhľadom na to, že v ústave pracuje 43 vedeckých pracovníkov. MPV odporúča štruktúru ústavu prehodnotiť.
- Chýba politika duševného vlastníctva, ktorú je potrebné začať rozvíjať. Prínosom by boli viac aplikované výskumné projekty, vrátane medzinárodných.

5.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Náš akčný plán na roky 2017-2021 bol zavŕšený akreditáciou organizácií SAV, ktorá prebehla v roku 2022 za obdobie 2016-2021. Našej organizácii sa podarilo podstatne zlepšiť svoje hodnotenie, keď sme postúpili z kategórie C (za obdobie 2012-2015) do kategórie B (hodnotenie 2016-2021). Sme veľmi radi, že sa nám podarilo udržať stúpajúci trend našich vedeckých výstupov a ohlasov pri zachovaní ich nadštandardnej a stúpajúcej kvality. Priemerný počet impaktovaných publikácií dosiahol 35 ročne, priemerný IF dosiahol hodnotu 3,5 a ročný priemerný počet citácií sa zvýšil o viac než 40%. Kvalita našich publikácií je charakterizovaná faktom, že až takmer 90% našich publikácií patrí do prvých dvoch kvalitatívnych kvartilov SJR.



V oblasti doktorandského štúdia sa nám podarilo udržať naplnenie limitu pridelených doktorandských miest a každý rok máme spravidla viac záujemcov o doktorandské štúdium, ako sú naše finančné kapacity, čo nám umožňuje vybrať si tých najlepších uchádzačov. Napriek nie veľmi optimálnemu

stavu nášho mzdového fondu sa nám podarilo zamestnať aj istý počet mladých vedeckých pracovníkov, čo prispelo k tomu, že priemerný vek našich zamestnancov sa významne nenavýšil.
Zásadnou zmenou v manažmente nášho pracoviska bola redukcia počtu vedeckých oddelení (pôvodne 6) a laboratórií (11) na 4 vedecké oddelenia, čo bolo pozitívne hodnotené aj hodnotiacim panelom. Dôležitým prínosom bolo aj zriadenie medzinárodného poradného výboru, ktorého členmi sú traja špičkoví zahraniční vedci z UK, Dánska a Švédska. V oblasti vedeckých projektov sa nám darí udržať slušnú úroveň počtu národných projektov - v priemere 17 VEGA projektov ročne a 15 APVV projektov ročne, je však potrebné vyvinúť väčšiu iniciatívu v zapájaní sa do prestížnych medzinárodných projektov.
Azda najvýraznejší pokrok sme zaznamenali v oblasti aplikovaného výskumu a komercializácie získaných výsledkov. Podarilo sa nám úspešne zaregistrovať jeden národný patent, dve národné patentové prihlášky, ako aj jeden úžitkový vzor. Okrem toho, sme zaregistrovali dizajn Spoločenstva "Medové laboratórium", ktoré obsahuje tri známky kvality, ktoré organizácia udeľuje na základe výsledkov akreditovanej metódy stanovenia antibakteriálnej aktivity medu. Organizácia napreduje aj v uzatváraní kontraktov so súkromnými tuzemskými a zahraničnými spoločnosťami a postupne tak získava mimorozpočtové finančné zdroje.

5.3. Aktualizácia Akčného plánu organizácie v roku 2022

V roku 2022 prebehla akreditácia vedeckých organizácií SAV za roky 2016-2021, ktorej výsledkom je aj nové hodnotenie nášho pracoviska. Po definitívnom ukončení hodnotenia vo februári 2023 vypracujeme v priebehu roka 2023 aktualizovanú verziu Akčného plánu. Medzi hlavné strategické priority, na ktoré sa chceme v najbližších rokoch zamerať, patrí:

- vytvorenie podporného prostredia pre všetkých výskumných pracovníkov - od výskumných pracovníkov na začiatku kariéry až po vedúcich výskumných pracovníkov a vytvorenie atraktívnych pracovných podmienok medzinárodných štandardov pre talentovaných mladých výskumníkov,
- vykonávanie relevantného, inovatívneho a atraktívneho základného výskumu a zvýšenie príjmov z výskumu zabezpečením dodatočného financovania a zmluvných kontraktov,
- pokračovanie v rozvoji disciplinárneho a interdisciplinárneho výskumu,
- rozšírenie spolupráce s národnými a medzinárodnými výskumnými inštitúciami, univerzitami a priemyselnými subjektmi,
- zlepšenie prezentácie našich výskumných aktivít a posilnenie ich spoločenského dopadu na národnej aj medzinárodnej úrovni.

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: Universität Wien, Rakúsko
Oblasť spolupráce: základný výskum
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2009
Zhodnotenie: Max Perutz Labs: kryštalizácia a X-ray analýza bielkovín Medical University: Charakterizácia proteínov zodpovedných za kontrolu proteolýzy na povrchu bunky.

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

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

Názov inštitúcie: Future Farming s.r.o. Brno
Oblasť spolupráce: výskum rôznych antioxidantov z prírodných zdrojov
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2022
Zhodnotenie: V tomto roku sa spolupráca rozbehla a dosiahnuté výsledky v oblasti výskumu enzýmových antioxidantov boli prezentované formou prednášky na konferencii Green for Good VI v Olomouci, Česká republika.

Názov inštitúcie: Slovenský zväz včelárov
Oblasť spolupráce: Spolupráca v oblasti výskumu medu
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2021
Zhodnotenie: spolupráca ÚMB SAV, v. v. i. so Slovenským zväzom včelárov na základe memoranda o vzájomnej spolupráci. Memorandum za účelom dosiahnutia spolupráce v oblasti výskumu medu, a to charakterizovaním nových kvalitatívnych parametrov medu, ako aj optimalizáciou technologických spôsobov spracovania medu so zameraním na zvyšovanie kvality medu a zachovania jeho zdraviu prospešných vlastností.

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

Názov univerzity/vysokej školy a fakulty: University of Natural Resources and Life Sciences vo Viedni. Oblasť spolupráce: základný výskum. Zhodnotenie: Dlhodobá spolupráca s univerzitovu na projekte "Molecular Evolution of Heme Peroxidases from Cephalochordata" (s označením P 31707-B32), ktorý viedol k trom spoločným publikáciám.

Názov univerzity/vysokej školy a fakulty: Bandung Institute of Technology, Bandung, Indonézia. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2012 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu štruktúry, funkcie a evolúcie amylolytických enzýmov so zameraním na schopnosť degradácie surového škrobu.

Názov univerzity/vysokej školy a fakulty: Cardiff University, Wales, UK. Oblasť spolupráce: základný výskum. Sídlo spoločného pracoviska (ak je vytvorené): Začiatok spolupráce: 2009 – trvá. Zhodnotenie: Spolupráca je zameraná na charakterizáciu rekombinantne pripravených domén ľudského ryanodínového receptora 2, exprimovaného predovšetkým v srdcovom svale. V rámci spolupráce bolo publikovaných niekoľko publikácií v zahraničných karentovaných časopisoch.

Názov univerzity/vysokej školy a fakulty: Ecole Polytechnique Federale de Lausanne, Švajčiarsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: Karlova Univerzita v Prahe, Česká republika. Oblasť spolupráce: elektrónová mikroskopia. Začiatok spolupráce: 2011 – trvá. Zhodnotenie: Spolupracujeme s Lekárskou fakultou Karlovej univerzity v Prahe na stanovení štruktúry ATP-závislej proteázy pomocou elektrónovej mikroskopie. Dokončili sa merania EM a určila sa 3D štruktúra ľudskej LON proteázy.

Názov univerzity/vysokej školy a fakulty: Přírodovědná fakulta ,Masarykova Universita Brno, CEITEC Brno, Česká republika. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2011-trvá. Zhodnotenie: Elektrónová mikroskopia mutantov ľudskej mitochondriálnej LON proteázy a MS analýzy modifikovaných proteínov.

Názov univerzity/vysokej školy a fakulty: Technical University of Denmark, Kgs. Lyngby, Dánsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu amylolytických enzýmov a ich škrob-viažucich domén in silico prístupmi so zameraním na ich sekvencie, štruktúry, funkcie a evolúciu.

Názov univerzity/vysokej školy a fakulty: University of Groningen, Groningen, Holandsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2016 - trvá. Zhodnotenie: dlhodobá spolupráca týkajúca sa výskumu štruktúry, funkcie a evolúcie amylolytických enzýmov so zameraním na unikátne črty v ich sekvenciách.

Názov univerzity/vysokej školy a fakulty: University of Michigan Medical School, Ann Arbor, MI, USA. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2021 - trvá. Zhodnotenie: spolupráca týkajúca sa výskumu štruktúry, funkcie a evolúcie amylolytických enzýmov so zameraním na škrob-viažuce domény.

Názov univerzity/vysokej školy a fakulty: University of Novi Sad, Srbsko. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 2014 - trvá. Zhodnotenie: Riešenie spoločného projektu FNSNF (SCOPES) týkajúceho sa izolácie a charakterizácie nových kmeňov sporulujúcich Bacilov schopných redukovať chróm v znečistených pôdach.

Názov univerzity/vysokej školy a fakulty: University of York, Veľká Británia. Oblasť spolupráce: základný výskum. Začiatok spolupráce: 1995 - trvá. Zhodnotenie: V rámci tejto spolupráce bolo niekoľko spoločných grantových projektov a to konkrétne 3 x z The Wellcome Trust a 1 x z The Royal Society. Spolupráca sa dlhodobo týka štúdia základných bunkových procesov u Bacillus subtilis na molekulovej úrovni.

7. Aplikácia výsledkov výskumu v spoločenskej a hospodárskej praxi

7.1. Výsledky výskumu organizácie aplikované v spoločenskej a hospodárskej praxi

Výsledok výskumu: V spolupráci so Štátnym veterinárnym a potravinovým ústavom v Bratislave sme akreditovali vyvinutú a optimalizovanú metodiku stanovenia antibakteriálneho potenciálu medu, komerčne dostupnú v rámci Európskej únie.
Kto využíva výsledok: hobby včelári, včelie farmy, spotrebitelia
Rok využívania od: 2022
Rok využívania do: 0000
Projekt: Medové laboratórium
Rok vytvorenia výsledku: 2020
Autori výsledku: Juraj Majtán, Marcela Bučeková

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov/účel kontraktového výskumu: Zlepšenie produkcie klinicky významného proteínu
Zadávateľ výskumného kontraktu: N/A
Začiatok spolupráce: 2020
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 50000

Názov/účel kontraktového výskumu: Anti-bacterialeffect of oils containing cannabidiol (CBD)
Zadávateľ výskumného kontraktu: Rebel Rands GmbH
Začiatok spolupráce: 2021
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 600

Názov/účel kontraktového výskumu: Anti-inflammatory effect of oils containing cannabidiol (CBD)
Zadávateľ výskumného kontraktu: Rebel Rands GmbH
Začiatok spolupráce: 2021
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 600

Názov/účel kontraktového výskumu: Antibakteriálna aktivita produktov na báze esenciálnych olejov
Zadávateľ výskumného kontraktu: Fresh & Fit s.r.o.
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 600

Názov/účel kontraktového výskumu: Nový technologický prístup spracovania medu pomocou ultrazvuku
Zadávateľ výskumného kontraktu: Notus-Powersonic s.r.o. (Vráble, Slovensko)
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 0

Názov/účel kontraktového výskumu: Porovnanie imunostimulačnej aktivity preparátov Imunoglukanu
Zadávateľ výskumného kontraktu: Pleuran s.r.o.
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 1300

Názov/účel kontraktového výskumu: Test nami pripravených geneticky manipulovaných kmeňov Streptomyces lividans RedStrep pre nadprodukciu biologicky aktívnych látok
Zadávateľ výskumného kontraktu: Odyssey Therapeutics Inc., Newcastle upon Tyne, U.K.
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2022
Finančný prínos pre organizáciu (€): 3315

Názov/účel kontraktového výskumu: Porovnanie imunostimulačnej aktivity preparátov Imunoglukanu
Zadávateľ výskumného kontraktu: Pleuran s.r.o.
Začiatok spolupráce: 2022
Ukončenie spolupráce: 2023
Finančný prínos pre organizáciu (€): 3000

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

Názov: „Antimikrobiálny proteín, antimikrobiálny rekombinantný proteín s lytickými vlastnosťami, expresný vektor, spôsob ich prípravy a použitie“. V marci 2022 bola prostredníctvom Kancelárie pre transfer technológií SAV pripravená a podpísaná dohoda „Material Transfer Agreement” medzi ÚMB SAV, v. v. i. a spoločnosťou MICREOS (Švajčiarsko) (https://www.micreos.com/) o zaslaní vzorky nového antimikrobiálneho rekombinantného proteínu EN534-C s lytickými vlastnosťami voči patogénnym kmeňom Streptococcus agalactiae na otestovanie jeho lytických vlastností priamo v laboratóriách tejto biotechnologickej firmy. Rozhovory o ďalšej spolupráci pokračujú.

Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. pokračuje v poskytovaní komerčnej služby pre včelárov v rámci projektu “Medové laboratórium“, ako aj v bezplatnej konzultácii pre včelárov. Laboratórium apidológie a apiterapie ÚMB SAV, v. v. i. sa podieľa aj na ďalších komerčných aktivitách a to vykonávaním vedeckých analýz prírodných produktov ako sú napr. extrakty húb pre súkromné tuzemské a zahraničné subjekty.

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. Imrich Barák, DrSc.	Komisia pre koordináciu aktivít SR v projektoch ESFRI orientovaných na materiály, fyzikálne vedy, s aplikačným potenciálom v biologických a medicínskych vedách, v chemických vedách a IT	člen
	SFX Management Board at European XFEL (X-ray Free Electron Laser) in Hamburg, Germany	člen
	XBI "Management Board at European XFEL (X-ray Free Electron Laser)" v Hamburgu, Nemecko	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	predseda
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore biochémia	člen
	Predsedníctvo APVV	člen
RNDr. Peter Ferianc, CSc.	Zbor expertov pre biologickú bezpečnosť Ministerstva životného prostredia SR	člen
prof. Ing. Štefan Janeček, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	predseda
RNDr. Ján Kormanec, DrSc.	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore molekulárna biológia	člen
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore mikrobiológia	predseda
	SKVH komisia pre obhajoby doktorských dizertačných prác v odbore virológia	člen
Ing. Juraj Majtán, DrSc.	Odborná pracovná skupina pre farmakoekonomiku, klinické výstupy a hodnotenie zdravotníckych technológií MZ SR	člen
RNDr. Vladimír Pevala, PhD.	Komisia pre biologickú bezpečnosť	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 vládnymi a parlamentnými orgánmi alebo pre ich potrebu

9. Vedecko-organizačné a popularizačné aktivity

9.1.Vedecko-popularizačná činnosť

Tabuľka 9a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	2	tlač	3	TV	0
rozhlas	1	internet	12	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
2. StruBioMol Workshop : Izolácia, charakterizácia a kryštalizácia proteínov	medzinárodná	Ústav molekulárnej biológie SAV, v. v. i.	14.06.-15.06.2022	50
Ôsme sympózium o alfa-amylázovej rodine - ALAMY_8	medzinárodná	Smolenický zámok, Smolenice, Slovensko	09.10.-13.10.2022	60

9.3. Účasť na výstavách

Názov výstavy: Európska noc výskumníkov 2022
Miesto konania: Stará tržnica, Bratislava
Dátum: 30.9.2022
Zhodnotenie účasti: Naše pracovisko sa na festivale vedy Európska noc výskumníkov 2022 prezentovalo so stánkom "Nenahraditeľné mikróby". Téma s praktickými prezentáciami bola venovaná mikróbom v priemysle, medicíne a potravinárstve, ako aj antimikrobiálnym látkam a pigmentom, ktoré tieto mikroorganizmy produkujú. Pre menších návštevníkov bol pripravený vedomostný kvíz o mikróboch a súťaže. Na podujatí sa zúčastnilo 16 našich zamestnancov a táto aktivita sa stretla s výrazne pozitívnym ohlasom.

Názov výstavy: Týždeň vedy a techniky 2022
Miesto konania: videokonferenčná prezentácia ÚMB SAV v. v. i. , Bratislava
Dátum: 8.11.2022
Zhodnotenie účasti: V rámci Týždňa vedy a techniky na Slovensku 2022, usporiadalo naše pracovisko videokonferenčnú prezentáciu nášho Dňa otvorených dverí, ktorého súčasťou boli tri prednášky (RNDr. M.Kajsiková, PhD., „Antibakteriálny účinok fágov a fágových endolyzínov“, Mgr. M.Bučeková, PhD. „Biologické účinky medu“, Mgr. R.Javorová, „Streptomycéty najvýznamnejší producenti antibiotík“). Na podujatie sa prihlásili 4 triedy z dvoch stredných škôl zo Slovenska. Prednášky boli po skončení podujatia hodnotené veľmi pozitívne zo strany študentov aj učiteľov. Záznamy týchto prednášok sú dostupné na našom YouTube kanáli ÚMB SAV, v. v. i.

Názov výstavy: Európska Noc výskumníkov 2022 – Navštív svoju školu – Spoznaj svojho vedca
Miesto konania: ZŠ Morovnianska cesta, Handlová
Dátum: 6.10.2022
Zhodnotenie účasti: Naše pracovisko sa v rámci festivalu vedy Európska Noc výskumníkov 2022 zapojilo do programu Navštív svoju školu – Spoznaj svojho vedca. Mgr. Ráchel Javorová prezentovala tému Streptomycét – farebných pôdnych baktérií, ktorej sa venujeme na Oddelení genomiky a biotechnológií na našom ústave, študentom deviateho ročníka Základnej školy na Morovnianskej ceste v Handlovej. Prezentácia bola obohatená o názorné ukážky pôdnych baktérií streptomycét (významných producentov väčšiny pigmentov a antibiotík), extrakciu modrého pigmentu indigoidínu a kreslenie na Petriho misky s tuhým živným médiom pôdnymi baktériami. Podujatie sa stretlo s pozitívnym ohlasom zo strany študentov aj učiteľov.

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. Imrich Barák, DrSc.

Frontiers in Microbiology (funkcia: Associate Editor)

prof. Ing. Štefan Janeček, DrSc.

3Biotech (funkcia: Associate Editor)
Amylase (funkcia: Editor-in-Chief)
Biologia (funkcia: Managing Editor, section Cellular and Molecular Biology)
Enzyme and Microbial Technology (funkcia: Editorial Board member)
Journal of Applied Glycoscience (funkcia: Editorial Board member)
Molecules, section Bioorganic Chemistry (funkcia: Editorial Board member)
Nova Biotechnologica et Chimica (funkcia: Editorial Board member)

RNDr. František Jurský, CSc.

Frontiers in Molecular Neuroscience (funkcia: Review editor)

Mgr. Ľuboš Kľučár, PhD.

Embnet.journal (funkcia: člen Executive Editorial Board)

RNDr. Ján Kormanec, DrSc.

International Journal of Molecular Sciences (funkcia: member of Editorial board)

Mgr. Naďa Labajová, PhD.

Frontiers in Microbiology (funkcia: Review editor)

Ing. Juraj Majtán, DrSc.

Asian Pacific Journal of Tropical Biomedicine (funkcia: člen edičnej rady)
Evidence-Based Complementary and Alternative Medicine (funkcia: člen edičnej rady)
Frontiers in Microbiology (section: Food Microbiology) (funkcia: člen edičnej rady)
Heliyon (funkcia: člen edičnej rady)
Molecules (funkcia: člen edičnej rady)
Scientific Reports (funkcia: člen edičnej rady)
Včelár (funkcia: člen redakčnej rady)

RNDr. Marcel Zámocký, DrSc.

Antioxidants Basel (MDPI) (funkcia: topic editor)
Biology Basel (MDPI) (funkcia: guest editor)
Frontiers in Molecular Biosciences (funkcia: guest editor)
The Open Biochemistry Journal (funkcia: člen)

9.6. Činnosť v domácich vedeckých spoločnostiach

RNDr. Ján Kormanec, DrSc.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (funkcia: člen výboru)

Ing. Juraj Majtán, DrSc.

Slovenská apiterapeutická spoločnosť (funkcia: člen výboru spoločnosti)

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		4577
z toho	knihy a zviazané periodiká	4577
	audiovizuálne dokumenty	
	elektronické dokumenty (vrátane digitálnych)	
	mikroformy	
	iné špeciálne dokumenty - dizertácie, výskumné správy	
	Rukopisy, vzácne tlače	
Počet titulov dochádzajúcich periodík		
z toho zahraničné periodiká		
Ročný prírastok knižničných jednotiek		
v tom	kúpou	
	darom	
	výmenou	
	bezodplatným prevodom	
	náhradou	
Úbytky knižničných jednotiek		
Knižničné jednotky spracované automatizovane		

*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)		
v tom z r. 1	prezenčné výpožičky	
	absenčné výpožičky	
v tom z r. 1	odborná literatúra pre dospelých	
	výpožičky periodík	
MVS iným knižniciam		
MVS z iných knižníc		
MMVS iným knižniciam		
MMVS z iných knižníc		
Počet vypracovaných bibliografií		

Počet vypracovaných rešerší	

10.3. Používatelia

Tabuľka 10c Používatelia

Registrovaní používatelia	
Návštevníci knižnice spolu (bez návštevníkov podujatí)	

10.4. Iné údaje

Tabuľka 10d Iné údaje

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

10.5. Iné informácie o knižničnej činnosti

Od roku 2009 je výpožičná služba knižnice pozastavená.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

Mgr. Ľuboš Kľučár, PhD.

- člen
- predseda II. komory

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo v komisiách SAV

RNDr. Imrich Barák, DrSc.

- Akreditačná komisia SAV (člen)
- Komisia SAV pre medzinárodnú vedecko-technickú spoluprácu (člen)

Mgr. Ľuboš Kľučár, PhD.

- Akreditačná komisia SAV (člen)
- Komisia pre transformáciu SAV (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre zahraničné styky (člen)

RNDr. Ján Kormanec, DrSc.

- Komisia pre posudzovanie vedeckej kvalifikácie (člen)

RNDr. Katarína Muchová, CSc.

- Komisia SAV pre životné prostredie a klimatickú zmenu (tajomníčka)

Mgr. Renáta Nováková, CSc.

- Etická komisia SAV (člen)

11.4. Členstvo v orgánoch VEGA

RNDr. Imrich Barák, DrSc.

- Komisia VEGA č. 4 pre biologické vedy (predseda)

Ing. Juraj Majtán, DrSc.

- Komisia VEGA č. 4 (člen)

12. Hospodárenie organizácie

12.1. Výdavky organizácie

Tabuľka 12a Výdavky organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**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	2 394 027	1 690 863	637 078	66 086	70,63
z toho: mzdy (610)	1 181 926	990 170	173 193	18 563	83,78
vedecká výchova štipendiá (640)	136 338	136 338			100
poistné a príspevok do poisťovní (620)	410 423	343 033	60 331	7 059	83,58
tovary a služby (630)	468 283	197 822	236 100	34 361	42,24
transfery partnerom projektov (640)	167 453		167 453		0
2. Kapitálové výdavky	68 394	47 640	20 754		69,66
z toho: obstarávanie kapitálových aktív	68 394	47 640	20 754		69,66
kapitálové transfery					

12.2. Zdroje financovania organizácie

Tabuľka 12b Zdroje financovania organizácie (skutočnosť k 31. 12. 2022 v €)

Typ organizácie (v. v. i.)		**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)	1 738 503	47 640	990 170	343 33	
z toho: VEGA	113 895				
MVTS výskumné projekty	41 996			1 737	
MVTS podpora					
SASPRO/MOREPRO					
Vydávanie časopisov	7 371			459	
Vedecká výchova (štipendiá)	136 338				
OTAS (630)	36 756				

2. ŠF EÚ vr. fin. zo ŠR	206 278		81 782	28 413	68 884
3. medzinárodné grantové projekty	77 911	17 760	18 562	7 050	
z toho: H2020					
4. iné štátne a verejné zdroje (spolu)	430 800		91 411	31 919	98 569
z toho: APVV	430 800		91 411	31 919	98 569
podpora z kapitoly MŠVVaŠ SR (stimuly)					
5. ostatné zdroje	27 025				
z toho: príjmy z prenájmu	6 356				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	18 787				

13. Nadácie a fondy pri organizácii SAV

nemáme

14. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

14.1. Stručné hodnotenie stavu uplatňovania princípov rodovej rovnosti v organizácii, súvisiace aktivity a opatrenia, návrhy na aktualizáciu Plánu rodovej rovnosti SAV

Naše pracovisko dodržiava a uplatňuje princípy rodovej rovnosti v organizácii. Naši zamestnanci sú zapojení do spolupráce a súčinnosti pri aktivitách projektu ATHENA v rámci rodového auditu. Konkrétne, realizácie dotazníkového prieskumu so zameraním sa na vzťahy medzi mužmi a ženami vo vede a na pracovisku. V nasledujúcom období vedenie ústavu bude viac zamerané na zisťovanie, či prijaté opatrenia a aktivity vedenia ústavu nebudú mať negatívny dopad na rodovú rovnosť.

14.2. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Tabuľka 14a Rodová skladba hlavných riešiteľov domácich projektov

ŠTRUKTÚRA PROJEKTOV	Organizácia SAV je nositeľom projektu			Organizácia SAV je zmluvným partnerom		
	Počet	Hlavný riešiteľ		Počet	Hlavný riešiteľ za organizáciu	
		Muž	Žena		Muž	Žena
1. Projekty VEGA	13	9	4	1	0	1
2. Projekty APVV	9	7	2	7	7	0
3. Projekty EŠIF/OP ŠF	0	0	0	1	1	0
4. Projekty SASPRO, MoRePro, IMPULZ	0	0	0	0	0	0
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	1	0	0	0

Tabuľka 14b Rodová skladba hlavných riešiteľov medzinárodných projektov

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

14.3. Výskum zameraný na rodovú problematiku

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

Naša organizácia zatiaľ nie je zapojená do projektov orientovaných na rodovú problematiku.

15. Iné významné činnosti organizácie SAV

ÚMB SAV, v. v. i. sa aktívne zúčastňuje činností iniciatívy „Veda chce žiť!" (www.vedachcezit.sk), ktorú založili vedeckí pracovníci v roku 2014. Táto nezávislá iniciatíva vznikla s cieľom upozorňovať na problémy vedy, výskumu a vzdelávania na Slovensku a podporovať pozitívne zmeny v týchto oblastiach. K iniciatíve sa rýchlo pripojila veľká časť vedeckej komunity na SAV, ale aj zástupcovia univerzít a širokej verejnosti. V roku 2022 sa hovorca iniciatívy RNDr. Imrich Barák, DrSc. zúčastnil panelovej diskusie platformy Žijem vedu o financovaní vedy na Slovensku.

ÚMB SAV, v. v. i. vykonáva od roku 1999 s mandátom MŠVVaŠ SR funkciu Národného uzla organizácie EMBnet (The Global Bioinformatics Network). Táto organizácia vznikla v roku 1988 za účelom spojiť jednotlivé európske pracoviská, ktoré sa zaoberajú využitím bioinformatiky a *in silico* analýzy. Hlavnou náplňou činnosti Národného uzla je administrácia rozsiahleho biologického výpočtového systému, školenia a kurzy zamerané na ich využitie, ako aj spolupráca s inými vedeckými projektmi v oblasti bioinformatiky. Národný uzol je jediným slovenským centrom, ktoré udržiava a poskytuje analyzačné balíky Galaxy a Chipster určené na analýzu high-throughput dát (DNA čipy, NGS) pre potreby národnej vedeckej komunity. Naše pracovisko sa priamo podieľa aj na tvorbe medzinárodného peer-review časopisu EMBnet.journal (journal.embnet.org), zameraného hlavne na praktickú bioinformatiku.
ÚMB SAV, v. v. i. je sídlom redakcie medzinárodného časopisu Biológia (Botany, Zoology and Cellular and Molecular Biology) evidovaného v Current Contens a Web of Science pričom došlo významnému zlepšeniu IF časopisu z IF 2020: 1,350 na IF 2021: 1,653; časopis je od roku 2018 pod vydavateľstvom Springer.

16. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2022

16.1. Domáce ocenenia

16.1.1. Ocenenia SAV

Bauer Jacob
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Bauerová Vladena
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Havalová Henrieta
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Kunová Nina
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Kutejová Eva
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni.

Kutejová Eva
Čestná plaketa SAV Dionýza Blaškoviča
Oceňovateľ: Predsedníctvo SAV
Opis: Cena bola udelená za významné výsledky dosiahnuté v odbore biochémia na Ústave

molekulárnej biológie SAV, v. v. i. na základe rozhodnutia Predsedníctva SAV.

Martináková Lucia
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Ondrovičová Gabriela
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

Pevala Vladimír
Cena SAV za budovanie infraštruktúry pre vedu
Oceňovateľ: Predsedníctvo SAV
Opis: Predsedníctvo SAV udeľuje Cenu SAV za budovanie infraštruktúry pre vedu pracovnej skupine „Biochémia a štruktúra proteínov" pod vedením Ing. Evy Kutejovej, DrSc., za vybudovanie prvého laboratória pre automatizovanú kryštalizáciu proteínov na Slovensku v rámci spoločného projektu Interreg Slovakia-Austria v spolupráci s Univerzitou vo Viedni. Člen pracovnej skupiny.

16.1.2. Iné domáce ocenenia

Barák Imrich
Cena Dr. Ludmily Sedlárovej Rabanovej za rok 2020
Oceňovateľ: Natura, občianske združenie

Bučeková Marcela
Cena za transfer technológií na Slovensku
Oceňovateľ: CVTI SR
Opis: Cena za projekt "Medové laboratórium" v kategórii Počin v oblasti transferu technológií.

Bučeková Marcela
Zlatý kosák 2022
Oceňovateľ: Ministerstvo pôdohospodárstva a rozvoja vidieka Slovenskej republiky
Opis: Cena v súťaži exponátov na Medzinárodnej poľnohospodárskej a potravinárskej výstave AGROKOMPLEX 2022 v Nitre v kategórii Veda a výskum za unikátnosť vývinu metódy stanovenia antibakteriálnej aktivity medu v európskom meradle.

Majtán Juraj
Cena za transfer technológií na Slovensku
Oceňovateľ: Centrum vedecko-technických informácií SR
Opis: Cena za projekt "Medové laboratórium" v kategórii Počin v oblasti transferu technológií.

Majtán Juraj
Zlatý kosák 2022
Oceňovateľ: Ministerstvo pôdohospodárstva a rozvoja vidieka Slovenskej republiky
Opis: Titul udelený za metódu stanovenia antibakteriálneho potenciálu medu v rámci medzinárodnej výstavy Agrokomplex v Nitre 2022

16.2. Medzinárodné ocenenia

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

V roku 2022 nebola prijatá žiadna žiadosť o prístup k informáciám.

18. Problémy a podnety pre činnosť SAV

Podpora marketingových aktivít P SAV v komercializácii vedeckých výsledkov
Orientácia na aplikovaný výskum a predovšetkým komercializácia vedeckých výstupov v rámci ústavov SAV predstavuje dôležitý krok k získavaniu ďalších finančných prostriedkov. Odporúčania meta-panelu v ostatnom akreditačnom hodnotení ústavov SAV jasne poukazujú na nedostatok komercializácie výsledkov. Pre komerčné použitie získaných výsledkov je potrebné o nich informovať širokú verejnosť, resp. podniknúť ďalšie nevyhnutné marketingové kroky. Keďže naštartovanie marketingových aktivít, ako sú napr. založenie webovej stránky a registrácia ochranných známok je finančne náročnejšie, uvítali by sme v tomto smere aktivity P SAV napr. formou podpory najlepších komerčných projektov, ktoré by boli hodnotené novo-vymenovanou komisiou P SAV a ktoré majú najväčší komerčný potenciál. Mohlo by sa jednať o tzv. „štartovací balíček“ v celkovej hodnote rádovo 5000 eur na pokrytie základných marketingových potrieb.

ÚMB SAV, v. v. i. navrhuje, aby P SAV spolu s vedením jednotlivých ústavov hľadalo riešenie pre efektívnejšie využívanie špičkových prístrojov, ktoré ústavy či centrá získali zo štrukturálnych a iných verejných zdrojov a ktoré by mali záujem využívať aj iní pracovníci. Všeobecná dostupnosť a prípadne odborný servis tu neexistuje. Údaje, ktoré sa dajú získať z webovej stránky SAV (Výskumná infraštruktúra SAV) sú nevyhovujúce, často neúplné, bez potrebných detailov. Koordinácia využívania vysoko sofistikovaných, špičkových prístrojov by určite viedla k zlepšeniu spolupráce medzi jednotlivými pracoviskami, ich vedeckých výstupov a hodnotenia SAV ako vedeckej inštitúcie.

Privítali by sme väčšiu finančnú podporu Fondu Štefana Schwarza tak, aby v prípade výskytu viacerých vysoko kvalitných projektov ich bolo možné financovať. Je veľmi dôležité, aby nám talentovaní mladí vedeckí pracovníci neodchádzali do zahraničia alebo do komerčnej sféry.

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Lucia Bocánová, PhD., 02 5930 7440

Schválila vedecká rada organizácie SAV dňa 26.1.2023

Riaditeľ organizácie SAV	**Predseda vedeckej rady**
.....	.....
Ing. Eva Kutejová, DrSc.	Mgr. Ľuboš Kľučár, PhD.

Prílohy

Príloha A
Zoznam zamestnancov a doktorandov organizácie k 31.12.2022

Zoznam zamestnancov podľa štruktúry

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	RNDr. Imrich Barák, DrSc.	100	1.00
2.	prof. Ing. Štefan Janeček, DrSc.	100	1.00
3.	RNDr. Ján Kormanec, DrSc.	100	1.00
4.	Ing. Eva Kutejová, DrSc.	100	1.00
5.	Ing. Juraj Majtán, DrSc.	100	1.00
6.	Dr. Domenico Pangallo, DrSc.	100	1.00
7.	RNDr. Marcel Zámocký, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Mgr. Martina Baliová, PhD.	100	1.00
2.	Jacob Bauer, PhD.	100	1.00
3.	Mgr. Vladena Bauerová, PhD.	100	1.00
4.	Mgr. Marcela Bučeková, PhD.	100	1.00
5.	RNDr. Mária Bučková, PhD.	100	1.00
6.	RNDr. Gabriela Bukovská, CSc.	100	1.00
7.	RNDr. Jarmila Farkašovská, CSc.	100	1.00
8.	RNDr. Marian Farkašovský, CSc.	100	1.00
9.	RNDr. Peter Ferianc, CSc.	100	1.00
10.	RNDr. Nora Halgašová, PhD.	100	1.00
11.	RNDr. Dagmar Homerová, CSc.	100	1.00
12.	RNDr. Katarína Chovanová, PhD.	100	1.00
13.	Mgr. Zuzana Chromiková, PhD.	100	1.00
14.	RNDr. František Jurský, CSc.	100	1.00
15.	Mgr. Ľuboš Kľučár, PhD.	100	1.00
16.	Ing. Daniela Krajčíková, CSc.	100	1.00
17.	Mgr. Lucia Kraková, PhD.	100	0.50
18.	Mgr. Vladimír Leksa, PhD.	100	1.00
19.	RNDr. Katarína Muchová, CSc.	100	1.00
20.	Mgr. Renáta Nováková, CSc.	100	1.00

21.	Ing. Gabriela Ondrovičová, PhD.	100	1.00
22.	RNDr. Vladimír Pevala, PhD.	100	1.00
23.	Mgr. Andrea Puškárová, PhD.	100	1.00
24.	RNDr. Ľubica Urbániková, CSc.	100	1.00
Vedeckí pracovníci			
1.	Mgr. Gábor Beke, PhD.	100	1.00
2.	RNDr. Lucia Bocánová, PhD.	100	1.00
3.	Mgr. Zuzana Farkas, PhD.	100	1.00
4.	Mgr. Marek Gabriško, PhD.	100	1.00
5.	RNDr. Mária Kajsiková, PhD.	100	1.00
6.	RNDr. Romana Kalianková Chovanová, PhD.	100	1.00
7.	Mgr. Nina Kunová, PhD.	100	1.00
8.	Mgr. Naďa Labajová, PhD.	100	1.00
9.	Mgr. Filip Mareček, PhD.	100	1.00
10.	MSc. Jelena Pavlović, PhD.	100	0.42
11.	Mgr. Matej Planý, PhD.	100	0.83
12.	Mgr. Matej Stano, PhD.	10	0.10
13.	Mgr. Barbora Stojkovičová, PhD.	100	0.42
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Mgr. Veronika Bellová	100	0.42
2.	RNDr. Ľubomíra Fecková	100	1.00
3.	Ing. Jana Godočíková	100	1.00
4.	Ing. Janka Harichová	100	1.00
5.	Mgr. Henrieta Havalová	8	0.06
6.	Mgr. Diana Hubertová	100	0.20
7.	Mgr. Lucia Martináková	100	1.00
8.	Mgr. Filip Opaterný	100	1.00
9.	Mgr. Romana Praženicová	8	0.07
10.	Ing. Bronislava Řežuchová	100	1.00
11.	RNDr. Beatrica Ševčíková	100	1.00
12.	Mgr. Andrea Vetráková	100	1.00
13.	Mgr. Eszter Zsemlye	5	0.08
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Ing. Alžbeta Janečková	50	0.50
2.	Ing. Eva Okoličányiová	50	0.46

3.	Ing. Dana Rybárová	100	1.00
4.	Ing. Anna Varcholová	100	0.80
Odborní pracovníci ÚSV			
1.	Renáta Knirschová	100	1.00
2.	Katarína Kválová	100	1.00
3.	Erika Poleková	100	1.00
4.	Katarína Semešová Pírová	100	1.00
5.	Kristína Zvarová	50	0.50
Ostatní pracovníci			
1.	Miroslav Buran	70	0.70
2.	Valéria Csonková	100	1.00
3.	Andrea Dávidová	100	1.00
4.	Martin Goliaš	130	1.30
5.	Marieta Hronská	100	1.00
6.	Dáša Jašková	100	1.00
7.	Karol Ondrovič	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	RNDr. Dagmar Homerová, CSc.	31.12.2022	1.00
Vedeckí pracovníci			
1.	RNDr. Andrea Kuchtová, PhD.	30.11.2022	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MSc. Radoslava Rechtoríková	31.8.2022	0.30
2.	Mgr. Eszter Zsemlye	31.12.2022	0.08
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Zuzana Juríková	30.9.2022	0.33

Zoznam doktorandov

	Meno s titulmi	**Škola/fakulta**	**Študijný odbor**
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Dominika Csölleiová	Prírodovedecká fakulta UK	
2.	Mgr. Henrieta Havalová	Prírodovedecká fakulta UK	1420 chémia
3.	Mgr. Milan Hučko	Prírodovedecká fakulta UK	1536 biológia

4.	Mgr. Iveta Jahodová	Prírodovedecká fakulta UK	1420 chémia
5.	Mgr. Ráchel Javorová	Prírodovedecká fakulta UK	1536 biológia
6.	Ing. Evelína Kalocsaiová	Prírodovedecká fakulta UK	
7.	Mgr. Nikola Klištincová	Prírodovedecká fakulta UK	1536 biológia
8.	Mgr. Bohuš Kubala	Prírodovedecká fakulta UK	1536 biológia
9.	Dr. Francesca Maisto	Prírodovedecká fakulta UK	1536 biológia
10.	Mgr. Kristina Pápayová	Prírodovedecká fakulta UK	1536 biológia
11.	Mgr. Adam Poláček	Prírodovedecká fakulta UK	1420 chémia
12.	Mgr. Andrej Poljovka	Prírodovedecká fakulta UK	1536 biológia
13.	Mgr. Romana Praženicová	Prírodovedecká fakulta UK	1420 chémia
14.	Mgr. Magdaléna Rusková	Prírodovedecká fakulta UK	1536 biológia
15.	Mgr. Monika Zámocká	Prírodovedecká fakulta UK	1536 biológia
16.	Mgr. Silvia Žarnovičanová	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hradení z iných zdrojov			
organizácia nemá interných doktorandov hradených z iných zdrojov			
Externí doktorandi			
1.	Mgr. Veronika Bugárová	Prírodovedecká fakulta UK	
2.	Mgr. Filip Opaterný	Prírodovedecká fakulta UK	1536 biológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	MSc. Jelena Pavlović, PhD.	22.8.2022	23.8.2022	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha B
Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Štatistické techniky a techniky strojového učenia v štúdiách ľudských mikrobiómov *(Statistical and machine learning techniques in human microbiome studies)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	22.2.2019 / 21.2.2023
Evidenčné číslo projektu:	COST Action CA18131
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University College Cork
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0

Dosiahnuté výsledky:
Naše pracovisko sa do tohto COST projektu zapojilo v 1. polovici roku 2022. Ľ. Kľučár sa zúčastnil dvoch projektových stretnutí (jún 2022 v Tirane, Albánsko a v auguste 2022 v Turku, Fínsko). Ľ. Kľučár je členom wg4 "Dissemination and training", v rámci ktorej aktívne participuje na organizovaní tréningových aktivít, hlavne ML4Microbiome Workshop on Data-Intensive Microbiome Research vo fínskom Turku (august 2022) a ML4Microbiome Training School 2022 v španielskej Barcelone (september 2022).

Programy: INTERREG

2.) Budovanie výukových a výskumných kapacít v štruktúrnej a funkčnej analýze biomolekúl pre potreby biomedicíny a biotechnológií *(Building learning and research capacities in the structure and functional analysis of biomolecules for the needs of biomedicine and biotechnology)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.5.2019 / 30.4.2022
Evidenčné číslo projektu:	305011X666
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Rakúsko: 1, Slovensko: 1
Čerpané financie:	Interreg Slovakia-Austria, European Regional Development Fund: 30722 €

Dosiahnuté výsledky:
V rámci Open Access programu sme pre skupinu prof. Tomášku z PriF UK testovali tepelnú stabilitu Tay1 proteínu z kvasinky Yarrowia lipolytica na nanoDSF prístroji a optimalizovali podmienky izolácie a jeho kryštalizácie. Kryštalizovali sme pre skupinu Dr. Škrabanu (Neuroimunologický ústav SAV, v. v. i.) proteíny Tau v komplexe s protilátkami, ktorý je dôležitý pre vývoj neurodegeneratívnych ochorení u ľudí (Alzheimerova choroba). Kryštalizácia bola úspešná pre oba proteíny/projekty a následne sa merali X-ray difrakcie na synchrotróne v

Hamburgu. V projektoch sa bude naďalej pokračovať. Okrem toho sa kryštalizovali domény hRyR2 a peroxidázy-katalázy z Magnaporthe grisea a Chaetomium thermophilum.
Pomocou nanoDSF sme analyzovali tepelnú denaturáciu a stabilitu proteínov: Mmi1, TFAM, Hsp10, Hsp60, Trap1, Hsp70, Hep1, GrpE1, TiD1S, hRyR2, glukózooxidázy z Aspergillus niger, peroxidázy-katalázy z Magnaporthe grisea a Chaetomium thermophilum, chitinázy z Drosera rotundifolia, endolyzín EN534-C z profága Streptococcus agalactiae, lytickej transglykozylázy z bakteriofága BFK20 (Brevibacterium flavum).
Organizovali sme workshop 2nd StruBioMol Workshop: Isolation, Characterization and Crystallization of Proteins, 14.06.2022 – 15.06.2022, Bratislava. Na workshope prednášali experti zo zahraničia - Pavlina Maloy Rezacova (ÚOCHB, Praha), Sami Kereiche (1. Lekárska fakulta UK, Praha), Kristina Djinovic Carugo (The Max Perutz Labs, University Vienna), Cyril Bařinka (BIOCEV, Praha), Antonio Sponga (The Max Perutz Labs, University Vienna) a domáci experti - Jacob Bauer a Vladena Bauerová (ÚMB SAV, v. v. i.). Workshop mal aj praktické časti „Practicals on nanoDSF and thermofluor“ a „Practicals on crystallisation“.

Spoluorganizovali sme tiež workshop s názvom „3rd StruBioMol Workshop: Macromolecular structure determination, analysis and validation“ 02. – 03. novembra 2022, ktorého sa zúčastnili záujemcovia z Bratislavského a Viedenského regiónu a EÚ –19 účastníkov praktickej časti a 15 účastníkov aj prednáškovej časti (online cez ZOOM). Na workshope predniesli prednášku traja prednášatelia z Rakúska (Kristína Djinovic-Carugo) a Slovenska (Jacob A. Bauer a Vladena Bauerová-Hlinková). Workshop mal tri praktické časti.

Uskutočnilo sa záverečné stretnutie v sídle vedúceho partnera (ÚMB SAV, v. v. i.) za účasti výskumných a administratívnych tímov oboch partnerov. Zároveň boli pozvaní zástupcovia strategických partnerov a kontaktných miest programu. Poskytli sa informácie o dosiahnutých výstupoch, aktivitách a cieľoch projektu.

Vyžiadané prednášky
Kutejova, E., Kunová, N., Ondrovičová, G., Stojkovičová, B., Frankovský, J., Kereiche, S., Lukáčová, V., Krajčovičová, V., Havalová, H., Bauer, A.J., Pevala, V., Baráth, P., Tomáška. Ľ.
Lon protease – the essential component of mitochondrial homeostasis.
Chemistry towards Biology (CTB10) – Instruct Conference; 11-14 September, 2022; Bratislava, Slovakia

Pevala, V., Ondrovičová, G., Kunová, N., Stojkovičová, B., Martináková, L., Havalová, H., Bauerová, V., Bauer, A.J., Košťan,J., Djinović-Carugo, K., Kutejova, E.
A new Slovak center for research and teaching activities in structural biology – Interreg V-A Slovakia – Austri,a project StruBioMol
Chemistry towards Biology (CTB10) – Instruct Conference; 11-14 September, 2022; Bratislava, Slovakia

Bauer, A.J. and Bauerová-Hlinková, V.
The effect of the mutations on the dynamic motion of the N terminal domain of the human ryanodine receptor 2: towards deeper understanding of cardiac arrhythmias.
Chemistry towards Biology (CTB10) – Instruct Conference; 11-14 September, 2022; Bratislava, Slovakia

Vybraná prednáška:
Stojkovičová B., Ondrovičová G., Bellová J., Lukáčová V., Kunová N., Hodorová V., Havalová H., Martináková L., Procházková K., Tomáška Ľ., Horváth A., Baráth P., Brejová B., Nosek J., Kutejová E., Pevala V.
The story of yeast Lon protease in the mitochondrial DNA maintenance and assembly of respiratory

chain complexes
Mitochondria: Past and Present Evolution, Proteostasis, Dynamics and Disease, 11.- 17. november 2022, Israel

Plagátové oznámenia:
EMBO Workshop: Molecular biology of mitochondrial gene maintenance and expression, Bro, Sweden od 15.-19. mája, 2022, poster: The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids, Vladimír Pevala, https://meetings.embo.org/event/22-mitochondria

Yeast Genetics Meeting 2022, 17. - 21. August, 2022, University of California, Los Angeles, USA (poster): The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids, prof. Tomáška, https://genetics-gsa.org/yeast-2022/#

Cell Symposia: Multifaceted Mitochondria, 6. - 8. November 2022, Seville, Spain (poster): Phosphorylation of human mitochondrial LON protease disrupts its functions, Gabriela Ondrovičová, Nina Kunová a Henrieta Havalová, https://www.cell-symposia.com/mitochondria-2022/
Mitochondria: Past and Present Evolution, Proteostasis, Dynamics and Disease, 13.- 16. november 2022, Israel: Effects of post-translational modifications on mitochondrial nucleoid components Abf2 and Lon protease, Eva Kutejová, http://mito2022.org.il/

Instruct Biennial Structural Biology Conference Changes in structural biology: challenges in studying dynamics; Muntgebouw Utrecht, Netherlands. 18-20. 05. 2022.
Poster entitled „Alteration of the dynamic motion of the N-terminal domain of the human ryanodine receptor 2: a possible cause of several cardiac arrhythmias".
Jacob Bauer & Vladena Bauerová-Hlinková. P52, p. 68; https://instruct-eric.org/download/?file=Biennial_2022_Abstract_Booklet_2022.pdf&do=do,

Študentská Vedecká Konferencia PriFUK, Bratislava, 24. 04. 2022. Poster s názvom: "Doména „Repeat12" hRyR2 ako potenciálna väzobná štruktúra nízkomolekulových látok". Authors: A. Petrová, T. Hromádková, K. Beck, M. Zámocká, J. A. Bauer, V. Bauerová-Hlinková. Príspevok publikovaný v zborníku príspevkov ŠVK, https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_2022.pdf; str. 497-502.

Programy: Bilaterálne - iné

3.) Epidemiológia vody/odpadovej vody: Vývoj spoľahlivých molekulárno-biologických detekčných metód pre dohľad nad ohniskami epidémií *(Water/Wastewater epidemiology: Development of robust and reliable molecular detection systems for surveillance of disease outbreaks)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2023
Evidenčné číslo projektu:	MOST 108-2221-E-006 -160 -MY3
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Taiwan: 2
Čerpané financie:	SAS-MOST Joint Research Projects: 24996 €

Dosiahnuté výsledky:
V tomto roku sme vyvinuli niekoľko testov nested qPCR na detekciu SARS-CoV-2 vo vzorkách odpadových vôd. Bola vyvinutá nová vysokovýkonná sekvenčná stratégia založená na platforme MinION na identifikáciu mikrobioty a rezistómu vo vzorkách odpadových vôd.

Rusková, M., Bučková, M., Achs, A., Puškárová, A., Wu, J.H., Kuchta, T., Šubr, Z. and Pangallo, D., 2022. Useful molecular tools for facing next pandemic events: Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in wastewater environment. International Journal of Hygiene and Environmental Health, 245, p.114017.

4.) Trvalo udržateľná regenerácia vody založená na filtrácii keramickými membránami
(Sustainable Water Reclamation Based on Ceramic Membrane Filtration)

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.4.2020 / 31.3.2023
Evidenčné číslo projektu:	EIG_JC2019-058
Organizácia je koordinátorom projektu:	nie
Koordinátor:	TUBITAK, Marmara Research Center (TUBITAK MRC)
Počet spoluriešiteľských inštitúcií:	6 - Japonsko: 2, Slovensko: 2, Turecko: 2
Čerpané financie:	EIG Concert Japan: 17000 €

Dosiahnuté výsledky:
V tomto roku sme optimalizovali rôzne metódy real-time PCR s cieľom odhaliť gén mecA (prítomný v Staphylococcus aureus) vo vzorkách životného prostredia: voda, odpadová voda, častice plastov a mikroplastov. Zamerali sme sa aj na detekciu SARS-CoV-2 v odpadových vodách. Pokračujeme vo vývoji vysokovýkonných sekvenčných stratégií založených na platforme MinION na identifikáciu rezistómu vo vzorkách súvisiacich s vodou.

Rusková, M., Bučková, M., Achs, A., Puškárová, A., Wu, J.H., Kuchta, T., Šubr, Z. and Pangallo, D., 2022. Useful molecular tools for facing next pandemic events: Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in wastewater environment. International Journal of Hygiene and Environmental Health, 245, p.114017.

Domáce projekty

Programy: VEGA

1.) Regulácia interakčnej špecificity multi-PDZ proteínov

Zodpovedný riešiteľ:	Martina Baliová
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0127/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3555 €

Dosiahnuté výsledky:
Gamma-aminobutyrová kyselina (GABA) je majoritný inhibičný neurotransmiter v cicavčom nervovom systéme. Jej koncentrácia je regulovaná GABA transportérmi GAT1-GAT3 patriacimi do rodiny SLC6 sodíkovo/chloridovo-závislých transportérov. GABA transportér GAT1 je membránový proteín obsahujúci C-terminálny PDZ motív -ASKEAYI. V PDZ nomenklatúre sú aminokyselinové zvyšky číslované v opačnom poradí a začínajú nulou. Jadrový GAT1 C-terminálny motív je považovaný za typ II (AYI = FXF), kde F znamená hydrofóbnu aminokyselinu a X ľubovoľnu aminokyselinu. U tohto typu je PDZ interakcia zabezpečovaná hlavne F aminokyselinami v pozíciach 0 a -2. Použitím rôznych modelov PDZ domén a mutačnou analýzou sa nám podarilo ukázať, že GAT1 PDZ motív interaguje tiež pomocou schém 0,-1 a 0,-5. Okrem duálneho spôsobu interakcie, výsledky poukazujú na možnú reguláciu PDZ interakcie fosforyláciou.

Výstupy:
Jahodova I., Baliova M., Jursky. Dual interaction mode of the GABA transporter GAT1 PDZ motif. XXI. Setkání biochemikú a molekulárnich biologú BRNO 2022, page 66, ISBN 978-80-280-0136-0.

2.) Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. *(How the cell finds the asymetric site of septation during sporulation of Bacillus subtilis)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0001/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 14417 €

Dosiahnuté výsledky:
Tvorba spór v B. subtilis je úzko spojená s asymetrickým delením buniek. Sporulačné septum sa tvorí približne v 1/6 dĺžky bunky z jedného z bunkových pólov s vysokou presnosťou, ako sme ukázali predtým. Aj keď bolo predtým identifikovaných niekoľko proteínov, ktoré hrajú úlohu pri presnom umiestnení septa, mechanizmus, ktorý riadi tento proces, je stále neznámy. Aby sme zistili, či SpoIIE ako kľúčový hráč v asymetrickom delení priamo interaguje s proteínmi, ktoré môžu byť potrebné na správne umiestnenie asymetrického septa, spočiatku sme hľadali interakcie medzi SpoIIE a FtsZ, EzrA, MinJ, DivIVA a RefZ pomocou bakteriálneho dvojhybridneho (BACTH) systému. Napriek navrhovanej priamej interakcii medzi SpoIIE a FtsZ sme v tomto systéme nepozorovali žiadnu interakciu s FtsZ. Pozorovali sme interakciu SpoIIE s DivIVA; výsledok je v dobrej zhode s predtým zistenou interakciou DivIVA so SpoIIE v v asymetrickej prepážke. Okrem toho sme našli reprodukovateľné interakcie SpoIIE s RefZ, MinJ a EzrA.

Publikácia:
Z. Chromikova, R. Kaliankova-Chovanova, D. Tamindžija, B. Bartova, D. Radnovic, R. Bernier-Latmani, I. Barak (2022) Implantation of Bacillus pseudomycoides chromate transporter increases chromate tolerance in Bacillus subtilis. Frontiers Microbiol. 13: Art. 842623. doi: 10.3389/fmicb.2022.842623 (IF 5.64)

3.) Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2 *(Study of the effect of cardiac arrhythmia-associated mutations on the structure and function of the human ryanodine receptor 2)*

Zodpovedný riešiteľ:	Vladena Bauerová
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0131/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9167 €

Dosiahnuté výsledky:
V treťom roku riešenia projektu sme sa zamerali na expresiu, purifikáciu a čiastočnú charakterizáciu svorkovej oblasti ľudského ryanodínového receptora 2. Ako hlavné purifikačné kroky sme použili afinitnú chromatografiu a následne gélovú filtráciu. Pomocou nano-diferenčnej skenovacej fluorimetrie (nanoDSF) sme zistili teplotu topenia (cca 45-48°C) a optimalizovali purifikačné podmienky tejto domény. CD-spektroskopia potvrdila natívne zbalenie rekombinantne pripravenej svorkovej oblasti hRyR2. Okrem toho sme sa zamerali aj na luminálnu oblasť hRyR1 a hRyR2, kde sme identifikovali pravdepodobné vápnik-väzbové miesta. Výsledky sme prezentovali na viacerých medzinárodných a národných vedeckých podujatiach a časť z nich sme spracovali do publikačnej podoby.

Publikácie:
Extracting the Dynamic Motion of Proteins Using Normal Mode Analysis. Bauer JA, Bauerová-Hlinková V. Methods Mol Biol. 2022;2449:213-231. doi: 10.1007/978-1-0716-2095-3_9.

Vyžiadané prednášky, prednášky, plagátové oznámenia:
1. XVIII Discussions in Structural Molecular Biology and the 5th User Meeting of CIISB; Nové Hrady, 24-26. 03. 2022.
Prednáška s názvom „Structure-functional insights into the dantrolene binding site of the human cardiac ryanodine receptor: towards a deeper understanding of heart arrhythmias“. Prednášajúci: Vladena Bauerová. Abstrakt v AJ publikovaný v: https://www.xray.cz/setkani/abst2022/430.htm

2. Študentská Vedecká Konferencia PriFUK, Bratislava, 24. 04. 2022.
Poster s názvom: “ Doména „Repeat12“ hRyR2 ako potenciálna väzobná štruktúra nízkomolekulových látok“. Príspevok publikovaný v zborníku príspevkov ŠVK, Abstrakt publikovaný v: Abstrakt publikovaný v:
https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_2022.pdf; str. 497-502.

3. Instruct Biennial Structural Biology Conference Changes in structural biology: challenges in studying dynamics; Muntgebouw Utrecht, Netherlands. 18-20. 05. 2022.
Poster s názvom „Alteration of the dynamic motion of the N-terminal domain of the human ryanodine receptor 2: a possible cause of several cardiac arrhythmias”. Autori: Jacob Bauer & Vladena Bauerová-Hlinková. Abstrakt publikovaný v: https://instruct-eric.org/download/?file=Biennial_2022_Abstract_Booklet_2022.pdf&do=do, P52, s r. 68.

4. Chemistry towards Biology 10 Instruct. 11–14 September, 2022, Bratislava, Slovakia.
• Vyžiadaná prednáška s názvom: „The effect of the mutations on the dynamic motion of the N-terminal domain of the human ryanodine receptor 2: towards deeper understanding of cardiac

arrhythmias“, IL-7. Prednášajúci: V. Bauerová-Hlinková. Abstrakt publikovaný v: https://www.instruct.sav.sk/book_abstracts.pdf, str. 36.

• Prednáška s názvom „Interpreting Single-Molecule Force Spectroscopy Experiments with Normal Mode Analysis“, OP-10. Prednášajúci: Jacob A. Bauer. Abstrakt publikovaný v: https://www.instruct.sav.sk/book_abstracts.pdf, str. 57.

• Poster s názvom: Expression, purification, partial characterization and in-silico modeling of hRyR2 tandem Repeat1-2. P28. A. Petrová, T. Hromádková, K. Beck, M. Zámocká, J. A. Bauer, V. Bauerová-Hlinková. Abstrakt publikovaný v: https://www.instruct.sav.sk/book_abstracts.pdf, str. 106.

5. 2nd StruBioMol Workshop: Isolation, Characterization and Crystallization of Proteins, 14-15. 06. 2022, Ústav molekulárnej biológie SAV, Bratislava
• Prednáška s názvom: „Crystallization of macromolecules and Introduction to X-ray crystallography“. Prednášajúci: Jacob A. Bauer.
• Prednáška s názvom: „Protein Thermal Stability – differential scanning fluorimetry or How do I make my protein happy?“. Prednášajúci: Vladena Bauerová.

6. 3rd StruBioMol Workshop: Macromolecular Structure Determination, analysis and validation. 2-3. 11. 2022, Max Perutz Laboratories, University of Vienna, Vienna, Austria
• Vyžiadaná prednáška s názvom: „Model Validation with Databases“. Prednášajúci: Jacob A. Bauer.
• Vyžiadaná prednáška s názvom: „Model Building and Refinement“. Prednášajúci: Jacob A. Bauer.
• Vyžiadaná prednáška s názvom: „Protein structure determination: solution of phase problem“. Prednášajúci: Vladena Bauerová.

7. The Closing meeting of the project StruBioMol - Interreg V-A Slovakia – Austria. 28.11.2022, Ústav molekulárnej biológie SAV, v. v. i., Bratislava
• Prednáška: „Proteins of interest with application to medicine and biotechnology“. Prednášajúci: Jacob A. Bauer.

4.) Príprava mutantných lytických a replikačných proteínov bakteriofágov a ich antibakteriálny potenciál. *(Preparation of mutant lytic and replication proteins of bacteriophages and their antibacterial potential)*

Zodpovedný riešiteľ:	Gabriela Bukovská
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0079/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 8674 €

Dosiahnuté výsledky:
Projekt je pokračovaním štúdia bakteriofágov a ich lytických a replikačných proteínov. Z profágov klinických kmeňov Streptococcus agalactiae (GBS) sme doteraz izolovali a charakterizovali dva endolyzíny. Endolyzín EN572_5 (52,9 KDa) obsahuje dve katalytické domény: amidáza_5, glukozaminidáza a jednu väzbovú doménu Cpl-7. Lytické spektrum sme stanovili na 26 izolátoch GBS (s rôznym sérotypom a sekvenčným typom); dvoch izolátoch S. dysgalactiae a štyroch

izolátoch uropatogénnej E. coli (UPEC). Lytická aktivita bola v priemere 82 % pre GBS a S. dysgalactiae a 19 % pre UPEC. Lytický potenciál EN572_5 sme začali testovať aj na modeli infekcie močových ciest v podmienkach in vitro aj in vivo. V in vitro podmienkach sme po 24 h od aplikácie endolyzínu pozorovali pokles CFU/ml v moči o 3 log10. V prípade myšacieho modelu UTI sa nám zatiaľ nepodarilo jednoznačne preukázať lytický potenciál EN572_5. Pre endolyzín EN534-C sme určili jeho termostabilitu v teplotnom rozmedzí od 30°C do 90°C. Následne sme stanovili CFU/60min: 1x10E3 (30°C); 5x10E2 (37°C); 7x10E2 (40°C) a 5x10E6 (50°C); kontrola 2x10E8. Metódou nanoDSF sme určili optimálne podmienky pre izolovaný proteín: pH 7,0 – 8,0; tlmivý roztok HEPES, MOPS a Tris-HCl, a zistili sme, že CaCl2 v tlmivom roztoku stabilizuje proteín. Lytickú aktivitu EN534-C sme potvrdili na 40-tich bakteriálnych kmeňoch pomocou kvapkového testu (drop testu) . Zbierka obsahovala 30 klinických kmeňov GBS, štyri kmene S. dysgalactiae, dva kmene Staphylococcus aureus, štyri klinické kmene E. coli. Z testovaných klinických kmeňov GBS sme zatiaľ potvrdili schopnosť vytvárať silný biofilm u troch kmeňov KMB-534, KMB-884 a KMB-823; u KMB-572 stredne silný biofilm a u zbierkového kmeňa S. agalactiae CCM 6187 nebola potvrdená tvorba biofilmu. Na kmeňoch S. agalactiae KMB-884 a KMB-534 sme potvrdili eradikáciu vytvoreného biofilmu vplyvom endolyzínu.
Chvostíkový proteín gp15 bakteriofága BFK20 obsahuje v C koncovej oblasti lytickú SLT doménu. Pripravili sme viacero konštruktov s dĺžkou SLT fragmentu od 288 bp do 405 bp. Izolovali sme rekombinantné proteíny SLT01, SLT02, SLT04 a SLT05 a pomocou nanoDSF sme stanovili ich termálnu stabilitu v rozsahu teplôt od 20°C do 90°C. Testovali sme renaturáciu proteínov, pričom SLT01, SLT02 a SLT05 sa renaturovali na 80 %. Proteíny SLT02 a SLT05 boli stabilné v rozsahu pH 5,0 – 8,4 s najvyššou stabilitou v kyseline jantárovej pri pH 5,4.
Pokračovali sme v charakterizácii iniciačného replikačného proteínu ROBP bakteriofága phiBP. Upravili sme postup izolácie rekombinantného proteínu gpRO-HC tak, aby sme ho získali v čo najčistejšej forme a eliminovali vplyv kontaminujúcich proteínov na jeho ATPázovú aktivitu. Izolovali sme bodový mutant gpRO-HCK8A pomocou afinitnej chromatografie a gélovej filtrácie na kolóne Superdex 200 Increase a testovali jeho ATPázovú aktivitu. Zistili sme, že je niekoľkonásobne vyššia než aktivita proteínu gpRO-HC, ktorý obsahuje nemutovanú sekvenciu. Začali sme prácu na príprave ďalších dvoch bodových mutantov proteínu gp41 - helikázy z rodiny SF2 fága BFK20, konkrétne so zameneným alanínom v polohe 160 za kyselinu glutámovú a fenylalanínom v polohe 243 za alanín.

5.) Skladanie septínového komplexu do štruktúr vyššieho poriadku. *(Assembly of Septin Complex to Higher Order Structures.)*

Zodpovedný riešiteľ:	Marian Farkašovský
Trvanie projektu:	1.1.2019 / 31.12.2022
Evidenčné číslo projektu:	2/0003/19
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 4995 €

Dosiahnuté výsledky:
Fosforylácia proteínov je považovaná za jeden z hlavných kontrolných mechanizmov, ktoré regulujú väčšinu aspektov života bunky a ovplyvňujú okolo 30% proteómu. Ako sme ukázali, fosforylácia septínov kinázou CDK/G1 cyklín môže byť jedným z mechanizmov, ktorým sa indukuje depolymerizácia septínových filamentov po ukončení cytokinézy. Použitím hmotnostnej spektrometrie sme identifikovali fosforylované miesta v kvasinkových septínoch pri rôznych

podmienkach. Pozorovali sme, že určité aminokyselinové zvyšky sú fosforylované in vivo v NC rozhraní Cdc11, terminálnej podjednotke, ktorá uskutočňuje tvorbu filamentov cez jej rozhranie. Na základe týchto aminokyselinových zvyškov sme navrhli fosfomimetické a nefosforylovateľné mutanty. Tieto mutanty spôsobujú v kvasinkových bunkách vážne defekty v cytokinéze. Heterológne exprimované mutantné proteíny boli testované in vitro. Polymerizácia septínových mutantných proteínov bola pozorovaná pomocou fluorescenčnej a elektrónovej mikroskopie a analyzovaná pomocou sedimentačnej analýzy, pomocou dynamic light scattering a dvojhybridným systémom. Naše výsledky ukazujú, že fosforylácia aminokyselinových zvyškov, identifikovaných v našom laboratóriu, udržuje septíny v cytoplazme v nepolymerizovanej forme, a že tvorba filamentov je indukovaná na lipidovej membráne pomocou určitých proteínov (napr. Gic1, Syp1).

6.) Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov

Zodpovedný riešiteľ:	Monika Hofbauerová
Zodpovedný riešiteľ v organizácii SAV:	Mária Bučková
Trvanie projektu:	1.1.2022 / 31.12.2024
Evidenčné číslo projektu:	2/0082/22
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fyzikálny ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3950 €

Dosiahnuté výsledky:
Hodnotili sme ochrannú a dezinfekčnú aktivitu esenciálnych olejov z oregana a tymiánu zapuzdrených v poly(?-kaprolaktónových) nanokapsulách (Or-NCs,Th-NCs) proti štyrom typom environmentálnych mikroorganizmov: Pleurotus eryngii, Purpureocillium lilacinum (plesňové kmene) a Pseudomonas vancouverensis, Flavobacterium sp. (bakteriálne kmene). Povrch vzoriek pieskovca a bieleho dreva bol naočkovaný týmito mikroorganizmami pred alebo po aplikácii Or-NC a Th-NC. Výsledky ukázali, že Or-NC a Th-NC majú účinnú dezinfekčnú a antibiofilmovú aktivitu.

7.) Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...? *(Amylolytic enzymes – thousands of sequences, hundreds of structures, dozens of specificities – and what about evolution...?)*

Zodpovedný riešiteľ:	Štefan Janeček
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0146/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10313 €

Dosiahnuté výsledky:
(1)
Na základe detailnej in silico analýzy skupiny enzýmov z alfa-amylázovej rodiny GH13 reprezentovaných cyklomaltodextrinázou z Flavobacterium sp. No. 92 bola navrhnutá nová podrodina, ktorej bolo kurátormi v databáze CAZy oficiálne pridelené číslo GH13_46.

Marecek F. & Janecek S.: A novel subfamily GH13_46 of the alpha-amylase family GH13 represented by the cyclomaltodextrinase from Flavobacterium sp. No. 92. Molecules 2022, 27: 8735. https://doi.org/10.3390/molecules27248735

(2)
V rámci dlhoročnej medzinárodnej spolupráce s prof. Birte Svenssonovou (Danish Technical University, Kgs. Lyngby, Denmark) boli formou článku typu "Opinion" publikované názory o amylolytických enzýmoch v rámci databázy CAZy s ohľadom na ich klasifikáciu do jednotlivých GH rodín glykozidových hydroláz.

Janecek S. & Svensson B.: How many alpha-amylase GH families are there in the CAZy database? Amylase 2022, 6: 1-10. https://doi.org/10.1515/amylase-2022-0001

8.) Úloha N-terminálnej fosforylácie a prirodzenej proteínovej neusporiadanosti v regulácii stability transportérov neurotransmiterov.

Zodpovedný riešiteľ:	František Jurský
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0126/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 3399 €

Dosiahnuté výsledky:
Elektroforetická mobilita proteínov v SDS géli koreluje s ich veľkosťou, čo umožňuje určenie ich molekulovej hmotnosti. Dôvody deviácie niektorých proteínov z tohto pravidla sú vysvetľované napríklad aj ich fosforyláciou proteínov a neusporiadaným charakterom. V práci sme študovali efekt fosfomimetických a neutrálnych mutácií v neštruktúrovanom N-terminálnom konci glycínového transportéra GlyT2 na jeho mobilitu v SDS géli, citlivosť ku proteáze kalpain a nestabilitu Bradfordovej stanovenia. Zatiaľ čo neutrálne mutácie na alanín nemali zásadný vplyv na sledované parametre, fosfomimetické mutácie viedli k radikálnej zmene pohyblivosti proteínu, citlivosti ku kalpainu a značne destabilizovali spektrálny profil Bradfordovej stanovenia. Zmena pohyblivosti mutantov korelovala s nestabilitou Bradfordovej komplexov, čo naznačuje podobnosť v spôsobe väzby SDS a Coomassie Brilliant Blue G-250 na neuporiadané proteíny akým je N-terminálny koniec GlyT2N.

9.) Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces *(Signal cascades of regulation of sigma factors of RNA polymerase in response to stress, cell and physiological differentiation in soil bacteria of the genus Streptomyces)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.1.2020 / 31.12.2023
Evidenčné číslo projektu:	2/0026/20
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV : 14450 €

Dosiahnuté výsledky:
Baktérie sú vo svojom prirodzenom prostredí vystavené rôznym stresovým podmienkam, pričom odozva na tieto stresy je regulovaná najmä sigma faktormi RNA polymerázy, ktoré riadia expresiu génov potrebných na prekonanie týchto nepriaznivých podmienok. V jednobunkovom modeli Gram-pozitívnej baktérie Bacilus subtilis je to stresový sigma faktor SigB, ktorý je regulovaný fosforylačným mechanizmom prostredníctvom anti-sigma faktora RsbW, anti-anti-sigma faktora RsbV, a dvoch PP2C fosfatáz, RsbP a RsbU.
Gram-pozitívne myceliálne pôdne baktérie rodu Streptomyces podliehajú výnimočnému procesu morfologickej diferenciácie sprevádzanej produkciou mnohých antibiotík. Na rozdiel od B. subtilis, modelový organizmus Streptomyces coelicolor obsahuje až 9 homológov stresového sigma faktora SigB, 45 homológov anti-sigma faktora RsbW, 17 homológov anti-anti-sigma faktora RsbV a 44 homológov aktivačných PP2C fosfatáz RsbU/RsbP. Tieto homológy (SigB, SigF, SigG, SigH, SigI, SigK, SigL, SigM, SigN) hrajú dominantnú úlohu najmä v kontrole morfologickej diferenciácie a v odozve na osmotický stres. V predchádzajúcej správe sme charakterizovali fenotyp u mutantov dvoch najdôležitejších sigma faktorov SigB a SigH, ktoré boli pripravené náhradou zodpovedajúceho génu rezistenčným markerovým génom. Kedže v tomto prípade môže dochádzať k polárnemu efektu na vedľajšie gény, tak sme pripravili a optimalizovali nový systém pre bezmarkerové delécie u streptomycét, ktorý umožní deléciu génov bez ich náhrady za rezistenčný markerový gén. Pomocou tohto systému sme pripravili mutantné kmene S. coelicolor s bezmarkerovými deléciami celého operónu rsbB, rsbA, sigB (kódujúci sigma faktor SigB, jeho anti-sigma faktor RsbA a možný anti-anti-sigma faktor RsbB), čiastočného operónu rsbA, sigB, ako aj samostatných génov rsbA a sigB, ktoré sme aj sekvenčne verifikovali v chromozóme jednotlivých bezmarkerových mutantov. Fenotypová analýza mutantov preukázala, že mutant s deletovaným rsbA je značne ovplyvnený v raste a sporulácii pri osmotickom strese. Mutant s deletovaným celým operónom rsbB, rsbA, sigB je čiastočne postihnutý v neskorých štádiách differenciácie. V prípade ďalších mutantov nedochádzalo k postihnutiu diferenciácie ako aj rastu v stresových podmienkach, na rozdiel od výsledkov predchádzajúcich mutantov s nahradeným génom pre rezistenčný marker.

Publikácie

1, Novakova R, Homerova D, Csolleiova D, Rezuchova D, Sevcikova B, Javorova R, Feckova L, Kormanec J: A stable vector for efficient production of heterologous proteins and secondary metabolites in streptomycetes. Appl. Microbiol. Biotechnol. 106 (2022) 7285-7299.

2, Novakova R, Mingyar E, Feckova L, Homerova D, Csolleiova D, Rezuchova B, Sevcikova B, Javorova R, Kormanec J: A new family of transcriptional regulators activating biosynthetic gene clusters for secondary metabolites. Int. J. Mol. Sci. 23 (2022) 2455.

3, Kormanec J: Bacterial regulatory proteins. Int. J. Mol. Sci. 23 (2022) 6854.

10.) Štúdium a charakterizácia Min proteínov z Clostridioides difficile. *(Study and characterization of Clostridioides difficile Min proteins.)*

Zodpovedný riešiteľ:	Naďa Labajová
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0033/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 6955 €

Dosiahnuté výsledky:
V navrhovanom projekte sa zameriavame na štúdium mechanizmov zapojených do priestorovej regulácie bunkového delenia Clostridioides difficile. Konkrétne, študujeme Min systém, ktorý je negatívnym regulátorom polohy deliaceho septa. C. difficile Min systém sa skladá z proteínov MinC, MinD, MinE a DivIVA. MinD a MinE proteíny sú homológmi MinD a MinE z gram-negatívnej baktérie Escherichia coli. E. coli MinD a MinE sú príkladom proteínov, ktoré sú schopné in vitro vytvárať dynamické biologické vzory vo forme vĺn. Tieto vznikajú ich samo-organizáciou a opakovanou asociáciou a disociáciou z membrány. C. difficile Min systém však zahŕňa aj homológ DivIVA, ktorý býva prítomný iba v gram-pozitívnych baktériách. DivIVA je stabilnejšie ukotvený na membráne a interaguje s MinD, preto sa dynamika celého Min systému C. difficile môže výrazne líšiť od dynamiky Min systému pozorovanej u E. coli. Chceli by sme preto preskúmať a charakterizovať nielen dynamiku a aktivitu proteínov C. difficile MinD a MinE, ale aj MinD/MinE v prítomnosti DivIVA.
Osobitnú pozornosť sme v prvom roku riešenia projektu venovali interakcii DivIVA s membránou a jej možnej úlohe v bunkovom delení. Zamerali sme sa na vizualizáciu a charakterizáciu na membránu naviazaných oligomérnych štruktúr DivIVA pomocou AFM , TEM a Cryo-EM a to v spolupráci s laboratóriami Nanobiotechnológií a Kryo-elektrónovej mikroskopie a tomografie CEITEC, Brno, ČR.

11.) Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie *(Lactoferrin and lactoferricin as natural plasmin inhibitors: From the structure resolution to therapeutic applications)*

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0152/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 8378 €

Dosiahnuté výsledky:
Podarilo sa nám opublikovať článok v časopise Frontiers in Immunology (doi: 10.3389/fimmu.2022.958581) týkajúci sa blokády infekcie SARS-CoV-S. Okrem toho sme významne pokročili v štúdiu CD222 ako potenciálneho markeru pri pľúcnej fibróze, čo je jedna z najvážnejších komplikácií pri tzv. dlhom covide.

12.) Vývoj nových metodických prístupov na hodnotenie kvality medu *(The development of new methods for assessing honey quality)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	2/0022/22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 10016 €

Dosiahnuté výsledky:
Publikácie:
PELKA, Karolina - BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - SZWEDA, Piotr - MAJTÁN, Juraj. Glucose oxidase as an important yet overlooked factor determining the antibacterial activity of bee pollen and bee bread. In European Food Research and Technology, 2022, vol. 248, pp. 2929-2939. (2021: 3.498 - IF, Q2 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1438-2377.

TSAVEA, Eleni - VARDAKA, Fotini-Paraskevi - SAVVIDAKI, Elisavet - KELLIL, Abdessamie - KANELIS, Dimitrios - BUČEKOVÁ, Marcela - GRIGORAKIS, Spyros - GODOČÍKOVÁ, Jana - GOTSIOU, Panagiota - DIMOU, Maria - LOUPASSAKI, Sophia - REMOUNDOU, Ilektra - TSADILA, Christina - DIMITRIOU, Tilemachos G. - MAJTÁN, Juraj - TANANAKI, Chrysoula - ALISSANDRAKIS, Eleftherios** - MOSSIALOS, Dimitris. Physicochemical Characterization and Biological Properties of Pine Honey Produced across Greece. In Foods, 2022, vol. 11, no. 7, art. no. 943. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR). ISSN 2304-8158.

13.) Bio-čistenie farebných škvŕn na historických dokumentoch: mikrobiálne, enzymatické a chemické prístupy *(Bio-cleaning of colored stains on historical documents: microbial, enzymatic, and chemical approaches)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2021 / 31.12.2024
Evidenčné číslo projektu:	2/0099/21
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 9246 €

Dosiahnuté výsledky:
Použitím dlhého amplikónového sekvenovania cez platformu MinION bolo možné identifikovať mikrobiotu prítomnú v rôznych objektoch kultúrneho dedičstva. Takýto prístup sa použil na rozpoznanie mikrobiálnych druhov zodpovedných za farbenie papiera. Okrem toho bola analýza dlhých amplikónov zameraná aj na funkčné gény ako nirK (denitrifikačné baktérie), dsr (baktérie redukujúce sírany) a soxB (baktérie oxidujúce sulfáty).

Pavlović, J., Bosch-Roig, P., Rusková, M., Planý, M., Pangallo, D. and Sanmartín, P., 2022. Long-amplicon MinION-based sequencing study in a salt-contaminated twelfth century granite-built

chapel. Applied Microbiology and Biotechnology, 106, pp.4297–4314.

Pavlović, J., Sclocchi, M.C., Planý, M., Ruggiero, D., Puškárová, A., Bučková, M., Šoltys, K., Colaizzi, P., Riccardi, M.L., Pangallo, D. and Pinzari, F., 2022. The microbiome of candle beeswax drops on ancient manuscripts. International Biodeterioration & Biodegradation, 174, p.105482.

Pavlović, J., Farkas, Z., Kraková, L. and Pangallo, D., 2022. Color Stains on Paper: Fungal Pigments, Synthetic Dyes and Their Hypothetical Removal by Enzymatic Approaches. Applied Sciences, 12(19), p.9991.

14.) Dešifrovanie ancestrálnych sekvencií hémových kataláz pre rekonštrukciu ich evolúcie najmä v patogénoch a výber jedinečných kandidátov pre syntetickú biológiu. *(Deciphering ancestral sequences of heme catalases for inferring their evolution mainly in emerging pathogens and selecting unique candidates for synthetic biology.)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	VEGA-2-0012-22
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA SAV: 11234 €

Dosiahnuté výsledky:
Na začiatku riešenia tohoto projektu sme realizovali zabezpečenie nadprodukcie rekombinantnej termostabilnej hémovej katalázy z Chaetomia thermophilum (s označením CtheKat2) v metylotrofnej kvasinke Pichia pastoris. Cieľom je umožniť sekréciu danej rekombinantnej oxidoreduktázy so zaujímvými vlastnosťami. Rozbehla sa aj analýza proteínových sekvencií rôznych hubových kataláz a peroxidáz na posúdenie ich fylogenetických vzťahov. Výsledky proteomických a genomických analýz sme publikovali v článku: Deep insights into specific evolution of fungal Hybrid B heme peroxidase,s ktorý vyšiel v Biology-Basel (2022) vol.11 (3) 459, ako aj v článku Evolution of heme peroxygenases: ancient roots and later evolved branches ktorý vyšiel v Antioxidants-Basel (2022) vol.11(5) 1011. Aspekty rôznej intracelulárnej lokalizácie askorbátových peroxidáz v eukaryotických bunkách boli prezentované v publikácii Chloroplastic ascorbate peroxidases targeted to stroma or thylakoid membrane: the chicken or egg dilemma ktorá vyšla vo FEBS Letters (2022) vol.596 (23) 2989-3004.

Programy: APVV

15.) Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine *(Tree and country - influence of trees on diversity of soil microorganisms in agricultural land)*

Zodpovedný riešiteľ:	Slavomír Adamčík
Zodpovedný riešiteľ v organizácii SAV:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0257
Organizácia je koordinátorom projektu:	nie

Koordinátor:	Botanický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 4468 €

Dosiahnuté výsledky:
Zamerali sme sa na optimalizáciu skríningu merania peroxidázovej aktivity pomocou peroxidu vodíka a rôznych elektrónových donorov na spektrofotometri Cary-60 UV Vis so špeciálnym dôrazom hlavne na mangánovú peroxidázovú aktivitu meranú ako tvorbu komplexu s vínanom. Výsledky kinetických meraní askorbátových peroxidáz a kataláz sme publikovali v článku spolu s brazílskymi kolegami: The role of H2O2-scavenging enzymes (ascorbate peroxidase and catalase) in the tolerance of Lemna minor to antibiotics: implications for phytoremediation, ktorý vyšiel v Antioxidants-Basel (2022) 11: 151.

16.) Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry *(Asymmetric cell division during bacterial endospore formation)*

Zodpovedný riešiteľ:	Imrich Barák
Trvanie projektu:	1.7.2019 / 30.6.2023
Evidenčné číslo projektu:	APVV-18-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 42715 €

Dosiahnuté výsledky:
Tento projekt je založený na našej predchádzajúcej práci, ktorá ukázala dôležitosť SpoIIE a negatívnych regulátorov bunkového delenia pre tvorbu sporulačného septa na správnom mieste. V súčasnosti sme už hľadali interakčných partnerov SpoIIE medzi proteínmi, ktoré by sa mohli podieľať na správnom umiestnení sporulačného septa. Pomocou bakteriálneho dvojhybridného systému sme zistili, že SpoIIE môže interagovať s negatívnym regulátorom bunkového delenia. Aby sme preskúmali možný vzťah medzi interagujúcimi proteínmi, skúmali sme ich lokalizáciu počas skorých štádií sporulácie. Pozorovali sme, že RefZ-GFP sa lokalizuje do polárneho septa v štádiách I a II, kde RefZ tvorí ohniská prednostne na strane materskej bunky septa, kde SpoIIE tvorí E-krúžok. Tiež sme potvrdili možnú interakciu RefZ s cytosolickou časťou rozpustného SpoIIE pomocou western blotu, v ktorom bol SpoIIE stiahnutý pomocou RefZ.

Publikácie:
1. Holmes S., ….I. Barak et al. C. Darmanin (2022) Megahertz pulse trains enable multi-hit serial crystallography experiments at X-ray Free Electron Lasers. Nature Communications 13:4708. doi: 10.1038/s41467-022-32434-6 (IF 14.92) (Q1 JCR2021; Q1 SJR2021)

2. Chromikova Z., R. Kaliankova-Chovanova, D. Tamindžija, B. Bartova, D. Radnovic, R. Bernier-Latmani, I. Barak (2022) Implantation of Bacillus pseudomycoides chromate transporter increases chromate tolerance in Bacillus subtilis. Frontiers Microbiol. 13: Art. 842623. doi: 10.3389/fmicb.2022.842623 (IF 5.64)

17.) Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním *(Colored stains on historical papers: biological and chemical characterization coupled with removal solutions)*

Zodpovedný riešiteľ:	Mária Bučková
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0059
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	APVV: 25000 €

Dosiahnuté výsledky:
Skúmali sa dve rôzne techniky odstraňovania pečiatok z ručne vyrobených a strojovo vyrobených vzoriek papiera. Metódy zahŕňali priamu a hydrogélovú aplikáciu extracelulárnej enzýmovej zmesi (EEM) izolovanej z lipolytických kvasiniek Sporidiobolus metaroseus a rekombinantného enzýmu CthediskatG izolovaného z Chaetomium thermophilum var. dissitum. Výsledky ukázali, že kombinácia priamej aplikácie EEM a dodatočnej úpravy dimetylformamidom predstavuje jednu z efektívnych metód odstraňovania pečiatok z papierových dokumentov.

Pavlović, J., Bosch-Roig, P., Rusková, M., Planý, M., Pangallo, D. and Sanmartín, P., 2022. Long-amplicon MinION-based sequencing study in a salt-contaminated twelfth century granite-built chapel. Applied Microbiology and Biotechnology, 106, pp.4297–4314.

Pavlović, J., Sclocchi, M.C., Planý, M., Ruggiero, D., Puškárová, A., Bučková, M., Šoltys, K., Colaizzi, P., Riccardi, M.L., Pangallo, D. and Pinzari, F., 2022. The microbiome of candle beeswax drops on ancient manuscripts. International Biodeterioration & Biodegradation, 174, p.105482.

Pavlović, J., Farkas, Z., Kraková, L. and Pangallo, D., 2022. Color Stains on Paper: Fungal Pigments, Synthetic Dyes and Their Hypothetical Removal by Enzymatic Approaches. Applied Sciences, 12(19), p.9991.

18.) Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov *(Harnessing the immunological mechanisms in various subtypes of B cell lymphoma)*

Zodpovedný riešiteľ:	Dana Cholujová
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0212
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7431 €

Dosiahnuté výsledky:
Pomocou analyzačných balíkov FlowSOM, Phenograph a Citrus sme analyzovali dáta hmotnostnej

cytometrie (CyTOF) pacientov s rôznymi B-bunkovými lymfómami v rôznych štádiách. Výsledky analýz sme porovnali s minuloročnými výsledkami SPADE analýz rovnakých vzoriek (dát). Podobnosti a odlišnosti vo výsledkoch z rôznych analyzačných nástrojov sme zobrazili v podobe Vennových diagramov. Výsledky pomáhajú zvoliť vhodný postup na analýzu dát hmotnostnej cytometrie. Porovnanie viacerých analyzačných nástrojov pomáha odhaliť dôležité výsledky, ktoré by neboli zachytené pri analýze iba s jedným analyzačným nástrojom. Výsledky práce boli v septembri 2022 prezentované v podobe posteru „Development of a free interactive web portal for cytometry data gating“ na 21st European Conference on Computational Biology (ECCB2022) v španielskom Sitges.

19.) Nádorové imunoeditovanie v mnohopočetnom myelóme: imunitné kontrolné body a klinický význam *(Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance)*

Zodpovedný riešiteľ:	Jana Jakubíková
Zodpovedný riešiteľ v organizácii SAV:	Ľuboš Kľučár
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0183
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Biomedicínske centrum SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 7556 €

Dosiahnuté výsledky:
Dáta hmotnostnej cytometrie (CyTOF) vzoriek pacientov s Mnohopočetným myelómom (MM) sme analyzovali pomocou analyzačných balíkov FlowSOM, Phenograph a Citrus. Výsledky sme dali do súvislosti so špecifickými signálnymi dráhami tiež nazývaným imunitné kontrolné body. Výsledky analýz sme vizualizovali pomocou programovacieho jazyka R a doplnkových knižníc ggplot2 a ComplexHeatmap v rôznej podobe (ako napr. volcano-ploty, box-ploty a heatmapy). Výsledky pomáhajú odhaliť a porozumieť zmeny v nádorových bunkách v súvislosti s imunitnými kontrolnými bodmi a ich klinickým významom. Výsledky práce boli v septembri 2022 prezentované v podobe posteru „Development of a free interactive web portal for cytometry data gating“ na 21st European Conference on Computational Biology (ECCB2022) v španielskom Sitges.

20.) Identification of new treatment options in refractory testicular germ cell tumors *(Identification of new treatment options in refractory testicular germ cell tumors)*

Zodpovedný riešiteľ:	Ľuboš Kľučár
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0158
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3868 €

Dosiahnuté výsledky:
Bola vykonaná detekcia sekvenčných variantov na RNA-seq dátach zo šiestich vzoriek parentálnych bunkových línií a šiestich bunkových línií rezistentných na cisplatinu. Podarilo sa nám identifikovať 5 génov, ktorých expresia je v rezistentných líniách zvýšená a 4 gény ktorých expresia je znížená. V ďalších analýzach budú tieto výsledky rozšírené a potvrdené analýzou dát z ďalších dvadsiatich vzoriek. Výsledky práce boli v septembri 2022 prezentované v podobe posteru „Identification of biomarkers associated with cisplatin resistance in testicular germ cell tumours" na 21st European Conference on Computational Biology (ECCB2022) v španielskom Sitges.

21.) Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie *(Preparation of new antibiotics and antitumor agents by manipulations of secondary metabolite genes and synthetic biology methods)*

Zodpovedný riešiteľ:	Ján Kormanec
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0009
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 37578 €

Dosiahnuté výsledky:
Za účelom aktivácie silentných biosyntetických génových klastrov (BGC) v našom modelovom kmeni S. lavendulae subsp. lavendulae CCM 3239 sme pripravili indukčnú antibiotickú rezistenčnú kazetu so silným promótorom kasOp* a s reverzne orientovaným génom rezistenie na apramycín, silným obojstranným terminatorom T5 a pripravili nový plazmid pKasOpAmRT2 pre integráciu tejto kazety do chromozómu. Bioinformatickou analýzou genómu S. lavendulae subsp. lavendulae CCM 3239 sme identifikovali 27 BGC pre rôzne neznáme sekundárne metabolity. Na základe tejto analýzy sme pre aktiváciu pomocou tejto aktivačnej kazety vybrali 5 vhodných silentných BGC; BGC2 pre neznámu polyketid syntetázu prvého typu (PKSI), BGC11 a BGC15 pre neznáme NRPS, BGC21 pre lantipeptid a BGC26 pre predpokladané pyrolidínové antibiotikum. Pomocou proof=reading PCR sme amplifikovali približne 5-kb úseky pred prvým biosyntetickým génom a vysledné sekvenčne verifikované konštrukty sme homologickou rekombináciou integrovali do divého kmeňa S. lavendulae subsp. lavendulae CCM 3239, ako aj do mutanta S. lavendulae ?aur1 s deletovaným BGC pre auricín. Vo viacerých prípadoch sme dostali integranty so správne integrovanou kazetou, čo sme verifikovali Southern blothybridizáciou a genomickým sekvenovaním. V súčasnosti analyzujeme produkciu sekundárnych metabolitov u takto pripravených rekombinantných kmeňov.
Ako alternatívu TAR klonovania sme pripravili a optimalizovali nový účinný klonovací system pre vkladanie veľkých BGC do stabilného lineárneho plazmidu pSA3239 v S. lavendulae subsp. lavendulae CCM 3239. Účinnosť systému a stabilitu integrácie sme verifikovali pomocou dvoch reportérových génov mCherry a gusA, kde okrem toho, že došlo k stabilnej integrácii homologickou rekombináciou v pSA3239, došlo k štvornásobnému nárastu aktivity oboch reportérov v porovnaní s ich integráciou do chromozómu v jednej kópií pomocou fágového integračného systému, čo je spôsobené zvýšeným počtom kópii pSA3239 (4 kópie na chromozóm). Pripravený systém na báze tohto plazmidu sme verifikovali úspešnou integráciou kompletného 21,9-kb aktinorhodínového BGC. Po integrácii génu jeho aktivátora actII-ORF4 pod kontrolou silného kasOp* promótora došlo k vysokej produkcii antibiotika aktinorhodínu v takto pripravenom kmeni.
Pomocou metódy REDIRECT sme deletovali viaceré potenciálne biosyntetické gény auricínového

klastra v genóme S. lavendulae subsp. lavendulae CCM 3239. Všetky pripravené mutanty sme verifikovali Southern blot hybridizáciou. Pomocou TLC, biochromatografiou a HPLC sme postupne analyzovali produkciu sekundárnych metabolitov u pripravených mutantov. U niektorých mutantov nebola postihnutá biosyntéza auricínu (aur1DE, aur1H, aur1G, aur1N, sa14, sa16, sa21, sa22, sa27, aur2E), takže uvedené gény nie sú esenciálne pre biosyntézu auricínu. U ďalších došlo k výraznému poklesu produkcie auricínu (aur1A, sa15, sa45, aur2F), takže tieto gény sú dôležité pri biosyntéze auricínu, ale daný krok je sprostredkovaný aj ďalším homologickým génom. V prípade delécie génu aur10 kodujúceho neznámy proteín, mutant produkoval dramaticky redukovanú hladinu auricínu. Ale po jeho analyze sme zistili, že tento pokles je spôsobený na transkripčnej úrovni redukciou transkripcie prvého biosyntetického promótora aur1Ap, ktorý riadi centrálny operón auricínového BGC, aur1A-aur1U Tento promótor je závislý na kľúčovom aktivátore Aur1P, ktorý sa na neho viaže, čím ho aktivuje. Dokázali sme, že Aur1O je koaktivátorom tohto aktivátora Aur1P a spolu s ním tvorí komplex. Bioinformatická analýza Aur1O a jeho homológov v iných BGC odhalila, že tieto proteíny reprezentujú novú rodinu transkripčných koaktivátorov potrebných pre reguláciu biosyntézy sekundárnych metabolitov u viacerých BGC. Avšak, tieto sa delia do dvoch sekvenčne-špecifických podtried, z ktorých každá interaguje s pozitívnym regulátorom odlišnej rodiny. U niektorých mutantov nedochádzalo k produkcii auricínu a ani žiadneho iného sekundárneho metabolitu (aur1C, sa49, sa50, aur2AB, aur2C, aur2D, aur2EFGHI, aur2B-I). Tieto gény sú kritické pre počiatočné štádiá biosyntézy auricínu. V prípade mutantov v gene sa48, sa10, sa11, sa12, a sa13 nedochádzalo k produkcii auricínu, ale iného sekundárneho metabolitu, pravdepodobne medziproduktu auricínu.
Charakterizovali sme medziprodukt auricínu SA48A vytvorený po delecii génu sa48, kódujúcom homológ polyketid cyklázy/dehydratázy. Tento bol však nestabilný a podliehal spontannej laktonizácii na stabilný product SA48B. Optimalizovali sme izoláciu SA48B a izolovali čistý produkt, ktorý sme podrobili NMR štruktúrnej analyze. Zistili sme, že sa jedná o aglykón auricínu (so stratou cukonej zložky D-forozamín). Na základe štruktúrnej analýzy predpokladáme, že enzým kódovaný génom sa48 kóduje cyklázu, potrednú pre laktonizáciu (a uzavretie) kruhu D. V jeho neprítomnosti sa vytvára labilný produkt SA48A, ktorý sa však po exporte z bunky postupne spontánne laktonizuje na SA48B, čomu zodpovedá aj strata dvoch atómových jednotiek. Charakterizovali sme biologické vlastnosti SA48B v porovnaní s auricínom. SA48B bol štvornásobne aktívnejší voči Gram-pozitívnym baktériám ako auricín. Rovnako bol medziprodukt SA48B oveľa cytostaticky aktívnejší proti viacerým nádorovým bunkovým líniam (Human ovarian carcinoma cell lines A2780, cisplatin resistant cells A2780/CP a breast cancer cell lines MDA-MB-231 and MCF-7) ako auricín.
Pripravili a optimalizovali sme nový systém syntetickej biológie založený na monocistronických jednotkách (kasOp*-RBS-gén-terminátor), umožňujúci ich postupné pripájanie do dlhých monocistronických syntetických génových klastrov. Tento sme verifikovali postupným klonovaním a pripájaním biosyntetických génov pre aromatické polyketidové antibiotikum landomycín (lanA, lanB, lanC, lanF, lanD, lanL, lane, lanM, lanN), kde po integrácii výsledných konštruktov do chromozómu heterologického hostiteľského kmeňa S. coelicolor M1146 dochádzalo k produkcii jednotlivých medziproduktov landomycínového aglykónu, a to rabelomycínu, dehydrorabelomycínu a tetrangulolu. Týmto sme overili a optimalizovali tento nový systém syntetickej biológie založený na monocistronických transkripčných jednotkách, čo umožňuje jeho použitie pri biosyntéze nových a modifikovaných sekundárnych metabolitov s potenciálne novými biologickými vlastnosťami.

Publikácie

1, Novakova R, Mingyar E, Feckova L, Homerova D, Csolleiova D, Rezuchova B, Sevcikova B, Javorova R, Kormanec J: A new family of transcriptional regulators activating biosynthetic gene clusters for secondary metabolites. Int. J. Mol. Sci. 23 (2022) 2455.

2, Kormanec J: Bacterial regulatory proteins. Int. J. Mol. Sci. 23 (2022) 6854.

3, Novakova R, Homerova D, Csolleiova D, Rezuchova D, Sevcikova B, Javorova R, Feckova L, Kormanec J: A stable vector for efficient production of heterologous proteins and secondary metabolites in streptomycetes. Appl. Microbiol. Biotechnol. 106 (2022) 7285-7299.

Účasť na zahraničných konferenciách

1, Javorova R, Novakova R, Knirschova R, Opaterny F, Kormanec J: Activation of the silent secondary metabolite gene clusters in Streptomyces lavendluae subsp. lavendulae CCM 3239. Book of Abstract: 5th International Caparica Conference in Antibiotic Resistance 2022, Caparica, Portugal, 5.9 – 8. 9 2022, p. 201. ISBN 978-989-53350-5-3.

22.) Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. *(Interaction between proteases, chaperones and kinases in stress condition cause by pathological conditions.)*

Zodpovedný riešiteľ:	Eva Kutejová
Trvanie projektu:	1.7.2020 / 30.6.2024
Evidenčné číslo projektu:	APVV-19-0298
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 40000 €

Dosiahnuté výsledky:
Izolovali a purifikovali sme proteíny mtHsp70 (mortalín) a jeho ko-šaperóny TiD-1S , Hep1 a GRPE1, a proteín systému HSP90, TRAP1. V prípade mtHsp70 sa nám optimalizáciou pufrovacieho systému pomocou NanoDSF podarilo výrazne zvýšiť stabilitu proteínu.
V rámci finalizácie časti projektu venovanej post-translačným modifikáciám ľudskej Lon proteázy sme pomocou Western blotu a chemického cross-linku ukázali, že fosforylované formy Lon sú schopné viazať proteínový substrát rovnako ako štandardná Lon proteáza.
Časť projektu zameraná na ľudský mitochondriálny nukleoid-viažuci proteín TFAM pokračovala prípravou skrátených foriem proteínu navrhnutých tak, aby obsahovali samostatné HMG boxy (časti proteínu, ktorými sa TFAM viaže na DNA substrát). Skrátené formy TFAM sme nadexprimovali v E. coli, izolovali, purifikovali a podrobili funkčným analýzam
Z väčšej časti boli dokončené aj práce na charakterizácii úlohy LON proteázy pri stabilite a funkcii dýchacieho reťazca v kvasinke S. cerevisiae. V spolupráci so skupinou Prof. Jozefa Noseka z Katedry biochémie PriF UK sme osekvenovali vzorky mtDNA zo štandardného kmeňa a z kmeňa s deléciou LON proteázy a analyzovali sme dané sekvencie.
Publikácie
Kunova, N., Havalova, H., Ondrovicova, G., Stojkovicova, B., Bauer, J., Bauerova-Hlinkova, V., Pevala, V., Kutejova, E.
Mitochondrial processing peptidases - structure, function and the role in human diseases.
(2022) Int J Mol Sci 23(3): 1-24

Vyžiadaná prednáška:
Kutejova, E., Kunová, N., Ondrovičová, G., Stojkovičová, B., Frankovský, J., Kereiche, S., Lukáčová, V., Krajčovičová, V., Havalová, H., Bauer, A.J., Pevala, V., Baráth, P., Tomáška. Ľ.

Lon protease – the essential component of mitochondrial homeostasis.
Chemistry towards Biology (CTB10) – Instruct Conference; 11-14 September, 2022; Bratislava, Slovakia

Vybraná prednáška:
Stojkovičová B., Ondrovičová G., Bellová J., Lukáčová V., Kunová N., Hodorová V., Havalová H., Martináková L., Procházková K., Tomáška Ľ., Horváth A., Baráth P., Brejová B., Nosek J., Kutejová E., Pevala V.
The story of yeast Lon protease in the mitochondrial DNA maintenance and assembly of respiratory chain complexes
Mitochondria: Past and Present Evolution, Proteostasis, Dynamics and Disease, 11.- 17. november 2022, Israel

Poster:
EMBO Workshop: Molecular biology of mitochondrial gene maintenance and expression, Bro, Sweden od 15.-19. mája, 2022 s posterom: The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids, Vladimír Pevala, https://meetings.embo.org/event/22-mitochondria

Yeast Genetics Meeting 2022, 17. - 21. August, 2022, University of California, Los Angeles, USA (poster): The yeast mitochondrial succinylome: Implications for regulation of mitochondrial nucleoids, prof. Tomáška, https://genetics-gsa.org/yeast-2022/#

Cell Symposia: Multifaceted Mitochondria, 6. - 8. November 2022, Seville, Spain (poster): Phosphorylation of human mitochondrial LON protease disrupts its functions, Gabriela Ondrovičová, Nina Kunová a Henrieta Havalová, https://www.cell-symposia.com/mitochondria-2022/
Mitochondria: Past and Present Evolution, Proteostasis, Dynamics and Disease, 13.- 16. november 2022, Israel: Effects of post-translational modifications on mitochondrial nucleoid components Abf2 and Lon protease, Eva Kutejová, http://mito2022.org.il/

23.) Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19
(The double-edged sword of the plasminogen system: From homeostasis maintenance to COVID-19)

Zodpovedný riešiteľ:	Vladimír Leksa
Trvanie projektu:	1.8.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0513
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 33806 €

Dosiahnuté výsledky:
Podarilo sa nám opublikovať článok v časopise Frontiers in Immunology (doi: 10.3389/fimmu.2022.958581), v ktorom ukazujeme inhibičný účinok laktoferínu a jeho odvodeného bioaktívneho peptidu laktofericínu na infekciu SARS-CoV-2 spôsobujúceho ochorenie COVID-19. Objasnili sme aj potenciálny mechanizmus účinku.

24.) Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu *(New insight into biochemical and functional properties of the major antibacterial components of honey)*

Zodpovedný riešiteľ:	Juraj Majtán
Trvanie projektu:	1.7.2022 / 30.6.2026
Evidenčné číslo projektu:	APVV-21-0262
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15328 €

Dosiahnuté výsledky:
Publikácie:
DEGLOVIČ, Juraj - MAJTANOVA, Nora - MAJTÁN, Juraj. Antibacterial and antibiofilm effect of honey in the prevention of dental caries: a recent perspective. In Foods, 2022, vol. 11, art. no. 2670. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR). ISSN 2304-8158.

25.) Mikrobiálne kontaminanty v tradičných slovenských syroch: ich eliminácia vedeckými nástrojmi založenými na kvantitatívnej analýze a matematickom modelovaní *(Microbial contaminants in traditional Slovakian cheeses: their elimination by scientific tools based on quantitative analysis and mathematical modelling)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2020 / 30.6.2023
Evidenčné číslo projektu:	APVV-19-0031
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Slovenská technická univerzita v Bratislave Fakulta chemickej a potravinárskej technológie
Počet spoluriešiteľských inštitúcií:	1 - Slovensko: 1
Čerpané financie:	APVV: 25000 €

Dosiahnuté výsledky:
S cieľom pokryť čo najširší rozsah vybraných environmentálnych podmienok a stanoviť kardinálne teploty boli sledované rastové charakteristiky: T (°C), Grkol (cm.h-1), ? (h), av, pH a dynamika rastu izolátu Mucor circinelloides L1 na povrchu SMA agaru pri 6, 8, 12, 15, 18, 21, 33, 37 °C v závislosti od koncentrácie NaCl (0, 1, 2%).

26.) Štartovacie a prídavné kultúry na výrobu slovenskej bryndze s tradičnými organoleptickými vlastnosťami. *(Microbial starters and adjunct cultures for production of Slovakian bryndza cheese with traditional organoleptic properties)*

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.7.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0001
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Národné poľnohospodárske a potravinárske centrum; Výskumný

	ústav potravinársky
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15000 €

Dosiahnuté výsledky:
Vzorky zo vzduchu, povrchov a srvátky sme odobrali v 4 rôznych mliekárňach na Slovensku (Tisovec, Turček, Zázrivá a Pružina). Vzorky sa použili na skúmanie mikrobioty prístupmi závislými od kultúry (tradičné mikrobiologické metódy) a nezávislými od kultúry (vysokovýkonné sekvenovanie, platforma MinION). V súčasnosti prebieha bioinformatická analýza.

Planý, M., Sitarčík, J., Pavlović, J., Budiš, J., Koreňová, J., Kuchta, T. and Pangallo, D., 2023. Evaluation of bacterial consortia associated with dairy fermentation by ribosomal RNA (rrn) operon metabarcoding strategy using MinION device. Food Bioscience, 51, p.102308.

27.) Interakcia proteínu Mmi1/TCTP s mitochondriami *(Interaction of Mmi1/TCTP protein with mitochondria)*

Zodpovedný riešiteľ:	Vladimír Pevala
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	SK-CZ-RD-21-0104
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 20000 €

Dosiahnuté výsledky:
Počas prvého polroku riešenia projektu sme pripravili expresné konštrukty na expresiu Mmi1 proteínu v E. coli a to wt verzie a štyroch fosforylovaných verzií proteínu pomocou ortogonálneho translačného systému pre inkorporáciu fosfo-serínu. Pripravili sme postup na izoláciu Mmi1 proteínu, optimalizovali roztok pre proteín pomocou nanoDSF a kryštalizovali wt verziu proteínu. Exprimovali a izolovali sme fosforylované verzie Mmi1 proteínu pre in-vitro charakterizáciu a väzbu na mitochondrie.

28.) Črevná mikrobiota a diabetická periferálna neuropatia: účinok cemtirestatu v potkaňom modely diabetu. *(Gut microbiota and diabetic peripheral neuropathy: effect of cemtirestat in rat models of diabetes.)*

Zodpovedný riešiteľ:	Milan Štefek
Zodpovedný riešiteľ v organizácii SAV:	Domenico Pangallo
Trvanie projektu:	1.8.2021 / 30.6.2024
Evidenčné číslo projektu:	APVV-20-0411
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Centrum experimentálnej medicíny SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 31910 €

Dosiahnuté výsledky:
Črevná mikroflóra 16 potkanov bola skúmaná s cieľom pochopiť vplyv lieku Cemtirestat na cukrovku. Vysokovýkonné sekvenčné prístupy (založené na platforme MinION) boli aplikované na analýzu mikrobioty na dvoch skupinách potkanov: 8 potkanov bolo liečených Cemtirestatom, ďalších 8 nedostalo žiadnu medikamentóznu liečbu.

29.) Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách *(Fungal Hybrid Heme Peroxidases from Primeval Forest with Application in Environmental Biotechnologies)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0284
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15598 €

Dosiahnuté výsledky:
Uskutočnili sme analýzu pôdnych vzoriek bučín z pohoria Javorie pri Zvolene ako aj z Badínskeho pralesa pri Banskej Bystrici na prítomnosť vláknitých húb, najmä ektomikoryznych obsahujúcich rôzne gény pre hémové peroxidázy ktoré by mohli po heterológnej expresii nájsť využitie v zelených biotechnológiách. Perspektívnymi sa ukazujú najmä bazídiomycétne huby z bučín Badinského pralesa. Výsledky kinetických meraní sme publikovali v článku spolu s brazílskymi kolegami: The role of H2O2-scavenging enzymes (ascorbate peroxidase and catalase) in the tolerance of Lemna minor to antibiotics: implications for phytoremediation ktorý vyšiel v Antioxidants-Basel (2022) 11: 151. Výsledky proteomických a genomických analýz vzoriek húb z pôdy sme publikovali v článku: Deep insights into specific evolution of fungal Hybrid B heme peroxidases ktorý vyšiel v Biology-Basel (2022) vol.11 (3) 459 ako aj v článku Evolution of heme peroxygenases: ancient roots and later evolved branches ktorý vyšiel v Antioxidants-Basel (2022) vol.11(5) 1011. Aspekty rôznej intracelulárnej lokalizácie askorbátových peroxidáz v eukaryotických bunkách boli prezentované v publikácii Chloroplastic ascorbate peroxidases targeted to stroma or thylakoid membrane: the chicken or egg dilemma ktorá vyšla vo FEBS Letters (2022) vol. 596 (23) 2989-3004.

30.) Výskum a vývoj efektívnych procesov prípravy vanilínu a iných prírodných aróm s využitím oxidačného a protektívneho účinku rekombinantnej katalázy a peroxidázy *(Research & development of effective processes for the preparation of vanillin and other natural flavors using the oxidative and protective effect of recomtinant catalase and peroxidase)*

Zodpovedný riešiteľ:	Marcel Zámocký
Trvanie projektu:	1.8.2018 / 30.6.2022
Evidenčné číslo projektu:	APVV-17-0333
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského Bratislava
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 3106 €

Dosiahnuté výsledky:
V záverečnom roku riešenia tohoto projektu sme optimalizovali nasadenie termostabilnej katalázy-peroxidázy ako aj mangán závislej DyP peroxidázy pri procese konverzie izoeugenolu na vanilín. Výsledky našich analýz boli prezentované na biotechnologickej konferencii Green for Good VI v Olomouci formou prednášky.

Programy: Štrukturálne fondy EÚ Výskum a vývoj

31.) Dlhodobý strategický výskum a vývoj zameraný na výskyt Lynchovho syndrómu v populácii SR a možnosti prevencie nádorov spojených s týmto syndrómom

Zodpovedný riešiteľ:	Domenico Pangallo
Trvanie projektu:	1.1.2020 / 30.6.2023
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Komenského v Bratislave, Univerzitný Vedecký park
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	SF: 98724 €

Dosiahnuté výsledky:
Na uskladnenie sme spracovali okolo 650 vzoriek stolice zdravých ľudí, ľudí s Lynchovým syndrómom a pacientov postihnutých kolorektálnym karcinómom. Mikrobióm niektorých vzoriek bol analyzovaný pomocou sekvenovania dlhých úsekov DNA obsahujúcich ribozomálne operónové sekvencie (rrn). Táto metodika zahŕňa amplifikaciu úsekov dlhých približne 4000 bázových párov obsahujúcich gény kódujúce 3 hlavné časti - malú ribozomalnu podjednotku, medzernikovú oblasť a veľkú ribozomálnu podjednotku (16S-ITS-28S), a následné sekvenovanie pomocou zariadenia MinION.

Planý, M., Sitarčík, J., Pavlović, J., Budiš, J., Koreňová, J., Kuchta, T. and Pangallo, D., 2023. Evaluation of bacterial consortia associated with dairy fermentation by ribosomal RNA (rrn) operon metabarcoding strategy using MinION device. Food Bioscience, 51, p.102308.

Programy: DoktoGranty

32.) Lytický potenciál multifunkčného chvostíkového proteínu gp15 bakteriofága BFK20 *(The lytic potential of the bacteriophage BFK20 multifunctional tail protein gp15)*

Zodpovedný riešiteľ:	Kristína Pápayová
Trvanie projektu:	1.1.2022 / 31.12.2022
Evidenčné číslo projektu:	APP0324
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	DoktoGrant SAV: 1900 €

Dosiahnuté výsledky:
V rámci riešenia projektu Doktogrant bolo pripravených celkovo 8 plazmidových konštruktov, vo vektore pET28a+, obsahujúcich SLT doménu pôvodom z bakteriofága BFK20. Expresiou SLT

proteínov z týchto konštruktov sme sledovali zmeny spôsobené rozdielnou dĺžkou oblastí priľahlých k doméne SLT. Expresné profily SLT proteínov boli značne variabilné, najmä z hľadiska množstva získaného proteínu a jeho čistoty. Pomocou western blot analýzy sme potvrdili prítomnosť kratších fragmentov, ktoré vznikajú počas proteolytického štiepienia SLT proteínov. Lytický potenciál SLT proteínov bol potvrdený pomocou fluorescenčne značeného substrátu (Lysozyme Activity Assay kit – Abcam). Príprava hybridného proteínu endolyzínu gp24 bakteriofága BFK20 vo fúzii s SLT05 proteínom je v stave rozpracovanosti a bude ďalej napredovať v nasledujúcom období.

Príloha C
Publikačná činnosť organizácie (*generovaná z ARL*)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

ABC01 BAUER, Jacob - BAUEROVÁ, Vladena. Extracting the Dynamic Motion of Proteins Using Normal Mode Analysis. In Data Mining Techniques for the Life Sciences. 3. ed. - New York : Springer Nature, 2022, pp. 213-231. ISBN 978-1-0716-2095-3. ISSN 1940-6029. Dostupné na: https://doi.org/10.1007/978-1-0716-2095-3_9 (VEGA č. 2/0131/20 : Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2)

ACB Vysokoškolské učebnice vydané v domácich vydavateľstvách

ACB01 ŠIMONOVIČOVÁ, Alexandra - NOSALJ, Sanja - MISTRÍKOVÁ, Jela - FERIANC, Peter - PIECKOVÁ, Elena - FEKETEOVÁ, Zuzana - HANAJÍK, Peter. Mikrobiológia životného prostredia. 1. vyd. Bratislava : Univerzita Komenského v Bratislave, 2022. 326 s. Dostupné na internete: https://uniba.sk/fileadmin/prif/envi/kpe/Mikrobiologia_zivotneho_prostredia_2022.pdf. ISBN 978-80-223-5375-5 (VEGA č. 1/0194/21 : Ekologické hodnotenie revitalizovaného acidifikovaného územia)

ADCA Vedecké práce v zahraničných karentovaných časopisoch – impaktovaných

ADCA01 BOCÁNOVÁ, Lucia - PSENKO, Michal - BARÁK, Imrich - HALGAŠOVÁ, Nora - DRAHOVSKÁ, Hana - BUKOVSKÁ, Gabriela**. A novel phage-encoded endolysin EN534-C active against clinical strain Streptococcus agalactiae GBS. In Journal of Biotechnology, 2022, vol. 359, p. 48-58. (2021: 3.595 - IF, Q2 - JCR, 0.637 - SJR, Q2 - SJR). ISSN 0168-1656. Dostupné na: https://doi.org/10.1016/j.jbiotec.2022.09.016 (APVV 16-0168)

ADCA02 DEGLOVIČ, Juraj - MAJTANOVA, Nora - MAJTÁN, Juraj**. Antibacterial and antibiofilm effect of honey in the prevention of dental caries: a recent perspective. In Foods, 2022, vol. 11, art. no. 2670. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2304-8158. Dostupné na: https://doi.org/10.3390/foods11172670 (APVV-21-0262 : Nový pohľad na biochemické a funkčné vlastnosti hlavných antibakteriálnych zložiek medu)

ADCA03 HOLMES, Susannah - KIRKWOOD, Henry J. - BEAN, Richard - GIEWEKEMEYER, Klaus - MARTIN, Andrew V. - BARÁK, Imrich - ABBEY, Brian** - DARMANIN, Connie**. Megahertz pulse trains enable multi-hit serial femtosecond crystallography experiments at X-ray free electron lasers. In Nature Communications, 2022, vol. 13, art. no. 4708. (2021: 17.694 - IF, Q1 - JCR, 4.846 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-022-32434-6

ADCA04 JARDIM-MESSEDER, Douglas - ZÁMOCKÝ, Marcel - SACHETTO-MARTINS, Gilberto** - MARGIS-PINHEIRO, Márcia**. Chloroplastic ascorbate peroxidases targeted to stroma or thylakoid membrane: The chicken or egg dilemma. In Febs Letters, 2022, vol. 596, iss. 23, p. 2989-3004. (2021: 3.864 - IF, Q2 - JCR, 1.263 - SJR, Q1 - SJR). ISSN 1873-3468. Dostupné na: https://doi.org/10.1002/1873-3468.14438 (APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. VEGA č. 2/0012/22)

ADCA05 KITYK, Anna** - PROTSENKO, V. - DANILOV, F.I. - BOBROVA, Lina -

HNATKO, Miroslav - PAVLÍK, Viliam - ŠOLTÝS, Ján - LABUDOVÁ, Martina - RUSKOVÁ, Magdaléna - PANGALLO, Domenico. Design of Ti-6Al-4V alloy surface properties by galvanostatic electrochemical treatment in a deep eutectic solvent Ethaline. In Surface & Coatings Technology, 2022, vol. 429, art. no. 127936. (2021: 4.865 - IF, Q2 - JCR, 0.922 - SJR, Q1 - SJR). ISSN 0257-8972. Dostupné na: https://doi.org/10.1016/j.surfcoat.2021.127936 (ITMS2014+: 313021T081 : Vybudovanie Centra pre využitie pokročilých materiálov Slovenskej akadémie vied)

ADCA06 KUNOVÁ, Nina** - HAVALOVÁ, Henrieta* - ONDROVIČOVÁ, Gabriela - STOJKOVIČOVÁ, Barbora - BAUER, Jacob - BAUEROVÁ, Vladena - PEVALA, Vladimír - KUTEJOVÁ, Eva**. Mitochondrial processing peptidases - structure, function and the role in human diseases. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 1297. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms23031297 (APVV-15-0375. APVV-19-0298 : Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. VEGA č. 2/0075/18 : Faktory ovplyvňujúce dynamiku mitochondriálneho nukleoidu)

ADCA07 MAREČEK, Filip - JANEČEK, Štefan**. A Novel Subfamily GH13_46 of the alpha-Amylase Family GH13 Represented by the Cyclomaltodextrinase from Flavobacterium sp. No. 92. In Molecules. - Basel : MDPI AG, 2022, vol. 27, iss. 24, art. no 8735. (2021: 4.927 - IF, Q2 - JCR, 0.705 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents, WOS, SCOPUS). ISSN 1420-3049. Dostupné na: https://doi.org/10.3390/molecules27248735 (VEGA č. 2/0146/21 : Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...?)

ADCA08 NOVÁKOVÁ, Renáta - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - JAVOROVÁ, Rachel - FECKOVÁ, Ľubomíra - KORMANEC, Ján**. A stable vector for efficient production of heterologous proteins and secondary metabolites in streptomycetes. In Applied Microbiology and Biotechnology, 2022, vol. 106, pp. 7285-7299. (2021: 5.560 - IF, Q1 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-022-12187-4 (APVV-19–0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie. VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

ADCA09 NOVÁKOVÁ, Renáta - MINGYAR, Erik - FECKOVÁ, Ľubomíra - HOMEROVÁ, Dagmar - CSÖLLEIOVÁ, Dominika - REŽUCHOVÁ, Bronislava - ŠEVČÍKOVÁ, Beatrica - JAVOROVÁ, Rachel - KORMANEC, Ján**. A new family of transcriptional regulators activating biosynthetic gene clusters for secondary metabolites. In International Journal of Molecular Sciences, 2022, vol. 23, art. no. 2455. (2021: 6.208 - IF, Q1 - JCR, 1.176 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1422-0067. Dostupné na: https://doi.org/10.3390/ijms23052455 (APVV–0203–11 : Molekulárne mechanizmy biosyntézy, regulácie a horizontálneho prenosu génov. APVV-19-0009 : Príprava nových antibiotík a protinádorových látok manipuláciami génov sekundárnych metabolitov a metódami syntetickej biológie. VEGA č. 2/0026/20 : Signálne kaskády regulácie sigma faktorov RNA polymerázy pri odozve na stres, bunkovej a fyziologickej diferenciácii u pôdnych baktérií rodu Streptomyces)

ADCA10 OPÁLKOVÁ ŠIŠKOVÁ, Alena** - MOSNÁČKOVÁ, Katarína - MUSIOL, Marta - OPÁLEK, Andrej - BUČKOVÁ, Mária - RYCHTER, Piotr - ECKSTEIN ANDICSOVÁ, Anita. Electrospun Nisin-Loaded Poly(epsilon-caprolactone)-Based Active Food Packaging. In Materials, 2022, vol. 15, no. 4540. (2021: 3.748 - IF, Q1

- JCR, 0.604 - SJR, Q2 - SJR). ISSN 1996-1944. Dostupné na: https://doi.org/10.3390/ma15134540

ADCA11 PAVLOVIĆ, Jelena - SCLOCCHI, M.C. - PLANÝ, Matej - RUGGIERO, Daniele - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ŠOLTYS, Katarína - COLAIZZI, P. - RICCARDI, Maria Luisa - PANGALLO, Domenico - PINZARI, Flavia. The microbiome of candle beeswax drops on ancient manuscripts. In International Biodeterioration & Biodegradation, 2022, vol. 174, art. no. 105482. (2021: 4.907 - IF, Q2 - JCR, 0.904 - SJR, Q1 - SJR). ISSN 0964-8305. Dostupné na: https://doi.org/10.1016/j.ibiod.2022.105482 (APVV-19-0059 : Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním. VEGA č. 2/099/2021)

ADCA12 PAVLOVIĆ, Jelena* - BOSCH-ROIG, Pilar* - RUSKOVÁ, Magdaléna - PLANÝ, Matej - PANGALLO, Domenico - SANMARTÍN, Patricia. Long-amplicon MinION-based sequencing study in a salt-contaminated twelfth century granite-built chapel. In Applied Microbiology and Biotechnology, 2022, vol. 106, pp. 4297-4314. (2021: 5.560 - IF, Q1 - JCR, 0.987 - SJR, Q1 - SJR). ISSN 0175-7598. Dostupné na: https://doi.org/10.1007/s00253-022-11961-8 (APVV-19-0059 : Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním. VEGA č. 2/099/2021)

ADCA13 PAVLOVIĆ, Jelena - FARKAS, Zuzana - KRAKOVÁ, Lucia - PANGALLO, Domenico**. Color Stains on Paper: Fungal Pigments, Synthetic Dyes and Their Hypothetical Removal by Enzymatic Approaches. In Applied Sciences-Basel, 2022, vol. 12, art. no. 9991. (2021: 2.838 - IF, Q2 - JCR, 0.507 - SJR, Q2 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2076-3417. Dostupné na: https://doi.org/10.3390/app12199991 (VEGA č. 2/099/2021. APVV-19-0059 : Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním)

ADCA14 PELKA, Karolina - BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - SZWEDA, Piotr - MAJTÁN, Juraj**. Glucose oxidase as an important yet overlooked factor determining the antibacterial activity of bee pollen and bee bread. In European Food Research and Technology, 2022, vol. 248, pp. 2929-2939. (2021: 3.498 - IF, Q2 - JCR, 0.592 - SJR, Q2 - SJR). ISSN 1438-2377. Dostupné na: https://doi.org/10.1007/s00217-022-04101-z (VEGA č. 2/0022/22)

ADCA15 RENNEROVA, Zuzana - SIRVENT, Leandro Picó - ROCA, Eva Carvajal - PAŚNIK, Jarosław - LOGAR, Mateja - MILOŠEVIĆ, Katarina - MAJTÁN, Juraj** - JESENAK, Milos**. Beta-(1,3/1,6)-D-glucan from Pleurotus ostreatus in the prevention of recurrent respiratory tract infections: An international, multicentre, open-label, prospective study. In Frontiers in Pediatrics, 2022, vol. 10, art. no. 999701. (2021: 3.569 - IF, Q2 - JCR, 0.850 - SJR, Q1 - SJR). ISSN 2296-2360. Dostupné na: https://doi.org/10.3389/fped.2022.999701

ADCA16 ROLLER, Ladislav** - DAUBNEROVÁ, Ivana - MIZOGUCHI, Akira - SATAKE, Honoo - TANAKA, Yoshiaki - STANO, Matej - KĽUČÁR, Ľuboš - ŽITŇAN, Dušan. Expression analysis of peptidergic enteroendocrine cells in the silkworm Bombyx mori. In Cell and Tissue Research, 2022, vol. 389, no. 3, p. 385–407. (2021: 4.051 - IF, Q3 - JCR, 1.298 - SJR, Q1 - SJR). ISSN 0302-766X. Dostupné na: https://doi.org/10.1007/s00441-022-03666-1 (VEGA 2/0080/18 : Expresia a funkčná charakterizácia receptorov pre neuropeptidy hmyzu a kliešťov)

ADCA17 RUSKOVÁ, Magdaléna - BUČKOVÁ, Mária - ACHS, Adam - PUŠKÁROVÁ, Andrea - WU, J.H. - KUCHTA, T. - ŠUBR, Zdeno W. - PANGALLO, Domenico**. Useful molecular tools for facing next pandemic events: Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in wastewater environment. In International Journal of Hygiene and Environmental

Health, 2022, vol. 245, art. no. 114017. (2021: 7.401 - IF, Q1 - JCR, 1.474 - SJR, Q1 - SJR). ISSN 1438-4639. Dostupné na: https://doi.org/10.1016/j.ijheh.2022.114017 (VEGA 2/0003/22 : Rastlinné systémy pre tranzientnú expresiu látok peptidovej povahy za účelom prípravy vakcín proti vírusovým ochoreniam)

ADCA18 TAMÁŠ, Michal** - POTOČÁROVÁ, Alena - KONEČNÁ, Barbora - KĽUČÁR, Ľuboš - MACKUĽAK, Tomáš. Wastewater Sequencing—An Innovative Method for Variant Monitoring of SARS-CoV-2 in Populations. In International Journal of Environmental Research and Public Health, 2022, vol. 19, art. no. 9749. (2021: 4.614 - IF, Q1 - JCR, 0.814 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 1660-4601. Dostupné na: https://doi.org/10.3390/ijerph19159749 (APVV-19-0250 : Výskyt mikroplastov a vybraných mikropolutantov v povrchových a pitných vodách Slovenska a ich účinné odstránenie pomocou progresívnych postupov. APVV-21-0076 : Kanabinoidy a rekombinantné kvasinky - perspektívy produkcie bioaktívnych molekúl. Vega č. 1/0343/19 : Elektrochemická príprava železanov pre degradáciu mikropolutantov v odpadových vodách)

ADCA19 TSAVEA, Eleni - VARDAKA, Fotini-Paraskevi - SAVVIDAKI, Elisavet - KELLIL, Abdessamie - KANELIS, Dimitrios - BUČEKOVÁ, Marcela - GRIGORAKIS, Spyros - GODOČÍKOVÁ, Jana - GOTSIOU, Panagiota - DIMOU, Maria - LOUPASSAKI, Sophia - REMOUNDOU, Ilektra - TSADILA, Christina - DIMITRIOU, Tilemachos G. - MAJTÁN, Juraj - TANANAKI, Chrysoula - ALISSANDRAKIS, Eleftherios** - MOSSIALOS, Dimitris. Physicochemical Characterization and Biological Properties of Pine Honey Produced across Greece. In Foods, 2022, vol. 11, no. 7, art. no. 943. (2021: 5.561 - IF, Q1 - JCR, 0.726 - SJR, Q1 - SJR, karentované - CCC). (2022 - Current Contents). ISSN 2304-8158. Dostupné na: https://doi.org/10.3390/foods11070943 (VEGA č. 2/0022/22)

ADCA20 ZÁMOCKÝ, Marcel** - MUSIL, Miloš - DANCHENKO, Maksym - FERIANC, Peter - CHOVANOVÁ, Katarína - BARÁTH, Peter - POLJOVKA, Andrej - BEDNÁŘ, David. Deep Insights into the Specific Evolution of Fungal Hybrid B Heme Peroxidases. In Biology-Basel, 2022, vol. 11, iss. 3, art. no. 459. (2021: 5.168 - IF, Q1 - JCR, 0.903 - SJR, Q1 - SJR). ISSN 2079-7737. Dostupné na: https://doi.org/10.3390/biology11030459 (VEGA č. 2/0012/22. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. APVV-20-0257 : Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine)

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

ADDA01 KAJSIKOVÁ, Mária - KAJSIK, Michal - DRAHOVSKÁ, Hana - BUKOVSKÁ, Gabriela**. Complete genome sequence of the industrial l-lysine production. In Biologia, 2022, vol. 77, no. 5, p. 1423-1428. (2021: 1.653 - IF, Q3 - JCR, 0.339 - SJR, Q3 - SJR). ISSN 0006-3088. Dostupné na: https://doi.org/10.1007/s11756-022-01021-x (VEGA č. 2/0139/18)

ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 JANEČEK, Štefan** - SVENSSON, Birte. How many alpha-amylase GH families are there in the CAZy database? In Amylase, 2022, vol. 6, p. 1-7. ISSN 2450-9728. Dostupné na: https://doi.org/10.1515/amylase-2022-0001

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

ADMA01 BAUER, Jacob - ZÁMOCKÁ, Monika - MAJTÁN, Juraj - BAUEROVÁ, Vladena**. Glucose Oxidase, an Enzyme "Ferrari": Its Structure, Function, Production and Properties in the Light of Various Industrial and Biotechnological Applications. In Biomolecules : Open Access Journal, 2022, vol. 12, art. no. 472. (2021: 6.064 - IF, Q2 - JCR, 1.019 - SJR, Q2 - SJR). ISSN 2218-273X. Dostupné na: https://doi.org/10.3390/biom12030472

ADMA02 CHROMÍKOVÁ, Zuzana** - KALIANKOVÁ-CHOVANOVÁ, Romana - TAMINDŽIJA, Dragana - BÁRTOVÁ, Barbora - RADNOVIĆ, Dragan - BERNIER-LATMANI, Rizlan - BARÁK, Imrich**. Implantation of Bacillus pseudomycoides Chromate Transporter Increases Chromate Tolerance in Bacillus subtilis. In Frontiers in Microbiology, 2022, vol. 13, art. no. 842623. (2021: 6.064 - IF, Q1 - JCR, 1.314 - SJR, Q1 - SJR). ISSN 1664-302X. Dostupné na: https://doi.org/10.3389/fmicb.2022.842623 (APVV-18-0104 : Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry. VEGA č. 2/0001/21 : Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis)

ADMA03 OHRADANOVA-REPIC, Anna** - ŠKRABANA, Rostislav - GEBETSBERGER, Laura - TAJTI, Gabor - BARÁTH, Peter - ONDROVIČOVÁ, Gabriela - PRAŽENICOVÁ, Romana - JANTOVA, Nikola - HRASNOVA, Patricia - STOCKINGER, Hannes - LEKSA, Vladimír**. Blockade of TMPRSS2-mediated priming of SARS-CoV-2 by lactoferricin. In Frontiers in Immunology, 2022, vol. 13, art. no. 958581. (2021: 8.786 - IF, Q1 - JCR, 2.331 - SJR, Q1 - SJR). ISSN 1664-3224. Dostupné na: https://doi.org/10.3389/fimmu.2022.958581 (VEGA 2/0152/21 : Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie. APVV-20-0513 : Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19)

ADMA04 PEDROSA GOMES, Marcelo** - AKIYAMA KITAMURA, Rafael Shinji - ZORMAN MARQUES, Raizza - LOCATELLI BARBATO, Marcello - ZÁMOCKÝ, Marcel. The Role of H2O2-Scavenging Enzymes (Ascorbate Peroxidase and Catalase) in the Tolerance of Lemna minor to Antibiotics: Implications for Phytoremediation. In Antioxidants, 2022, vol. 11, art. no. 151. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox11010151 (APVV-20-0257 : Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách)

ADMA05 ZÁMOCKÝ, Marcel** - HARICHOVÁ, Janka. Evolution of Heme Peroxygenases: Ancient Roots and Later Evolved Branches. In Antioxidants, 2022, vol. 11, iss. 5, art. no. 1011. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox11051011 (APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. APVV-20-0257 : Strom a krajina – vplyv drevín na diverzitu pôdnych mikroorganizmov v poľnohospodárskej krajine. VEGA č. 2/0012/22)

AEMA Abstrakty vedeckých prác v zahraničných impaktovaných časopisoch registrovaných v databázach Web of Science Core Collection alebo SCOPUS

AEMA01 SARDZIKOVÁ, S. - ŠVEC, P. - BEKE, Gábor - UGRAYOVÁ, S. - HRIC, Ivan - BIELIK, V. - PENESOVÁ, Adela - MIKULA, I. - KĽUČÁR, Ľuboš - KOLENOVÁ, Alexandra - ŠOLTÝS, K. Gut microbiota changes are associated with gender in paediatric oncology patients in conditioning regime before bone marrow transplantation. In FEBS Open Bio, 2022, vol. 12, suppl. S1, p. 58. (2021: 2.792 - IF, Q4 - JCR, 0.591 - SJR, Q2 - SJR). ISSN 2211-5463.

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AFD01 KUBALA, Bohuš - FERIANC, Peter - ZÁMOCKÝ, Marcel. Sekvenačna analýza mykoríznych húb ako potencionálneho rezervoáru peroxidázových génov. In Chémia a technológie pre život : 24. celoslovenská študentská vedecká konferencia s medzinárodnou účasťou ; rec. Michaela Benköová, Jana Blaškovičová. - Bratislava : Slovenská chemická knižnica, 2022, s. 173-174. ISBN 978-80-8208-083-7. Dostupné na internete: https://www.uiam.sk/~oravec/svk/e_zbornik_svk_2022.pdf (VEGA č. 2/0012/22. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. Chémia a technológie pre život : celoslovenská študentská vedecká konferencia. Chémia a technológie pre život : celoslovenská študentská vedecká konferencia)

AFD02 PÁPAYOVÁ, Kristína - KAJSIKOVÁ, Mária - BOCÁNOVÁ, Lucia - BUKOVSKÁ, Gabriela. Baktericídny účinok endolyzínu EN572_5 zo Streptococcus agalactiae. In Študentská vedecká konferencia PriF UK 2022 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Darmara Gajanová ; recenzenti: Alžbeta Blehová, Petra Švábová. 1. vyd. - Bratislava : Univerzita Komenského, 2022, s. 473-478. ISBN 978-80-223-5385-4. (Študentská vedecká konferencia PriF UK 2022. Študentská vedecká konferencia PriF UK 2022)

AFD03 PETROVÁ, Alica - HROMÁDKOVÁ, Terézia - ZÁMOCKÁ, Monika - BAUER, Jacob - BAUEROVÁ, Vladena. Doména „Repeat12“ hRyR2 ako potenciálna väzobná štruktúra = The Repeat12 domain of hRyR2 as a potential binding structure for small molecules. In Študentská vedecká konferencia PriF UK 2022 : zborník recenzovaných príspevkov. Editori: Eva Viglašová, Mária Chovancová, Táňa Sebechlebská, Darmara Gajanová ; recenzenti: Alžbeta Blehová, Petra Švábová. 1. vyd. - Bratislava : Univerzita Komenského, 2022, s. 497-502. ISBN 978-80-223-5385-4. Dostupné na internete: https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_2022.pdf (VEGA č. 2/0131/20 : Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2. Študentská vedecká konferencia PriF UK 2022. Študentská vedecká konferencia PriF UK 2022)

AFF Abstrakty pozvaných príspevkov z domácich konferencií

AFF01 BAUER, Jacob - ŽOLDÁK, Gabriel. Interpretation of Single-Molecule Force Microscopy Experiments Using Normal Mode Analysis. In Chemistry towards Biology 10 Instruct : programme. Abstract Booklet. Recenzenti: Miloš Hricovíni, Josef Jampílek, Roberta Pieratelli, Grazyna Stochel, Janez Plavec, Andras Perczel. - Bratislava : The Institute of Chemistry, Slovak Academy of Sciences, 2022, s. 57. ISBN 978-80-971665-3-3. (VEGA č. 2/0131/20 : Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2. Vega č. 1/0175/19 : Agregácia imunoglobulínov a predikcia ich koloidálnej stability pomocou pokročilých kinetických analýz. APVV-18-0285 : Pochopenie mechanizmu inaktivácie IgG využitím individuálnych molekúl Hsp70 šaperónu a laserovej optickej pinzety. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting)

AFF02 BAUER, Jacob - BAUEROVÁ-HLINKOVÁ, Vladena. The effect of the mutations on the dynamic motion of the N-terminal domain of the human ryanodine receptor 2: towards deeper understanding of cardiac arrhythmias. In Chemistry towards Biology

10 Instruct : programme. Abstract Booklet. Recenzenti: Miloš Hricovíni, Josef Jampílek, Roberta Pieratelli, Grazyna Stochel, Janez Plavec, Andras Perczel. - Bratislava : The Institute of Chemistry, Slovak Academy of Sciences, 2022, s. 36. ISBN 978-80-971665-3-3. (Vega č. 2/0140/16 : Štruktúra a funkcia RIH domén ľudského ryanodínového receptora 2, ich interakcii s ligandami ako základ pre vývoj liečiv v terapii srdcových arytmií. VEGA č. 2/0131/20 : Štúdium vplyvu mutácií asociovaných so srdcovými arytmiami na štruktúru a funkciu ľudského ryanodínového receptora 2. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting)

AFF03 KUTEJOVÁ, Eva - KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - STOJKOVIČOVÁ, Barbora - FRANKOVSKÝ, Ján - KEREïCHE, Sami - LUKÁČOVÁ, Veronika - KRAJČOVIČOVÁ, Veronika - HAVALOVÁ, Henrieta - BAUER, Jacob - PEVALA, Vladimír - BARÁTH, Peter - TOMÁŠKA, Ľubomír. Lon protease – the essential component of mitochondrial homeostasis. In Chemistry towards Biology 10 Instruct : programme. Abstract Booklet. Recenzenti: Miloš Hricovíni, Josef Jampílek, Roberta Pieratelli, Grazyna Stochel, Janez Plavec, Andras Perczel. - Bratislava : The Institute of Chemistry, Slovak Academy of Sciences, 2022, s. 38. ISBN 978-80-971665-3-3. (APVV-15-0375. APVV-19-0068 : Využitie biodiverzity kvasiniek na odhalenie nových mechanizmov udržiavania telomér eukaryotických chromozómov. APVV-15-0022 : Nukleo-proteínové interakcie ako základ udržiavania stability genómu. APVV-19-0298 : Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. Vega č. 2/0069/23. Vega č. 1/0061/20 : Post-translačné a epigenetické modifikácie a ich význam pre reguláciu mitochondriálnych funkcií. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting)

AFF04 PEVALA, Vladimír - ONDROVIČOVÁ, Gabriela - KUNOVÁ, Nina - STOJKOVIČOVÁ, Barbora - MARTINÁKOVÁ, Lucia - HAVALOVÁ, Henrieta - BAUEROVÁ, Vladena - BAUER, Jacob - KOŠŤAN, Július - DJINOVIĆ-CARUGO, Kristina - KUTEJOVÁ, Eva. A new Slovak center for research and teaching activities in structural biology – Interreg V-A Slovakia – Austria project StruBioMol. In Chemistry towards Biology 10 Instruct : programme. Abstract Booklet. Recenzenti: Miloš Hricovíni, Josef Jampílek, Roberta Pieratelli, Grazyna Stochel, Janez Plavec, Andras Perczel. - Bratislava : The Institute of Chemistry, Slovak Academy of Sciences, 2022, s. 41. ISBN 978-80-971665-3-3. (Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting)

AFF05 URBÁNIKOVÁ, Ľubica - JANEČEK, Štefan. Bioinformatics analysis of the family GH13 trehalose synthases with focus on their maltokinase-like domain. In Chemistry towards Biology 10 Instruct : programme. Abstract Booklet. Recenzenti: Miloš Hricovíni, Josef Jampílek, Roberta Pieratelli, Grazyna Stochel, Janez Plavec, Andras Perczel. - Bratislava : The Institute of Chemistry, Slovak Academy of Sciences, 2022, p. 44-45. ISBN 978-80-971665-3-3. (Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting. VEGA č. 2/0146/21 : Amylolytické enzýmy – tisíce sekvencií, stovky štruktúr, desiatky špecificít – a čo evolúcia...?. Chemistry towards Biology (CTB10) - Instruct : Structural Biology Meeting)

AFG Abstrakty príspevkov zo zahraničných konferencií

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AFG02 COHEN, Robin - BEKE, Gábor - KĽUČÁR, Ľuboš - CHOLUJOVÁ, Dana - JAKUBÍKOVÁ, Jana. Development of a free interactive web portal for cytometry data gating. In 21st European Conference on Computational Biology : Planetary Health and Biodiversity: Book of Abstract: ECCB2022. - Barcelona : Barcelona Supercomputing Center, 2022, p. 350. (APVV-19-0212 : Využitie imunologických mechanizmov v rôznych subtypoch B-bunkových lymfómov. European Conference on Computational Biology: Planetary Health and Biodiversity. APVV-20-0183 : Cancer immunoediting in multiple myeloma: immune checkpoints and clinical significance. European Conference on Computational Biology: Planetary Health and Biodiversity)

AFG03 KISOVÁ, Zuzana - PAVLOVIĆ, Jelena - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico - KRAKOVÁ, Lucia - OPÁLKOVÁ ŠIŠKOVÁ, Alena - KLEINOVÁ, Angela - ŠEFČÍKOVÁ, Lucia - MACHÁTOVÁ, Zuzana. Biocleaning of historical painting from XVIII Century – a yeast enzymatic approach. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p10 [p. 116]. ISBN 978-80-88379-18-8. Dostupné na internete: https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. APVV-19-0059 : Farebné škvrny na historických papieroch: biologická a chemická charakterizácia spojená s ich odstraňovaním. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFG04 HADŽEGA, Dominik - MINÁRIK, Gabriel - ŠOLTÝSOVÁ, Andrea - NEMCOVÁ, Petra - KALAVSKÁ, Katarína - KARABA, Marián - BENCA, Juraj - SEDLÁČKOVÁ, Tatiana - PINĎÁK, Daniel - KĽUČÁR, Ľuboš - MEGO, Michal. RNA-seq analysis : primary breast tumour and circulating tumour cells. In 21st European Conference on Computational Biology : Planetary Health and Biodiversity: Book of Abstract: ECCB2022. - Barcelona : Barcelona Supercomputing Center, 2022, p. 176. Dostupné na internete: https://eccb2022.org/wp-content/uploads/2022/11/ECCB2022_Book-of-abstracts_posters_v3_16092022_compressed.pdf (APVV-16-0010 : Identifikácia a validácia signálnych dráh asociovaných s cirkulujúcimi nádorovými bunkami pri karcinóme prsníka. European Conference on Computational Biology: Planetary Health and Biodiversity. European Conference on Computational Biology: Planetary Health and Biodiversity)

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AFG07 KAJSIKOVÁ, Mária - BUKOVSKÁ, Gabriela. Antimicrobial potencial of the phage endolysin EN572-5 against multidrug resistant S. agalactiae. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p40 [p. 146]. ISBN 978-80-88379-18-8. Dostupné na internete: https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFG08 KOZICS, Katarína - KAPUSTOVÁ, Magdaléna - PANGALLO, Domenico - ANNUŠOVÁ, Adriana - GERACI, C. Cyto/genotoxicity of biocompatible nanocapsules loaded with essential oils in human keratinocyte cell line, and their antimicrobial activities. In Genetická toxikologie a prevence rakoviny : Program a abstrakty. - Hlučín : Anna Vavrušová - Alisa Group, 2022, s. 16. ISBN 978-80-88038-10-8. (Genetická toxikologie a prevence rakoviny : Konference s mezinárodní účastí. VEGA 2/0055/20 : Novosyntetizované deriváty tymolu: vzťah medzi štruktúrou a biologickou aktivitou na in vitro modeli čreva. Genetická toxikologie a prevence rakoviny : Konference s mezinárodní účastí)

AFG09 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - KAJSIKOVÁ, Mária - BUKOVSKÁ, Gabriela. Lytic properties of SLT domain from bacteriophage BFK20 tail protein. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p20 [p. 126]. ISBN 978-80-88379-18-8. Dostupné na internete: https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFG10 PAVLOVIĆ, Jelena - BOSCH-ROIG, Pilar - RUSKOVÁ, Magdaléna - PLANÝ, Matej - PANGALLO, Domenico - SANMARTÍN, Particia. Targeted metagenomics sequencing (MinION) of the microbial community in a salt-contaminated twelfth century granite-built chapel. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p21 [p. 127]. ISBN 978-80-88379-18-8. Dostupné na internete: https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. VEGA č. 2/099/2021. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFG11 RUSKOVÁ, Magdaléna - HOFBAUEROVÁ, Monika, Benkovičová - PUŠKÁROVÁ, Andrea - BUČKOVÁ, Mária - ANNUŠOVÁ, Adriana - PANGALLO, Domenico. Antibiofilm activity of poly(ε-caprolactone) nanocapsules loaded with essential oils for protection and disinfection whitewood and sandstone. In 29. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : Abstrakty-Prednášky-Postery, 15. - 17. 9. 2022, Brno. 1. vydanie. - Brno : Československá společnost mikrobiologická z.s., 2022, p22 [p. 128]. ISBN 978-80-88379-18-8. Dostupné na internete: https://system.bpp.cz/upload/files/%C4%8CSSM%202022/Sborn%C3%ADk%20slou%C4%8Deno.pdf (Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny. VEGA 2/0082/22 : Využitie biokompatibilných 2D nanomateriálov a nanočastíc ako ochrana pred biodeterioráciou rôznych druhov povrchov. Kongres Československé společnosti mikrobiologické s mezinárodní účastí : 28. Moravsko-slovenské mikrobiologické dny)

AFG12 RUSKOVÁ, Magdaléna - BUČKOVÁ, Mária - PUŠKÁROVÁ, Andrea - PANGALLO, Domenico. Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in waste water environment. In Proceedings : 6th International Congress on Water, Waste and Energy Management (WWEM-22), 20-22 July Rome Italy : Abstracts Book. - Badajoz : Sciknowledge Education Conferences, 2022, p. [29]. ISBN 978-84-09-42559-4. ISSN 2659-8701. Dostupné na internete: https://scik.eu/Rome2022//Congres/water22/Pag.024%20Effective%20sample%20preparation%20and%20improved%20RT-PCR%20for%20highly%20sensitive%20detection%20of%20SARS%20(M.%20Ruskova).pdf (SAS-MOST/JRP/2020/1122 : PathogenTracke. EIG CONCERT-Japan/2019/881/SuWaCer : Sustainable Water Reclamation Based on Ceramic Membrane Filtration. Water, Waste and Energy Management (WWEM-22) : International Congress)

AFG13 URBÁNIKOVÁ, Ľubica - GEROVÁ, Martina - BRYNDA, Jiří - KOŠAN, Július - HALGAŠOVÁ, Nora - BUKOVSKÁ, Gabriela. The unique structure of the cell wall binding domain of phage endolysin. In Materials Structure in Chemistry, Biology, Physics and Technology, 2022, vol. 28, no. 2, pp. 106-107. ISSN 1211-5894. Dostupné na internete: http://www.xray.cz/ms/bul2022-2/s8.pdf (Struktura 2022 : konference)

AFH Abstrakty príspevkov z domácich konferencií

AFH01 BARÁK, Imrich - KRAJČÍKOVÁ, Daniela - VETRÁKOVÁ, Andrea - KALIANKOVÁ-CHOVANOVÁ, Romana - RECHTORÍKOVÁ, Radoslava. Spore

Coat Protein 2D Crystals as a Challenge for Structure Studies at XFEL. In School of XFEL and Synchrotron Radiation Users - SFEL 2022 : Book of Abstracts. 1. vyd. - [Košice] : Pavol Jozef Šafárik University, 2022, p. 22, N-08. ISBN 978-80-574-0130-8. (School of XFEL and Synchrotron Radiation Users – SFEL 2022. School of XFEL and Synchrotron Radiation Users – SFEL 2022)

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BDMA02 ZÁMOCKÝ, Marcel. Discovering Diverse Roles of Peroxidases and Catalases in Photosynthetic and Non-Photosynthetic Eukaryotes. In Antioxidants, 2022, vol. 11, art. no. 2337. (2021: 7.675 - IF, Q1 - JCR, 1.008 - SJR, Q1 - SJR). ISSN 2076-3921. Dostupné na: https://doi.org/10.3390/antiox11122337 (APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. VEGA č. 2/0012/22)

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

FAI01 Biologia. Editors [2007-] Štefan Janeček, [2009, 2013-] Mária Kazimírová, [2018-] Katarína Hegedüšová Vantarová, [managing editor Section Botany: 2017-]

František Hindák, [2000-2017] Igor Mistrík. Cham : Springer International Publishing, 2018-. Copyrith a vlastník: Centrum biologie a rastlin a biodiverzity SAV, Ústav zoológie SAV, Ústav molekulárnej biológie SAV. 12 x ročne. ISSN 0006-3088

GHG Práce zverejnené spôsobom umožňujúcim hromadný prístup

GHG01 POLJOVKA, Andrej - ZÁMOCKÝ, Marcel. Molekulárna detekcia, analýza a expresia fungálnych peroxidáz na biotechnologické využitie. In Konferencia 30 rokov Katedry molekulárnej biológie a 50 rokov technológie rekombinantnej DNA : zborník recenzovaných príspevkov. 1. vyd. - Bratislava : Katedra molekulárnej biológie, Prírodovedecká fakulta UK, 2022, s. 69-70. Dostupné na internete: https://fns.uniba.sk/uploads/media/Zbornik_konferencie_30._rokov_Katedry_molekularnej_biologie_a_50._rokov_technologie_rekombinantnej_DNA.pdf (VEGA č. 2/0012/22. APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. Konferencia 30 rokov Katedry molekulárnej biológie a 50 rokov technológie rekombinantnej DNA. Konferencia 30 rokov Katedry molekulárnej biológie a 50 rokov technológie rekombinantnej DNA)

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GII02 CHROMÍKOVÁ, Zuzana - CHOVANOVÁ, Katarína - TAMINDŹIJA, Dragana - BÁRTOVÁ, Barbora - RADNOVIĆ, Dragan - LATMANI-BERNIER, Rizlan - BARÁK, Imrich. Implantation of Bacillus pseudomycoides chromate efflux pump increases chromate tolerance in Bacillus subtilis. In 21st. International Conference on Bacilli and Gram-Positive Bacteria. 1. vyd. - Praha : Institute of Microbiology, Czech Academy of Sciences, 2022, p. 203. (VEGA č. 2/0001/21 : Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. APVV-18-0104 : Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry. 21st International Conference on Bacilli and Gram-Positive Bacteria : International. 21st International Conference on Bacilli and Gram-Positive Bacteria : International)

GII03 KALIANKOVÁ-CHOVANOVÁ, Romana - GUCKÁ, Andrea - RECHTORÍKOVÁ, Radoslava - BARÁK, Imrich. Use of Bacillus subtilis spores displaying RBD domain of SARS-Cov-2 spike protein as a potential oral vaccine. In 21st. International Conference on Bacilli and Gram-Positive Bacteria. 1. vyd. - Praha : Institute of Microbiology, Czech Academy of Sciences, 2022, p. 214. (VEGA č. 2/0001/21 : Ako bunka nájde miesto asymetrického delenia počas sporulácie Bacillus subtilis. APVV-18-0104 : Asymetrické bunkové delenie počas tvorby bakteriálnej endospóry. 21st International Conference on Bacilli and Gram-Positive Bacteria : International. 21st International Conference on Bacilli and Gram-Positive Bacteria : International)

GII04 KUNOVÁ, Nina - ONDROVIČOVÁ, Gabriela - KEREICHE, Sami - PINKAS, Matyas - BAUER, Jacob - LUKÁČOVÁ, Veronika - STOJKOVIČOVÁ, Barbora - KRAJČOVIČOVÁ, Veronika - HAVALOVÁ, Henrieta - PEVALA, Vladimír - BARÁTH, Peter - NOVÁČEK, Jiří - KUTEJOVÁ, Eva. Phosphorylation of human mitochondrial LON protease disrupts its functions. In Cell Symposia: Multifaceted Mitochondria. - Seville : Elsevier Conferences, 2022, p. 122. (Cell Symposia: Multifaceted Mitochondria)

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GII07 MAJTÁN, Juraj - PELKA, Karolina - BUČEKOVÁ, Marcela - GODOČÍKOVÁ, Jana - SZWEDA, Piotr. Glucose oxidase, a bee-derived enzyme, as an important factor determining the antibacterial activity of bee pollen and bee bread. In 47th Apimondia : Abstract book. - [Rím] : [Apimondia], 2022, p. 82. (47th Apimondia : International Apicultural Congress. 47th Apimondia : International Apicultural Congress)

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GII10 PÁPAYOVÁ, Kristína - BOCÁNOVÁ, Lucia - BUKOVSKÁ, Gabriela.

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GII11 PEVALA, Vladimír - STOJKOVIČOVÁ, Barbora - ONDROVIČOVÁ, Gabriela - BELLOVÁ, Jana - LUKÁČOVÁ, Veronika - KUNOVÁ, Nina - HODOROVÁ, Veronika - HAVALOVÁ, Henrieta - MARTINÁKOVÁ, Lucia - PROCHÁZKOVÁ, Katarína - BREJOVÁ, Broňa - TOMÁŠKA, Ľubomír - HORVÁTH, Anton - BARÁTH, Peter - NOSEK, Jozef - KUTEJOVÁ, Eva. The story of yeast Lon protease in the mitochondrial DNA maintenance and assembly of respiratory chain complexes. In ISF Workshop: Mitochondria Past & Present: Evolution, Proteostasis, Dynamics and Disease : Abstracts, 13-16 November, 2022, Kibbutz Ein Gedi, Dead Sea, Israel. - Kibbutz Ein Gedi : Israel Science Foundation, 2022, pp. 22-23. (ISF Workshop : Mitochondria Past & Present: Evolution, Proteostasis, Dynamics and Disease. Vega č. 2/0069/23. APVV-18-0239 : Nekonvenčné aplikácie nových sekvenačných technológií v komparatívnej a funkčnej genomike. APVV-19-0298 : Vzájomná inerakcia proteáz, šaperónov a kináz v mitochodriách pri strese spôsobenom patologickými stavmi. APVV-15-0375. ISF Workshop : Mitochondria Past & Present: Evolution, Proteostasis, Dynamics and Disease)

GII12 ŠŤASTNÝ, Dominik - PETRISKOVÁ, Lívia - TAHOTNÁ, Dana - BAUER, Jacob - COCKCROFT, Shamshad - HOLIČ, Roman - VALACHOVIČ, Martin - GRIAČ, Peter. Yeast phosphatidylinositol transfer proteins Pdr16p and Pdr17p bind and transfer lanosterol as second ligand. In Inositol lipids: Signaling platforms for organizing cellular architecture and physiology : November 14 – 17, 2022, NCBS, Bangalore, India. - India : National Centre for Biological Sciences, 2022, p. 56. (Inositol lipids: Signaling platforms for organizing cellular architecture and physiology)

GII13 ZÁMOCKÝ, Marcel - HARICHOVÁ, Janka - FURTMÜLLER, Paul G. Uncovering the Peculiar Evolution of Thyroid Peroxidases and Their Ancestors from Non-Vertebrates Towards Mammals with Consequences for Thyroid Hormone Biosynthesis. In 3rd International Conference on Cell & Experimental Biology : Abstract Book. [1. ed.]. - Plano : United Scientific Group (A non-profit organization), 2022, p. 7-8. (APVV-20-0284 : Hybridné hémové peroxidázy húb z pralesa s využitím v environmentálnych biotechnológiách. Cell & Experimental Biology : International Conference. Cell & Experimental Biology : International Conference)

GII14 ZÁMOCKÝ, Marcel - KOMÁREK, Ondrej - HARICHOVÁ, Janka - FERIANC, Peter - FOJTÍK, Miroslav. Discovery of antioxidant enzymes in green algae - promising applications in biotech and pharmacy. In Green for Good VI. : Global Challenges. 1. vyd. - Barcelona : European Federation of Biotechnology Plant, Agriculture and Food Division, 2022, p. 31. (Green for Good VI. : vedecká konferencia. Green for Good : vedecká konferencia)

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5. [1.1] SHEFF, J.G. - KELLY, J.F. - ROBOTHAM, A. - SULEA, T. - MALENFANT, F. - L';ABBE, D. - DUCHESNE, M. - PELLETIER, A. - LEFEBVRE, J. - ACEL, A. - PARAT, M. - GOSSELIN, M. - WU, C.L. - FORTIN, Y. - BAARDSNES, J. - VAN FAASSEN, H. - AWREY, S. - CHAFE, S.C. - MCDONALD, P.C. - DEDHAR, S. - LENFERINK, A.E.G. Hydrogen-deuterium exchange mass spectrometry reveals three unique binding responses of mAbs directed to the catalytic domain of hCAIX. In MABS. ISSN 1942-0862, JAN 1 2021, vol. 13, no. 1., Registrované v: WOS
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Carbonic Anhydrase IX. In FRONTIERS IN ONCOLOGY. ISSN 2234-943X, JUN 25 2021, vol. 11., Registrované v: WOS

ADMB04 MARTINOVIČOVÁ, M. - JANEČEK, Štefan**. In silico analysis of the α-amylase family GH57: eventual subfamilies reflecting enzyme specificities. In 3 Biotech, 2018, vol. 8, p. 307. (2017: 0.511 - SJR, Q2 - SJR, karentované - CCC). (2018 - Current Contents). ISSN 2190-5738. Dostupné na: https://doi.org/10.1007/s13205-018-1325-9

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1. [1.1] LIU, Q.Z. - HE, G.Q. - WEI, J.K. - DONG, C.H. Comparative transcriptome analysis of cells from different areas reveals ROS responsive mechanism at sclerotial initiation stage in Morchella importuna. In SCIENTIFIC REPORTS. ISSN 2045-2322, MAY 3 2021, vol. 11, no. 1., Registrované v: WOS

2. [1.1] PAUL, J.S. - GUPTA, N. - BELIYA, E. - TIWARI, S. - JADHAV, S.K. Aspects and Recent Trends in Microbial alpha-Amylase: a Review. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, AUG 2021, vol. 193, no. 8, p. 2649-2698., Registrované v: WOS

3. [1.1] XIA, W. - ZHANG, K. - SU, L.Q. - WU, J. Microbial starch debranching enzymes: Developments and applications. In BIOTECHNOLOGY ADVANCES. ISSN 0734-9750, SEP-OCT 2021, vol. 50., Registrované v: WOS

4. [1.1] XIANG, Gang - LEEMHUIS, Hans - VAN DER MAAREL, Marc Jos Elise Cornelis. Structural elements determining the transglycosylating activity of glycoside hydrolase family 57 glycogen branching enzymes. In PROTEINS-STRUCTURE FUNCTION AND BIOINFORMATICS, 2021, vol., no., pp. ISSN 0887-3585. Dostupné na: https://doi.org/10.1002/prot.26200., Registrované v: WOS

5. [1.2] LI, Xiaoxiao - JI, Hangyan - ZHAI, Yitan - BAI, Yuxiang - JIN, Zhengyu. Characterizing a thermostable amylopullulanase from Caldisericum exile with wide pH adaptation and broad substrate specificity. In Food Bioscience, 2021-06-01, 41, pp. ISSN 22124292. Dostupné na: https://doi.org/10.1016/j.fbio.2021.100952., Registrované v: SCOPUS

ADMB05 SADIAN, Y. - GATSOGIANNIS, C. - PATASI, Csilla - HOFNAGEL, O. - GOODY, R.S. - FARKAŠOVSKÝ, Marian - RAUNSER, S. The role of Cdc42 and Gic1 in the regulation of septin filament formation and dissociation. In eLife, 2013, vol. 2, no. e01085. (2013 - SCOPUS). ISSN 2050-084X. Dostupné na: https://doi.org/10.7554/eLife.01085

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1. [1.1] KANDI, Ravinder - SENGER, Katharina - GRIGORYAN, Ani - SOLLER, Karin - SAKK, Vadim - SCHUSTER, Tanja - EIWEN, Karina - MENON, Manoj B. - GAESTEL, Matthias - ZHENG, Yi - FLORIAN, Maria Carolina - GEIGER, Hartmut. Cdc42-Borg4-Septin7 axis regulates HSC polarity and function. In EMBO REPORTS, 2021, vol. 22, no. 12, pp. ISSN 1469-221X. Dostupné na: https://doi.org/10.15252/embr.202152931., Registrované v: WOS

2. [1.1] SCHUSTER, Tanja - GEIGER, Hartmut. Septins in Stem Cells. In FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY, 2021, vol. 9, no., pp. ISSN 2296-634X. Dostupné na: https://doi.org/10.3389/fcell.2021.801507., Registrované v: WOS

3. [1.1] SOROOR, Forooz - KIM, Moshe S. - PALANDER, Oliva - BALACHANDRAN, Yadu - COLLINS, Richard F. - BENLEKBIR, Samir - RUBINSTEIN, John L. - TRIMBLE, William S. Revised subunit order of mammalian septin complexes explains their in vitro polymerization properties. In MOLECULAR BIOLOGY OF THE CELL, 2021, vol. 32, no. 3, pp. 289-300. ISSN 1059-1524. Dostupné na: https://doi.org/10.1091/mbc.E20-06-0398., Registrované v: WOS

ADNB Vedecké práce v domácich neimpaktovaných časopisoch registrovaných v databázach Web of Science alebo SCOPUS

ADNB01 PLANÝ, Matej - KUCHTA, T. - ŠOLTÝS, K. - SZEMEŠ, T. - PANGALLO, Domenico - SIEKEL, P. Metagenomic analysis of Slovak bryndza cheese using next-generation 16S rDNA amplicon. In Nova Biotechnologica et Chimica, 2016, vol. 15, no. 1, p. 23-34. (2015: 0.168 - SJR, Q4 - SJR). ISSN 1338-6905. Dostupné na: https://doi.org/10.1515/nbec-2016-0003

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1. [1.2] DE PAULA, A.C.L. - MEDEIROS, J.D. - FERNANDES, G.R. - DA SILVA, V.L. - DINIZ, C.G. Microbiome of industrialized Minas Frescal Cheese reveals high prevalence of putative bacteria: A concern in the One Health context. In LWT-FOOD SCIENCE AND TECHNOLOGY. ISSN 0023-6438, MAR 2021, vol. 139., Registrované v: SCOPUS

2. [1.2] LAUKOVA, A. - MICENKOVA, L. - SIMONOVA, M.P. - FOCKOVA, V. - SCERBOVA, J. - TOMASKA, M. - DVOROZNAKOVA, E. - KOLOSTA, M. Microbiome Associated with Slovak Traditional Ewe';s Milk Lump Cheese. In PROCESSES. SEP 2021, vol. 9, no. 9., Registrované v: SCOPUS

3. [1.2] LAUKOVA, A. - TOMASKA, M. - KMET, V. - STROMPFOVA, V. - SIMONOVA, M.P. - DVOROZNAKOVA, E. Slovak Local Ewe';s Milk Lump Cheese, a Source of Beneficial Enterococcus durans Strain. In FOODS. DEC 2021, vol. 10, no. 12., Registrované v: SCOPUS

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

AFE01 URZI, C. - DE LEO, F. - BRUNO, L. - KRAKOVÁ, Lucia - PANGALLO, Domenico - ALBERTANO, P. How to control biodeterioration of cultural heritage: an integrated methodological approach for the diagnosis and treatment of affected monuments. In Symposium on Works of Art & Conservation Science Today : book of abstracts. - Thessaloniki, 2010, p. 1-9.

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1. [1.1] OKPALANOZIE, O.E. - ADETUNJI, O.S. Architectural Heritage Conservation in Nigeria: The Need for Innovative Techniques. In HERITAGE. SEP 2021, vol. 4, no. 3, p. 2124-2139., Registrované v: WOS

2. [1.1] SANMARTIN, P. - CARBALLEIRA, R. Changes in heterotrophic microbial communities induced by biocidal treatments in the Monastery of San Martino Pinario (Santiago de Compostela, NW Spain). In INTERNATIONAL BIODETERIORATION & BIODEGRADATION. ISSN 0964-8305, JAN 2021, vol. 156., Registrované v: WOS

AFG Abstrakty príspevkov zo zahraničných konferencií

AFG01 JANEČEK, Štefan - SVENSSON, B. - MACGREGOR, E.A. Alpha-amylase - an enzyme present in various sequence-based glycoside hydrolase families. In FEBS Journal, 2013, vol. 280, p. SI546-546. (2012: 4.250 - IF, Q2 - JCR, 2.085 - SJR, Q1 - SJR, karentované - CCC). (2013 - Current Contents). ISSN 1742-464X.

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1. [1.1] ZHANG, Q. - PRITCHARD, J. - MIEOG, J. - BYRNE, K. - COLGRAVE, M.L. - WANG, J.R. - RAL, J.P.F. Overexpression of a wheat alpha-amylase type 2 impact on starch metabolism and abscisic acid sensitivity during grain germination. In PLANT JOURNAL. ISSN 0960-7412, OCT 2021, vol. 108, no. 2, p. 378-393., Registrované v: WOS

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

GII01 SVENSSON, B. - JANEČEK, Štefan. Glycoside hydrolase family 13. Dostupné na internete: http://www.cazypedia.org/

Citácie:

1. [1.1] PAUL, J.S. - GUPTA, N. - BELIYA, E. - TIWARI, S. - JADHAV, S.K. Aspects and Recent Trends in Microbial alpha-Amylase: a Review. In APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY. ISSN 0273-2289, AUG 2021, vol. 193, no. 8, p. 2649-2698., Registrované v: WOS

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

Jacob Bauer, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Pokročilé metódy v molekulárnej biológii
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 20
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Funkčná analýza proteínov a modelovanie
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.

Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Vladimír Leksa, PhD.
Názov semestr. predmetu: Základy molekulárnej imunológie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochémie

Ing. Juraj Majtán, DrSc.
Názov semestr. predmetu: Med a prínos pre zdravie človeka
Počet hodín za semester: 2
Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Univerzita tretieho veku

Semestrálne cvičenia:

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Gábor Beke, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Aplikovaná biológia II
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

Mgr. Milan Hučko
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 52
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Funkčná analýza proteínov a modelovanie
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biotechnológií

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Molekulárno-biologické databázy
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Pokročilá bioinformatika
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Proteínový dizajn
Počet hodín za semester: 26
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

prof. Ing. Štefan Janeček, DrSc.
Názov semestr. predmetu: Základy bioinformatiky
Počet hodín za semester: 13
Názov katedry a vysokej školy: Fakulta prírodných vied UCM, Katedra biológie

Mgr. Ráchel Javorová
Názov semestr. predmetu: Cvičenia z mikrobiológie
Počet hodín za semester: 4
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Nikola Klištincová
Názov semestr. predmetu: Základné cvičenie z molekulárnej biológie
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Bioinformatika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Ľuboš Kľučár, PhD.
Názov semestr. predmetu: Výpočtová genomika
Počet hodín za semester: 26
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Kristína Pápayová
Názov semestr. predmetu: Molekulárna biológia - cvičenia
Počet hodín za semester: 15
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

Mgr. Adam Poláček
Názov semestr. predmetu: Základné cvičenia z Biochémie
Počet hodín za semester: 16
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Biochémie

Mgr. Andrej Poljovka
Názov semestr. predmetu: Cvičenie zo základnej molekulárnej biológie
Počet hodín za semester: 14
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Molekulárna biológia

Mgr. Romana Praženicová
Názov semestr. predmetu: Biochémia 1
Počet hodín za semester: 21
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra biochémie

Mgr. Magdaléna Rusková
Názov semestr. predmetu: Cvičenia z mikrobiológie
Počet hodín za semester: 12
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra mikrobiológie a virológie

Mgr. Silvia Žarnovičanová
Názov semestr. predmetu: Základné cvičenia z molekulárnej biológie
Počet hodín za semester: 14
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra molekulárnej biológie/Ústav molekulárnej biológie

Semináre:

Jacob Bauer, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

Mgr. Vladena Bauerová, PhD.
Názov semestr. predmetu: Proteomika ľudských patogénov
Počet hodín za semester: 6
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra mikrobiológie a virológie

RNDr. Lucia Bocánová, PhD.
Názov semestr. predmetu: Molekulárna biológia
Počet hodín za semester: 10
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

Mgr. Romana Praženicová
Názov semestr. predmetu: Molekulárna biológia

Počet hodín za semester: 1
Názov katedry a vysokej školy: Univerzita sv. Cyrila a Metoda v Trnave, Katedra biológie

RNDr. Ľubica Urbániková, CSc.
Názov semestr. predmetu: Štruktúrna biológia - Kryštalografia proteínov a nukleových kyselín
Počet hodín za semester: 24
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochémie

Terénne cvičenia:

Individuálne prednášky:

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: genetika modelovych organizmov
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

RNDr. Imrich Barák, DrSc.
Názov semestr. predmetu: Pokrocile prednasky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra biochemie

RNDr. Ján Kormanec, DrSc.
Názov semestr. predmetu: Antibiotiká
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra Biochémie

Ing. Eva Kutejová, DrSc.
Názov semestr. predmetu: Vybrané kapitoly z genetiky
Počet hodín za semester: 2
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra genetiky

Príloha E

Medzinárodná mobilita organizácie

(A) Vyslanie vedeckých pracovníkov do zahraničia na základe dohôd:

Krajina	**D r u h d o h o d y**					
	MAD, KD, VTS		**Medziústavná**		**Ostatné**	
	Meno pracovníka	**Počet dní**	**Meno pracovníka**	**Počet dní**	**Meno pracovníka**	**Počet dní**
Albánsko					Ľuboš Kľučár	5
Česko					Vladena Bauerová	4
					Naďa Labajová	12
Fínsko					Ľuboš Kľučár	4
Nemecko					Marian Farkašovský	56
Portugalsko					Mária Bučková	7
					Ráchel Javorová	10
					Andrea Puškárová	7
					Magdaléna Rusková	60
Taliansko					Zuzana Farkas	60
					Domenico Pangallo	17
Počet vyslaní spolu					**11**	**242**

(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**
Belgicko			Robin Cohen	144	Xavier Tomisinec Vandoren	144
Španielsko					Anxo Mendez Villar	58
					Diana Perez Velon	58
Taliansko					Alessio Fontanot	85
					Francesca Maisto	170

					Pierluca Nuccetelli	181
Počet prijatí spolu			**1**	**144**	**6**	**696**

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	29-KCSSM	Zuzana Farkas	4
		Nora Halgašová	4
		Mária Kajsiková	4
		Kristína Pápayová	4
		Jelena Pavlović	4
		Magdaléna Rusková	4
	305. Rozhovory	Ľubica Urbániková	2
	G4G	Marcel Zámocký	4
	Gram positive Conference	Imrich Barák	4
		Zuzana Chromiková	4
		Naďa Labajová	4
		Katarína Muchová	4
		Andrea Vetráková	4
		Silvia Žarnovičanová	4
	Prague Autumn School	Jelena Pavlović	7
	Struktura 2022	Ľubica Urbániková	4
	XVIII Dicsussions in Structural Molecular Biology	Vladena Bauerová	3
	XXI. setkani biochemiku a molekularnich biologu	Iveta Jahodová	2
Grécko	Extremophiles_2022	Štefan Janeček	6
		Adam Poláček	6
Holandsko	Instruct Biennial Structural Biology Conference Ch	Vladena Bauerová	4
India (online)	BSBB-2022	Štefan Janeček	1
Izrael	ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolutio	Eva Kutejová	7
	•ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolut	Vladimír Pevala	7
Portugalsko	TRAINING COURSE FOOD PACKAGING	Magdaléna Rusková	7
Rakúsko	3rd StruBioMol Workshop: Macromolecular Structure	Jacob Bauer	2
		Vladena Bauerová	2

Španielsko	Cell Symposia: Multifaceted Mitochondria	Henrieta Havalová	5
		Nina Kunová	5
		Gabriela Ondrovičová	5
	ECCB2022	Gábor Beke	4
		Ľuboš Kľučár	4
Švédsko	EMBO Workshop: Molecular biology of mitochondrial	Vladimír Pevala	7
Taliansko	Oxizymes 2022	Marcel Zámocký	4
	WWEM-22	Mária Bučková	5
		Andrea Puškárová	5
		Magdaléna Rusková	5
Turecko	Apimondia 2022	Juraj Majtán	6
USA (online)	CEB 2022	Marcel Zámocký	3
Spolu	**22**	**39**	**170**

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

Skratky použité v tabuľke C:

29-KCSSM - 29. Kongres Československé společnosti mikrobiologické
305. Rozhovory - 305. Rozhovory o aktuálních otázkách v rentgenové a neutronové strukturní analýze
3rd StruBioMol Workshop: Macromolecular Structure - 3rd StruBioMol Workshop: Macromolecular Structure Determination, analysis and validation
Apimondia 2022 - The 47th Apimondia Congress
BSBB-2022 - International Conference on Biotechnology for Sustainable Bioresources and Bioeconomy
CEB 2022 - 3rd International Conference on Cell & Experimental Biology
Cell Symposia: Multifaceted Mitochondria - Cell Symposia: Multifaceted Mitochondria
ECCB2022 - 21st European Conference on Computational Biology
EMBO Workshop: Molecular biology of mitochondrial - EMBO Workshop: Molecular biology of mitochondrial gene maintenance and expression
Extremophiles_2022 - 13th International Congress on Extremophiles
G4G - Green for Good VI
Gram positive Conference - 21st International Conference on Bacilli and Gram-Positive Bacteria
Instruct Biennial Structural Biology Conference Ch - Instruct Biennial Structural Biology Conference Changes in structural biology: challenges in studying dynamics
ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolutio - ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolution, Proteostasis, Dynamics and Disease
Oxizymes 2022 - Oxizymes in Siena
Prague Autumn School - 7th Prague Autumn School - RNASeq Data Analysis Workshop
Struktura 2022 - Struktura 2022 Kolokvium krystalografické společnosti
TRAINING COURSE FOOD PACKAGING - TRAINING COURSE IN LIFE CYCLE ASSESSMENT METHODOLOGY FOR FOOD PACKAGING
WWEM-22 - 6th International Congress on Water, Waste and Energy Management
XVIII Dicsussions in Structural Molecular Biology - XVIII Dicsussions in Structural Molecular Biology and the 5th User Meeting of CIISB
XXI. setkani biochemiku a molekularnich biologu - XXI. setkani biochemiku a molekularnich biologu
•ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolut - •ISF Workshop MITOCHONDRIA PAST & PRESENT: Evolution, Proteostasis, Dynamics and Disease

Príloha F

Vedecko-popularizačná činnosť pracovníkov organizácie SAV

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
RNDr. Imrich Barák, DrSc.		IN	Ked-sa-naucime-spolupracovat-prezijeme	https://www.vedaodpoveda.sk/sk/rozhovory/2022/ked-sa-naucime-spolupracovat-prezijeme.html	6.10.2022
RNDr. Imrich Barák, DrSc.		PB	Krása baktérií na molekulárnej úrovni	CVTI	24.2.2022
RNDr. Imrich Barák, DrSc.		TL	Krása všadeprítomných baktérií	Aktuality	18.9.2022
RNDr. Imrich Barák, DrSc.		TV	Neskoro vecer	RTVS1	7.10.2022
RNDr. Imrich Barák, DrSc.		IN	Otrasné šarlatánske praktiky: biorezonancia – pseudoterapia, ktorou možno „oblbli“ aj vášho známeho	https://refresher.sk/45188-Otrasne-sarlatanske-praktiky-biorezonancia-pseudoterapia-ktorou-mozno-oblbli-aj-vasho-znameho	10.1.2022
RNDr. Imrich Barák, DrSc.		RO	The fascinating process of bacterial ‘sporulation'	Rádio Slovakia International	15.3.2022
Mgr. Marcela Bučeková, PhD.		PB	MEDicína - Veda v CENTRE, CVTI SR	https://www.youtube.com/watch?v=hiEBWy4U6II	15.12.2022
Mgr. Marcela Bučeková, PhD.		IN	Podcast SHARE pre Živé.sk	Internet	18.7.2022
Mgr. Marcela Bučeková, PhD.		TV	Reportáž VAT - Veda a technika	RTVS televízia	3.9.2022
Mgr. Marcela Bučeková, PhD.		TV	Televízne noviny	Tv Markíza	3.9.2022
Mgr. Vladimír Leksa, PhD.		TV	popolarizačné články a rozhovory v médiách	RTVS	19.1.2022
Ing. Juraj Majtán, DrSc.		IN	Majtán: Medom zo štedrovečerného stola sa robil krížik na čele	TASR	24.12.2022
Ing. Juraj Majtán, DrSc.		IN	Honey expert: Slovakia has world-leading expertise	https://spectator.sme.sk/	24.6.2022
Ing. Juraj Majtán, DrSc.		IN	J. Majtán: Med pomáha pri liečbe rán, popálenín či herpesu	TASR	22.12.2022
Ing. Juraj Majtán, DrSc.		IN	J. Majtán: Slovenský med patrí medzi najkvalitnejšie na svete	TASR	18.12.2022
Ing. Juraj Majtán, DrSc.		TV	Kvalita medu	Ranné noviny TV JOJ	31.12.2022
Ing. Juraj Majtán,		IN	Med hojí rany a má	www.dobrenoviny.sk	8.4.2022

DrSc.			antibakteriálne účinky		
Ing. Juraj Majtán, DrSc.		IN	Mikrobiológ: Ako správne jesť med? Je zbytočné dávať ho do koláčov či horúceho čaju.	https://www.sme.sk/	3.6.2022
Ing. Juraj Majtán, DrSc.		IN	Na Slovensku máme špičkový med. Je čas, aby sa začal bežne používať i v medicíne	www.postoj.sk	20.11.2022
Ing. Juraj Majtán, DrSc.		IN	Na Slovensku máme unikátne laboratórium, v ktorom testujú kvalitu medu. Vzorky chodia až z Novej Kaledónie.	www.dobrenoviny.sk	27.8.2022
Ing. Juraj Majtán, DrSc.		IN	NOVÝ AKREDITOVANÝ TEST ODHALÍ ANTIBAKTERIÁLNY POTENCIÁL MEDU	www.sav.sk	20.5.2022
Ing. Juraj Majtán, DrSc.	Marcela Bučeková	TL	Medové laboratórium získalo Cenu za transfer technológií	Akadémia Správy SAV 6/2022	15.12.2022
Mgr. Vladimír Leksa, PhD.		TL	články a rozhovory	SME, Denník N	30

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