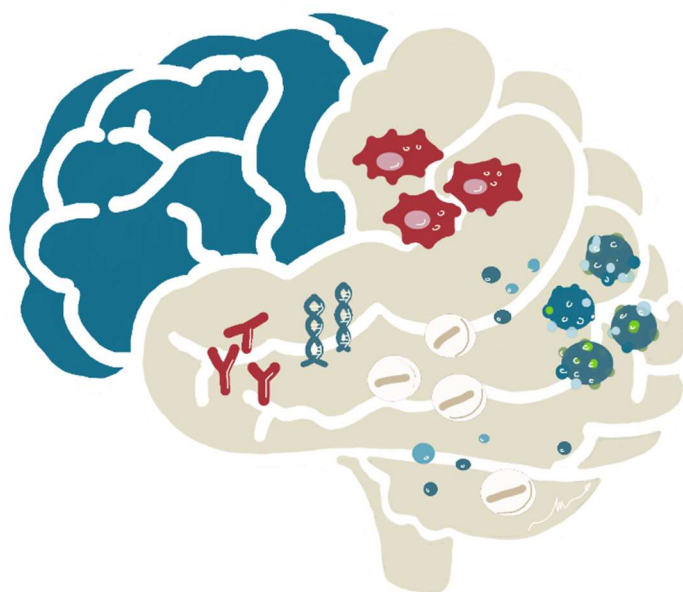


Neuroimunologický ústav SAV, v. v. i.



**Výročná správa o činnosti a hospodárení
za rok 2024**



Bratislava
február 2025

Obsah

ČASŤ A

Výročná správa o činnosti organizácie za rok 2024

1. Základné údaje o organizácii
2. Vedecko-výskumná činnosť – projekty, výsledky
3. Medzinárodná vedecká spolupráca
4. Aplikácia výsledkov výskumu v praxi
5. Doktorandské štúdium a pedagogická činnosť
6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu
7. Vedecko-organizačné a popularizačné aktivity
8. Aktivity pre Národnú radu SR, vládu SR, ústredné orgány štátnej správy SR a iné inštitúcie
9. Aktivity v orgánoch SAV
10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv
11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii
12. Činnosť knižnično-informačného pracoviska organizácie
13. Nadácie a fondy pri organizácii
14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie
15. Iné významné činnosti organizácie
16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám
17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku
18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

PRÍLOHY K ČASTI A

A-1 Zoznam zamestnancov a doktorandov organizácie k 31.12.2024

A-2 Projekty riešené v organizácii

A-3 Publikačná činnosť organizácie

A-4 Údaje o pedagogickej činnosti organizácie

A-5 Medzinárodná mobilita organizácie

A-6 Vedecko-popularizačná činnosť pracovníkov organizácie

A-7 Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom

ČASŤ B

Výročná správa o hospodárení organizácie za rok 2024

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

ČASŤ A

Neuroimunologický ústav SAV, v. v. i.

**Výročná správa o činnosti organizácie
za rok 2024**

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Neuroimunologický ústav SAV, v. v. i.

Riaditeľ: doc. MVDr. Norbert Žilka, DrSc.

Zástupca riaditeľa: prof. RNDr. Eva Kontseková, DrSc.

Vedecký tajomník: RNDr. Monika Žilková, PhD.

Predseda správnej rady: doc. MVDr. Norbert Žilka, DrSc.

Predseda vedeckej rady: Mgr. Branislav Kováčech, PhD.

Predseda dozornej rady: prof. RNDr. Ľubica Lacinová, DrSc.

Člen Snemu SAV: RNDr. Rostislav Škrabana, PhD.

Adresa: Dúbravská cesta 9, 845 10 Bratislava 45

<https://niu.sav.sk>

Tel.: 02/232 296 111

E-mail: dominika.paulikova@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	57	25	32	2	6	51	46.97	26.19	0
Vedeckí pracovníci	34	16	18	1	4	32	29.19	22.49	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci ¹)	8	4	4	0	1	7	7	3.7	0

Odborní pracovníci VŠ (ostatní zamestnanci ²)	5	1	4	0	0	3	1.7	0	0
Odborní pracovníci ÚS	9	4	5	1	1	8	8.08	0	0
Ostatní pracovníci	1	0	1	0	0	1	1	0	0

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2024 (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 31.12.2024 (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 administratívne, správe a údržbe budov, upratovačiek, vodičov a pod.

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2024)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	II.a.	II.b.
Muži	4	14	3	4	3	12	1
Ženy	3	16	3	1	3	6	9

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	0	0.0	1	1.0	1	1.0	4	4.0	1	1.0	2	1.8	2	2.0	2	2.0	2	1.7
Ženy	1	1.0	2	1.5	1	1.0	3	3.0	3	3.0	2	1.7	0	0.0	1	1.0	1	1.0

A - Prepočet bez zohľadnenia úväzkov zamestnancov

B - Prepočet so zohľadnením úväzkov zamestnancov

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2024

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	50.7	48.8	52.2
Ženy	45.1	46.1	46.5
Spolu	47.5	47.4	49.4

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

2. Vedecko-výskumná činnosť – projekty, výsledky

2.1. Domáce projekty

Tabuľka 2a Domáce projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty VEGA	10	2	-	-	85777	85777	-	4182
2. Projekty APVV	11	6	-	-	608566	552095	-	128280
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	0	-	-	174308	174308	-	-
4. Projekty SASPRO, MoRePro, IMPULZ	0	0	-	-	-	-	-	-
5. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	2	0	-	-	46200	46200	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Domáce projekty podané v roku 2024

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2024	-		
2. Projekty výziev EŠIF podané r. 2024	Bratislava		
	Regióny		

2.2. Medzinárodné projekty**2.2.1. Medzinárodné projekty riešené v roku 2024**

Tabuľka 2c Medzinárodné projekty riešené v roku 2024

ŠTRUKTÚRA PROJEKTOV	Počet		Čerpané financie (€)					
	A	B	A				B	
			Zo zdrojov SAV		Z iných zdrojov		Zo zdrojov SAV	Z iných zdrojov
			Spolu	Pre organizáciu	Spolu	Pre organizáciu		
1. Projekty Horizont 2020 a Horizont Európa	0	5	-	-	-	-	18689	744841
2. Projekty ERA.NET, ESA, JRP	0	3	-	-	-	-	-	32141
3. Projekty COST	0	1	-	-	-	-	2729	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	2	0	-	1667	3880	3880	-	-
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Bilaterálne projekty MAD, Mobility, Open Mobility	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTs z národných zdrojov (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 2024

Tabuľka 2d Počet projektov Horizont Európa v roku 2024

	A	B
Počet podaných projektov Horizont Európa	1 (ERC grant)	2 (JPND/Horizon Europe)

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe A-2.

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

2.3. Výber najvýznamnejších výsledkov vedeckej práce organizácie v roku 2024

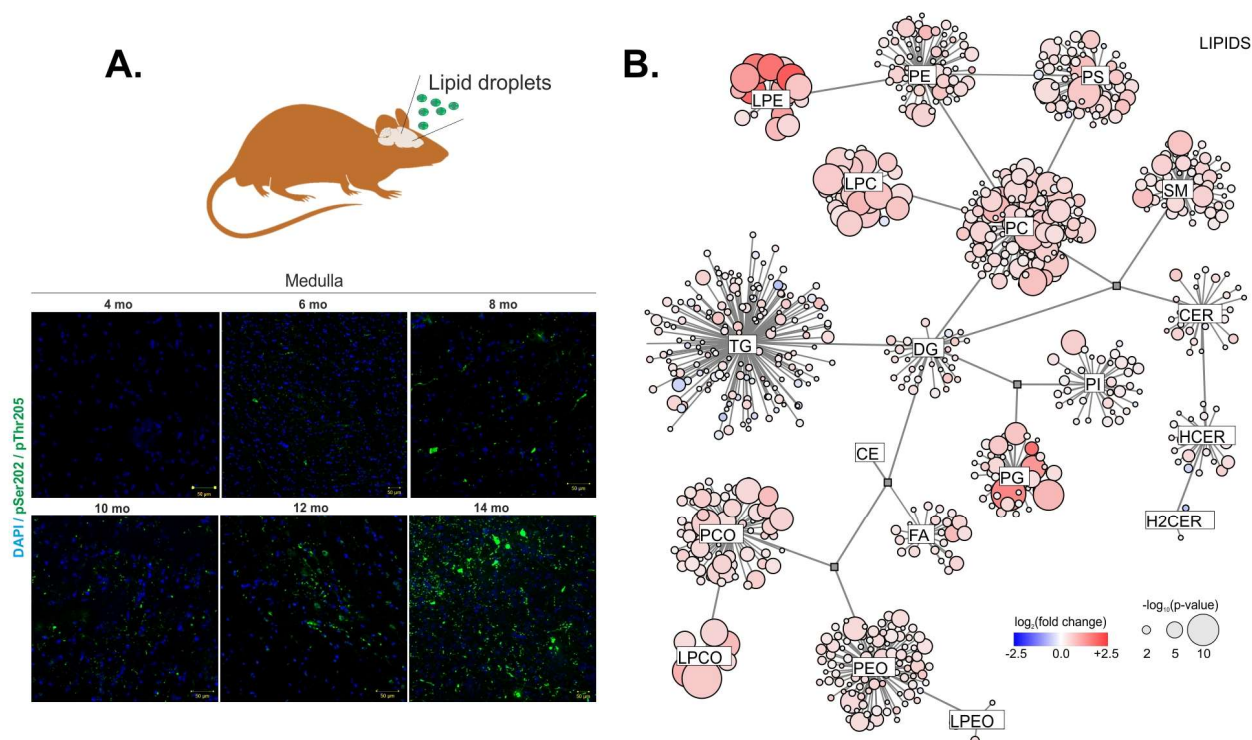
Slúži aj na výber výsledkov do výročnej správy SAV. Každý výsledok má byť charakterizovaný stručným, všeobecne zrozumiteľným popisom – maximálne 1000 znakov + 1 obrázok; bibliografický údaj uvádzajte rovnako ako v zozname publikačnej činnosti, vrátane IF. Nadpis by mal vystihnúť prínos a význam výsledku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

2.3.1. Výsledky na báze základného výskumu

Zmeny v metabolizme lipidov sledujú s progresiou neurofibrilárnej patológie pri tauopatiách. J Neurozápál.

OLEŠOVÁ, Dominika - DOBEŠOVÁ, Dana - MAJEROVÁ, Petra - BRUMAROVÁ, Radana - KVASNIČKA, Aleš - KOUŘIL, Štěpán - STEVENS, Eva - HANES, Jozef - FIALOVÁ, Ľubica - POLČÍK MICHALICOVÁ, Alena - PIEŠŤANSKÝ, Juraj - ŠINSKÝ, Jakub - KANOVSKÝ, Petr - FRIEDECKÝ, David - KOVÁČ, Andrej. **Changes in lipid metabolism track with the progression of neurofibrillary pathology in tauopathies. In Journal of Neuroinflammation**, 2024, vol. 21, art. no. 78, 25 pp. (2023: 9.3 - IF, Q1 - JCR, 2.831 - SJR, Q1 - SJR). ISSN 1742-2094. Dostupné na: <https://doi.org/10.1186/s12974-024-03060-4>

Naša štúdia sa zamerala na úlohu tau proteínu v regulácii lipidového metabolizmu pri tauopatiách. Pomocou transgénneho potkanieho modelu sme identifikovali významné zmeny v lipidovom a metabolickom profile mozgu, likvoru a plazmy, spojené s patologickou formou tau proteínu. Výsledky ukázali, že tau proteín výrazne ovplyvňuje produkciu lipidov, ktoré sa podieľajú na fibrilizácii proteínov, reorganizácii membrán a zápale, a to už v raných štádiách ochorenia, ešte pred vytvorením veľkých agregátov tau. Táto štúdia poskytuje nové poznatky o mechanizmoch neurodegenerácie a ponúka potenciálne biomarkery pre skorú diagnostiku a terapeutické intervencie.



Obr. Zmeny produkcie lipidov v animálnom modeli pre tauopatie. (A) Neurofibrilárna patológia v potkanom transgénnom modeli pre tauopatie. Neurofibrilárna patológia v mozgovom tkanive zvierat bola pozitívna na epitopy tau proteínu charakteristické pre Alzheimerovu chorobu (pSer202/pThr205, zelená), farbenie jadier (DAPI, modrá). **(B)** Zmeny produkcie lipidov v mozgovom tkanive transgénnych potkanov. Metabolomická mapa znázorňuje výsledky štatistickej analýzy pomocou t-testu (veľkosť bublín zobrazuje p-hodnotu, ich sfarbenie veľkosť zmeny).

2.3.2. Výsledky aplikačného typu

Význam biomarkerov mozgovomiešneho moku u neurologických ochorení psov

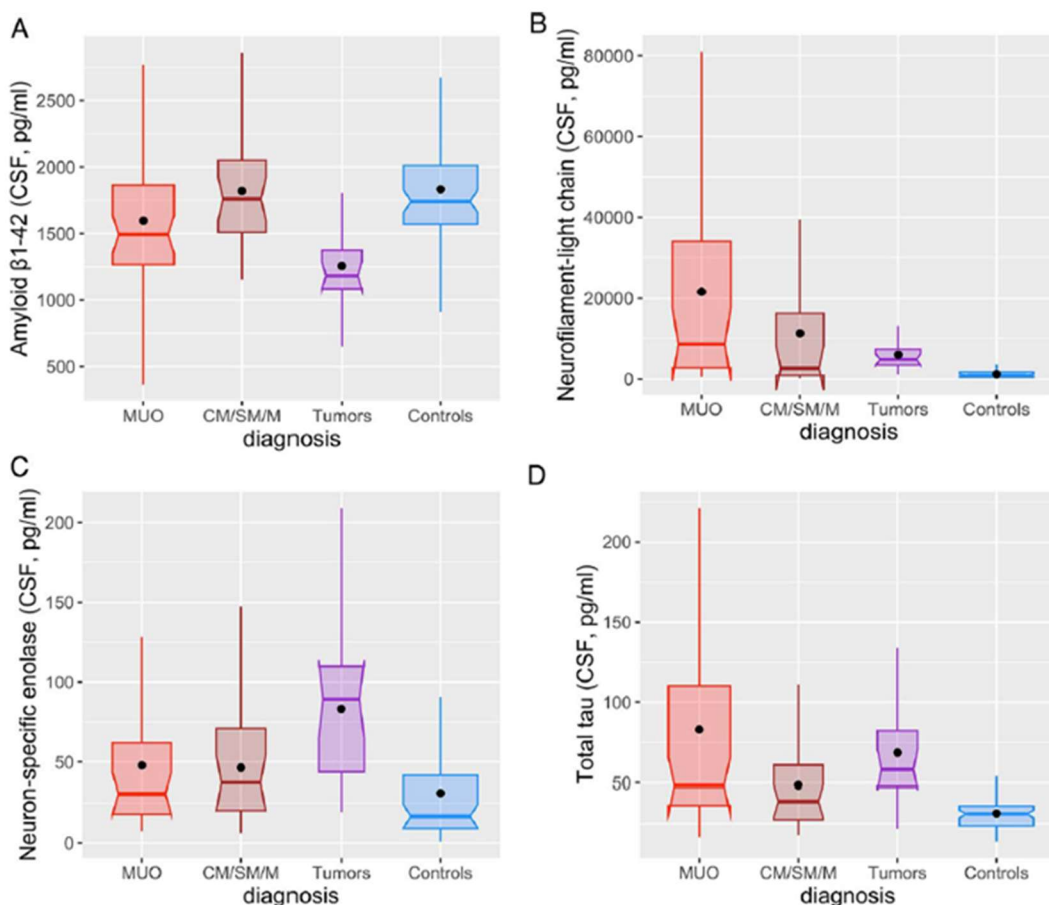
SMOLEK, Tomáš - VINCE KÁŽMÉROVÁ, Zuzana - HANES, Jozef - STEVENS, Eva - PALUS, Viktor - HAJEK, Ivo - KATINA, Stanislav - NOVÁK, Petr - ŽILKA, Norbert. On the utility of cerebrospinal fluid biomarkers in canine neurological disorders. In Scientific Reports, 2024, vol. 14, no., article number: 24129, 12 pp. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-73812-y>

Biomarkery mozgu (Neurofilament (NfL), amyloid- β , celkový tau proteín a enoláza špecifická pre neuróny (NSE)) a ich výrazne zmenené hodnoty poukazujú na široké spektrum neurologických poškodení v mozgu a mieche. V našej štúdií sme sa zamerali na posúdenie týchto biomarkerov ako potenciálne diagnosticky prospešných pre tri významné a bežné neurologické ochorenia psov (Meningoencefalitída neznámeho pôvodu (MUO), mozgové nádory a vybrané neinfekčné myelopátie. Pri každej diagnóze sme analyzovali tieto biomarkery v mozgovomiechovom moku (CSF) odobratom cez kraniálnu punkciu z cisterny magna.

Zvýšené hladiny celkového tau proteínu, NfL a NSE boli pozorované v CSF u psov s diagnózou MUO. U psov s výskytom mozgových nádorov sme zaznamenali v CSF zvýšenie celkového Tau proteínu a NSE, zatiaľ čo amyloid- β bol naopak znížený. Na rozdiel od toho neboli pozorované žiadne zmeny biomarkerov u psov s myelopátiami (Obrázok 1.). Kovarianty ako vek, pohlavie alebo

kastrácia mali minimálny vplyv.

Nami získané poznatky poukazujú, že vybrané biomarkery CSF môžu odrážať molekulárne zmeny súvisiace s procesmi pri diagnózach MUO a nádormi, ale nie s neinfekčnými myelopátiami. Kombinácia NfL, celkového tau proteínu a NSE môžu predstavovať užitočné biomarkery pri diagnostike MUO, pretože odrážajú rovnakú patológiu a nie sú ovplyvnené vekom.



Obrázok. 1. Koncentrácia a porovnanie biomarkerov v CSF psov s diagnózami MUO, myelopátie (CM/SM/M), nádory a kontrolnej skupiny. Amyloid β 1-42 (A), NfL (B), NSE (C), celkový tau proteín(D). Box ploty znázorňujú medián, kvartily, a fúzy zobrazujúcimi kvartilmi $\pm 1,5 \times$ medziquartilný rozptyl (IQR). Bodky označujú aritmetický priemer.

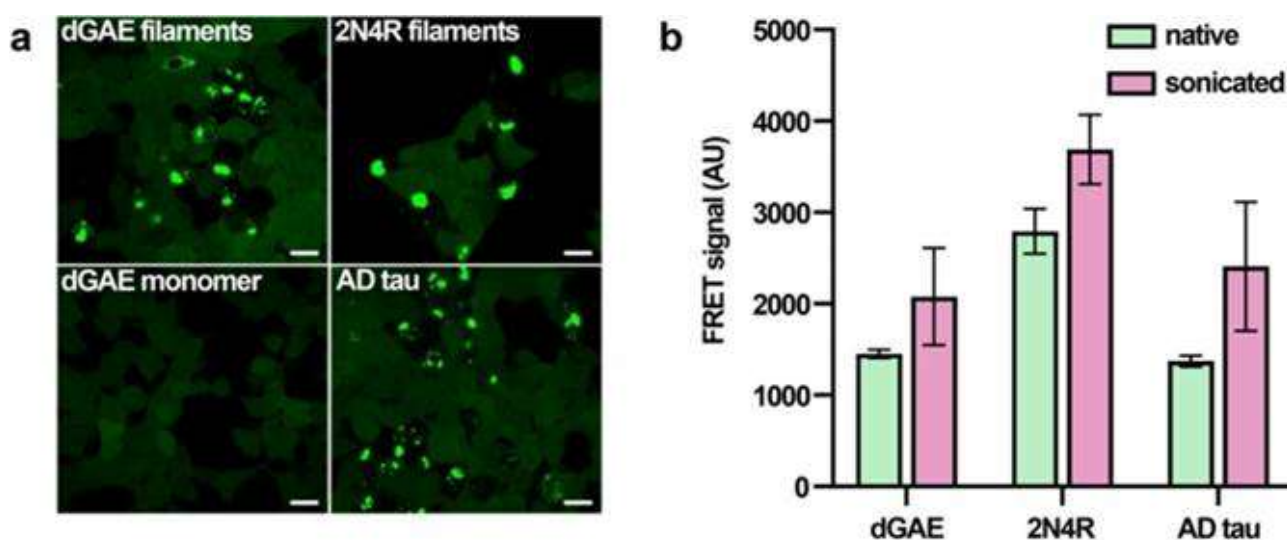
2.3.3. Výsledky na báze medzinárodnej spolupráce

Fragment Tau podporuje tvorbu Tau filamentov podobných chronickej traumatickej encefalopatii.

KITOKA, Kristine - LENDS, Alons - KUCINSKAS, Gytis - BULA, Anna Lina - KRASAUSKAS, Lukas - SMIRNOVAS, Vytautas - ŽILKOVÁ, Monika - KOVÁČECH, Branislav - ŠKRABANA, Rostislav - HRITZ, J. - JAUDZEMS, Kristaps. **dGAE(297–391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments.** *In Angewandte Chemie*, 2024, vol. 63, iss. 49, art. no. e202407821, 7 pp. (2023: 16.1 - IF, Q1 - JCR, 5.3 - SJR, Q1 - SJR). ISSN 1433-7851. Dostupné na: <https://doi.org/10.1002/anie.202407821>

Poznanie odpovede na otázku mechanizmu tvorby vlákien proteínu tau pri Alzheimerovej chorobe a

d'alších ochoreniach zo skupiny neurodegeneračných tauopatií, alebo vlákien synukleínu pri Parkinsonovej chorobe predstavuje kľúčový míľnik pre racionálny vývoj liečiv zmierňujúcich alebo blokujúcich rozvoj týchto zatiaľ takmer neliečiteľných ochorení. Neuroimunologický ústav je od roku 2022 zapojený do medzinárodného konzorcia InterTAU, ktoré rieši H2020-MSCA-RISE projekt číslo 873127. Hlavným cieľom projektu je štúdium štruktúry tau vlákien pripravených v skúmavke alebo izolovaných z tkaniva zvieracích modelov tauopatií, ako aj patologických foriem synukleínu pomocou synergického panelu histologických, biochemických, imunologických, štruktúrno-biologických a bioinformatických prístupov. V konzorciu je okrem NIU SAV zapojených ďalších 12 akademických aj neakademických inštitúcií zo štyroch kontinentov. Do práce na projekte zapájame našu expertízu v proteínovej, bunkovej a neuropatologickej oblasti. Hlavným výsledkom práce konzorcia v roku 2024 bolo úspešné publikovanie zásadne nových poznatkov o tvorbe vlákien kompletného proteínu tau za prítomnosti mikroskopických vláknitých častíc krátkej formy tau, ktorá je konštitučnou zložkou patologického materiálu u ľudských pacientov. Zistili sme, že malý podiel jadier vlákien z krátkej formy tau je schopný účinne indukovať agregáciu majoritného kompletného tau a propagovať tak patologickú premenu. Tento mechanizmus je s vysokou pravdepodobnosťou prítomný v patologickej kaskáde rozvoja ochorenia u ľudí. Ďalším dôležitým poznatkom bolo zistenie, že takto získané vlákna sú schopné šíriť patológiu v bunkovom modeli a majú štruktúru do veľkej miery zhodnú s konformáciou tau vlákien izolovaných z mozgu pacientov zosnulých s diagnózou chronickej traumatickej encefalopatie (CTE), čo je neurodegeneračné ochorenie asociované s traumatickými poraneniami hlavy. Naš protokol tvorby vlákien by tak mohol byť cenným nástrojom pre vývoj špecifickej terapie pre CTE a iné tauopatie.



Obr. Vlákna pripravené z rekombinantných tau proteínov dGAE a 2N4R majú v bunkovom modeli potenciál propagovať patológiu, podobne ako vlákna izolované z mozgu pacientov s Alzheimerovou chorobou (AD). **a** – mikroskopický fluorescenčný signál agregovaných tau proteínov v HEK agregácie-citlivej bunkovej línii (zelená farba), po pôsobení jednotlivých tau foriem, mierka predstavuje 20 mikrometrov. **b** – miera agregáčného potenciálu jednotlivých vláknitých foriem tau proteínu, kvantifikovaná FRET signálom pri prietokovej cytometrii.

2.4. Publikačná činnosť (zoznam je uvedený v prílohe A-3)

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2024/ doplňky z r. 2023
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)	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA)	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD)	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC)	0 / 0
7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD)	0 / 0
8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC)	0 / 0
9. Vedecké práce registrované v Current Contents Connect (ADCA, ADCB, ADDA, ADDB)	26 / 0
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	9 / 0
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	2 / 0
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	1 / 0
13. Vedecké práce v domácich recenzovaných zborníkoch (AEDA)	1 / 0
14. Vedecké práce v zahraničných recenzovaných zborníkoch (AECA)	0 / 0
15. Publikované príspevky na domácich vedeckých konferenciách (AFB, AFD)	6 / 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	0
19. Zostavovateľské práce knižného charakteru (FAI)	0 / 0
20. Preklady vedeckých a odborných textov (EAJ)	0 / 0
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	0 / 0
22. Recenzie v časopisoch a zborníkoch (EDI)	0 / 0

Evidujú 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. 2023 (zdroj JCR) <i>Počet článkov / doplnky</i>	28 / 0	5 / 0	1 / 0	1 / 0	35 / 0
Podľa SJR z r. 2023 (zdroj Scimago) <i>Počet článkov / doplnky</i>	28 / 0	6 / 0	1 / 0	0 / 0	35 / 0

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2023/ doplnky z r. 2022
Citácie vo WOS (1.1, 2.1)	1241 / 33
Citácie v SCOPUS (1.2, 2.2)	561 / 41
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)	58 / 2
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	37
Prednášky a vývesky na národných vedeckých podujatiach	11

2.6. Vyžiadané prednášky

Ak boli príspevky publikované, sú súčasťou prílohy A-3, kategória (AFC, AFD, AFE, AFF, AFG, AFH)

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

KRUTIKA, K. – MAJEROVA, P. – JAMES, K. – VEGH, J. – OLESOVA, D. – KOVAC, A. Development of blood-cerebrospinal fluid barrier model expressing pharmaceutically important transporters. In 6th Mini-Symposium on The Blood-Brain Barrier, from Basic to Clinical Research, March 19 – 20th, 2024, Smolenice Castle

BHIDE, M. – Crossing of the pathogens and drugs across the blood-brain barrier: A proof of concept study. In 6th Mini-Symposium on The Blood-Brain Barrier, from Basic to Clinical Research, March 19 – 20th, 2024, Smolenice Castle

OLESOVA, D. – DOBESOVA, D. - , MAJEROVA, P. – BRUMAROVA, R. – FRIEDECKY, D. – KOVAC, A. Unraveling tau pathology's impact on lipid metabolism: evidence from transgenic rats. In 6th Mini-Symposium on The Blood-Brain Barrier, from Basic to Clinical Research, March 19 – 20th, 2024, Smolenice Castle

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

MESAROSOVA, B. - , FILIPCIK, P. - , CENTE, M. Physiological response to traumatic brain injury and repetitive head impacts in contact sports. In: Úrazy hlavy a krku – reálny nepriateľ v športových hrách, December 11th, 2024, Bratislava

MESAROSOVÁ, B. - FILIPČÍK, P. - CENTE, M. Male versus Females. Different Consequences of Concussion. In Úrazy hlavy a krku – reálny nepriateľ v športových hrách, December 11th, 2024, Bratislava

HORVATH, M. - DURGALA, A. - FLIPCIK, P. Behavioural changes induced by subconcussive head impacts in experimental model, In Úrazy hlavy a krku – reálny nepriateľ v športových hrách, december 11th, 2024, Bratislava

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2024

2.7.1. Vynálezy, na ktoré bol v roku 2024 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2024

a) na Slovensku

Názov vynálezu: **Nový receptorom sprostredkovaný systém pre transport liečiv do mozgu**

Číslo prihlášky: **106-2024**

Dátum priority: 23.12.2024

Majiteľ / spolumajiteľ: NIU SAV

Pôvodcovia vynálezu: Hanes Jozef, Majerová Petra, Kováč Andrej

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 2024

b) udelené v roku 2024

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 2024 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
Filipčík Peter	IGA UVLF „Early Stage Grants pre Doktorandov“	1
Kontseková Eva	VEGA	1
Kováčech Branislav	Národný štipendijný program SR, SAIA n.o.	33
	Postdoktogrant	5
Škrabana Rostislav	VEGA	1
Žilka Norbert	APVV	10

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
Cehlár Ondrej	0	0	10	0	0	0	0
Hromádka Tomáš	0	0	2	0	0	0	0
Kováč Andrej	0	0	5	0	0	0	0
Piešťanský Juraj	0	0	19	0	0	0	0
Spolu	0	0	36	0	0	0	0

2.11. Iné informácie k vedecko-výskumnej činnosti.

Neuroimunologický ústav SAV, v. v. i. (NIU SAV) je lídrom v oblasti výskumu ľudských ochorení mozgu a miechy na Slovensku. Okrem Alzheimerovej choroby sa venuje výskumu Parkinsonovej choroby, traumatických poškodení mozgu a miechy, amyotrofickéj laterálnej skleróze, roztrúsenej skleróze a rozmanitým ochoreniam mozgu psov a mačiek.

Je súčasťou medzinárodnej siete špičkových vedeckých inštitúcií, ktoré sa venujú riešeniu závažných ochorení ľudského mozgu. Participuje na desiatkach domácich a medzinárodných projektoch, ktoré sa venujú základnému, ale aj aplikovanému výskumu.

NIU SAV je od roku 1997 Národným vedeckým centrom pre spoluprácu Slovenskej republiky s Medzinárodným centrom pre genetické inžinierstvo a biotechnológie pri OSN (ICGEB).

NIU SAV odborne zastrešuje a významne sa podieľa na činnosti troch vedeckých spoločností, ktoré sú NIU SAV zriadené:

1. SLOVENSKÁ ALZHEIMEROVA SPOLOČNOSŤ (SAS - predsedom je doc. MVDr. Norbert Žilka, DrSc.). SAS vznikla v roku 1998 ako občianske združenie vedeckých a odborných pracovníkov, opatrovateľov, ako aj príbuzných pacientov postihnutých Alzheimerovou chorobou. Jej cieľom je podieľať sa na výskume príčin tohto ochorenia, aplikácii najnovších vedeckých poznatkov do lekárskej starostlivosti a uľahčenie starostlivosti v domácom prostredí. Slovenská Alzheimerova spoločnosť zastupuje Slovensko v Medzinárodnej spoločnosti pre Alzheimerovu chorobu (Alzheimer Disease International - ADI) a v Alzheimer Europe (AE).

2. SLOVENSKÁ SPOLOČNOSŤ PRE NEUROVEDY (SSN – predsedom je doc. RNDr. Peter Filipčík, CSc.). Úlohou Slovenskej spoločnosti pre neurovedy je podieľať sa na rozvoji a zvyšovaní úrovne odboru neurovied v Slovenskej republike a na koncepcnej a prognostickej činnosti, ako aj na propagácii a realizácii výsledkov vedecko – výskumnej činnosti v praxi. Slovenská spoločnosť pre neurovedy je členom FENS - Federation of European Neuroscience Societies.

3. SLOVENSKÁ IMUNOLOGICKÁ SPOLOČNOSŤ (SIMS – predsedníčkou je prof. RNDr. Eva Kontseková, DrSc.). Medzi hlavné náplne činnosti SIMS patrí propagácia a podpora rozvoja imunológie, ako jedného z najprudšie sa rozvíjajúcich vedných odborov vo svetovom aj domácom kontexte. SIMS je členom Európskej federácie imunologických spoločností – EFIS (European Federation of Immunological Societies) a Medzinárodnej únie imunologických spoločností – IUIS (International Union of Immunological Societies).

NIU SAV je spoluzakladateľom Centra MEMORY, ktoré je prvým a zatiaľ stále jediným preventívnym, diagnostickým, aktivačným, vzdelávacím centrom zameraným na ľudí s poruchami pamäti a pacientov trpiacich demenciou. Centrum Memory bolo uznané Ministerstvom zdravotníctva SR ako pracovisko s celonárodnou pôsobnosťou. NIU SAV v spolupráci s Centrom Memory realizuje harmonizáciu diagnostických postupov pre ľudské demencie.

NIU SAV v spolupráci s Univerzitou veterinárskeho lekárstva a farmácie v Košiciach zriadili detašované pracovisko “Laboratórium biomedicínskej mikrobiológie a imunológie” (LBMI), ktoré sa venuje štúdiu závažných infekčných ochorení prenosných zo zvierat na ľudí - zoonózy. NIU SAV sa podieľa aj na doktorandskom štúdiu v oblasti imunológie a neurovied. LBMI sa podieľalo na vývoji terapeutických nano-protilátok zameraných proti SARS-CoV-2.

V roku 2023 sa stal doc. MVDr. Norbert Žilka, DrSc členom poradného orgánu Výskumnej a inovačnej autority Úradu vlády SR (VAIA), zodpovedný za slovenskú biobankovú sieť. Zároveň sa podieľal na príprave projektovej koncepcie medicínskeho výskumu a návrhoch pre výzvy a národné projekty.

NIU SAV naďalej patrí medzi naviac pozitívne medializované inštitúcie, pracovníci ústavu pravidelne vystupujú v médiách a vyjadrujú sa k odborným témam v oblasti biomedicíny. Publikujú v novinách a časopisoch vedecko-populárne články (Aktuality.sk, Týždeň.sk). Zároveň sa podieľajú na popularizačných aktivitách, šíria osvetu a pracujú s mladými talentami na stredných školách a univerzitách.

3. Medzinárodná vedecká spolupráca

3.1. Medzinárodné vedecké podujatia

3.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2024 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

6th Mini-Symposium On The Blood-Brain Barrier From Basic To Clinical Research, Smolenice, 50 účastníkov, 19.03.-20.03.2024

Medzinárodná konferencia 6th Mini-Symposium on The Blood Brain Barrier From Basic To Clinical Research bola usporiadaná Neuroimunologickým ústavom na Smolenickom zámku. Konferencia je každoročne organizovaná ako výsledok dlhoročnej spolupráce medzi Neuroimunologickým ústavom SAV, Univerzitou v Nagasaki a Biologickým vedeckým centrom v Segedíne. Konferencia je zameraná predovšetkým na výskum mozgovo-cievnej bariéry a neurozápalu v neurodegeneratívnych a infekčných ochoreniach. Súčasťou programu boli i prednášky venujúce sa problematike mikroplastov v ochoreniach mozgu. Na konferencii svoje výsledky formou prednášky, či výveskov prezentovalo viac ako 24 zahraničných výskumníkov z Univerzity Washington, USA; Trinity College z Dublinu; Univerzity Paris Saclay; Biologického vedeckého centra zo Segedínu; Lekárskej Univerzity vo Viedni; Univerzity Fukuoka z Japonska.

FEPS SECF 2024, Granada, Španielsko

V septembri 2024 organizovalo The Federation of European Physiological Societies (FEPS) medzinárodnú konferenciu, na ktorej Prof. Eva Syková viedla sympóziu "Extracellular matrix in health and disease" a bola zodpovedná za výber rečníkov.

Sympóziu

Extracellular matrix in health and disease.

Chair: Prof. Eva Sykova – Institute of Neuroimmunology, Slovak Academy of Sciences Bratislava (Slovakia)

Prof. Eva Sykova – Institute of Neuroimmunology, Slovak Academy of Sciences Bratislava

Prof. Dr. Juan Nacher – University of Valencia

Dr. Federico N Soria – Achucarro Basque Center for Neuroscience

Dr. Carla Cangalaya – German Center for Neurodegenerative Diseases

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2025 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

Advances in Experimental Neurobiology 2025, Smolenice castle, 20.10.-23.10.2025, (Peter Filipčík, +421 2 5478 8100/455, peter.filipcik@savba.sk)

3.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 3a Programové a organizačné výbory medzinárodných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Hornák Peter	0	1	0
Kováč Andrej	1	0	0

Kováč Pavol	0	1	0
Majerová Petra	1	0	0
Tóthová Korina	0	1	0
Žilka Norbert	1	0	0
Spolu	3	3	0

3.2. Členstvo a funkcie v medzinárodných orgánoch

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

prof. MVDr. Mangesh Ramesh Bhide, PhD.

Association for Public Health Veterinarian, INDIA. (M.A.P.H.V.) (funkcia: člen)
 Bombay Veterinary College Alumni Association, INDIA (funkcia: člen)
 International Centre for Genetic Engineering and Biotechnology (ICGEB) (funkcia: Guvernér SR)

Ing. Ondrej Cehlár, PhD.

Česká společnost pro strukturní biologii (funkcia: člen)

prof. MVDr. Daša Čížková, DrSc.

Federation of European Neuroscience Societies (FENS) (funkcia: člen výboru)
 IBRO - International Brain Organization (funkcia: člen výboru)
 TRANS EUROPEAN STEM CELL THERAPY CONSORTIUM (TESCT) (funkcia: člen výboru)

MUDr. RNDr. Dominika Fričová, PhD.

Federation of European Neuroscience Societies - FENS (funkcia: člen)

MUDr. Mgr. Tomáš Hromádka, PhD.

European Brain and Behaviour Society (funkcia: člen)

PharmDr. Andrej Kováč, PhD.

International Society of Pteridinology (funkcia: člen)

Mgr. Branislav Kováčech, PhD.

European Society for Neurochemistry (funkcia: člen)
 International Society for Neurochemistry (funkcia: člen)

Mgr. Petra Majerová, PhD.

Česká společnost pro hmotnostní spektrometrii (funkcia: člen)
 International Society of Pteridinology (funkcia: člen)

doc. PharmDr. Juraj Piešťanský, PhD.

Česká společnost pro hmotnostní spektrometriu (funkcia: člen)

Mgr. Adam Polák

Czech Society for Structural Biology (funkcia: člen)

MVDr. Mgr. Tomáš Smolek, PhD.

Česká mikrobiomová společnost ČLS JEP (funkcia: člen)

Česko-slovenská společnost pro vědu o laboratorních zvířatech (funkcia: člen)

prof. MUDr. Eva Syková, DrSc.

American Society for Neural Transplantation and Repair (funkcia: člen)

American Society for Neuroscience (funkcia: člen)

Česká lékařská společnost J.E. Purkyně (funkcia: člen)

Česká Manažerská Asociace (funkcia: člen výboru)

Česká společnost pro Neurovědy (funkcia: zakladající člen)

Dana Alliance for Brain Initiatives (funkcia: člen exekutívneho výboru)

European network "Function of Glial Cells" (funkcia: zástupca ČR)

Federation of European Physiological Societies (funkcia: člen)

International society for cell and gene therapy (ISCT) (funkcia: člen)

The European Dana Alliance for the Brain (funkcia: člen exekutívneho výboru)

RNDr. Rostislav Škrabana, PhD.

Česká společnost pro strukturní biologii (funkcia: člen)

M.Sc. Miraj Ud Din Momad

European Society of Neurochemistry (ESN) (funkcia: člen)

Federation of european neuroscience societies (FENS) (funkcia: člen)

International Society of Neurochemistry (ISN) (funkcia: člen)

doc. MVDr. Norbert Žilka, DrSc.

Cajal Club (funkcia: člen)

European Society for Neurochemistry (funkcia: člen)

RNDr. Monika Žilková, PhD.

European Society for Neurochemistry (funkcia: člen)

3.3. Účast' expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

Tabuľka 3b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Škrabana Rostislav	Competition – the best PhD thesis in the field of structural biology 2023	11

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

1. Non-globular proteins in the era of Machine Learning (Program COST)

ML4NGP konzorcium umožňuje pan-európsku spoluprácu odborníkov teoretických a experimentálnych disciplín, najmä z oblastí štruktúrnej biológie, genetiky, strojového učenia, bioinformatiky, zameraných na štúdium vlastností a funkcie prirodzene neusporiadaných a iných obecné ne-globulárnych proteínov. Leitmotívom práce konzorcia je prenos informácií medzi experimentálnou a výpočtovou sférou, v ktorom experimentálne výsledky umožňujú efektívny vývoj nástrojov umelej inteligencie a slúžia na verifikáciu jej výstupov.

Výstupy za rok 2024:

V rámci projektu sa dvaja PhD študenti ústavu zúčastnili počítačového kurzu ML4NGP-REFRACT Training School on computational tools to study Non-globular Proteins v španielskej Carmone. Traja vedeckí pracovníci ústavu, dvaja PhD študenti a dvaja argentínski stážisti sa zúčastnili konferencie 2nd ML4NGP meeting on Machine Learning and Non-globular Proteins v gréckych Thessalonikách. Ďalej pokračujeme v spolupráci so skupinu Prof. V. Spiwoka z VŠCHT Praha v oblasti simulácií molekulovej dynamiky neusporiadaných proteínov.

2. Konzorcium InterTau, Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE), zapojené do programu Horizont 2020

Integrative structural biology of pathological tau protein, an appealing therapeutic target for Alzheimer's disease modifying drugs (*Integrative structural biology of pathological tau protein, an appealing therapeutic target for Alzheimer's disease modifying drugs*)

V rámci programu EU Horizont 2020 sa Neuroimunologický ústav podieľa na aktivitách konzorcia InterTAU združujúceho akademické a biotechnologické pracoviská Európy, Severnej a Južnej Ameriky a Ázie (Masarykova univerzita (ČR), Biovendor (ČR), Latvian Institute of Organic Synthesis (Lotyšsko), Royal College of Surgeons in Ireland (Írsko), Datamedrix (Rakúsko), University of Pittsburgh (USA), Oregon State University (USA), University Health Network (Kanada), National University of Cuyo (Argentína), Universitas Sanata Dharma, (Indonézia)).

Multidisciplinárny výskum konzorcia InterTau je zameraný na detailnú štruktúrnu a biofyzikálnu charakterizáciu proteínu tau a alfa-synukleínu v rôznych formách (monomérnych, oligomérnych, fibrilárnych) dôležitých pre patológiu Alzheimerovej choroby, iných tauopatií a Parkinsonovej choroby.

Výstupy za rok 2024:

V roku 2024 sa počet stážistov InterTAU na našom ústave zvýšil na jedenásť argentínskych vedcov, z toho štyria na pozícii samostatného vedeckého pracovníka a siedmi PhD študenti, v celkovej dobe 46 osobomesiacov (v roku 2024); päť pracovníkov a študentov Neuroimunologického ústavu SAV strávilo v Argentíne spolu viac ako 14 mesiacov v priebehu roka, dvaja vedci boli na mesačných stážach v Indonézii a traja v Českej republike. Spolu sme zrealizovali 19 osobomesiacov pobytov na zahraničných pracoviskách. Finalizovali sme šesť spoločných vedeckých publikácií, štyri z nich boli uverejnené v medzinárodných recenzovaných časopisoch, jedna je v recenznom konaní a jedna v tlači.

Hlavným vedeckým prínosom pre NIU SAV ostáva internacionalizácia výskumného prostredia, rozvoj nových tém a získavanie odborných skúseností. Mimoriadne si ceníme fakt, že sme mohli argentínskym partnerom v konzorciu pomôcť zaviesť technológiu prípravy monoklonálnych protilátok na ich domovskom pracovisku. Považujeme to za čiastočné splatenie dlhu voči významnému argentínskemu vedcovi pôsobiacemu v Spojenom Kráľovstve, Césarovi Milsteinovi, laureátovi Nobelovej ceny za spomínanú technológiu, ktorý stál pri kolíske nášho ústavu a podporoval ho v období jeho zrodu v deväťdesiatych rokoch minulého storočia.

Nadviazanú spoluprácu plánujeme zúročiť v ďalšom spoločnom projekte, ktorý plánujeme pripraviť v roku 2025.

3. Projekt A premotor disease signature for ALS - Rukopis pre-motorického štádia amyotrofnej laterálnej sklerózy (JPND/Horizon Europe)

Projekt PREMEDI-ALS je nový projekt pod hlavičkou JPND/Horizon Europe, ktorý sa venuje skorej diagnostike pacientov s predklinickým štádiom amyotrofnej laterálnej sklerózy. V spolupráci s Jesseniovo lekárskou fakultou UK v Martine budujeme kohortu pacientov s ALS.

Cieľom projektu je identifikovať rodiny s familiárnou formou ALS a osloviť jedincov so špecifickými mutáciami bez klinických príznakov ochorenia. V rámci konzorcia sa bude analyzovať proteóm a metabolóm v krvi, mozgovo-miechovej tekutine a v slzách. Budeme hľadať špecifický molekulový rukopis, ktorý nám umožní diagnostikovať pacientov v predklinických štádiách. Súčasťou konzorcia sú prestížne svetové pracoviská z Nemecka, Izraela, Poľska, Turecka a Spojených Štátov.

Výstupy za rok 2024:

Hlavným cieľom v tomto roku bolo pokračovať v testovaní a validovaní postupov na spracovanie biologických vzoriek (plazma, CSF a moč) a jednotlivých analytických metód na meranie koncentrácie lipidov a iných metabolitov. Namerané výsledky boli následne štatisticky spracované a bola vykonaná bioinformatická analýza (Department of Neurology – Lingor Lab Rechts der Isar Hospital of the Technical University Munich). V nasledujúcom roku sa budú pomocou nami validovaných metód analyzovať vzorky z PremodiALS kohorty pacientov.

4. Alzheimer's Disease Diagnostics Innovation and Translation to Clinical Practice in Central Europe

Hlavným cieľom projektu ADDIT-CE je vytvoriť dva prepojené ekosystémy, jeden v Českej republike (Brno) a druhý v regióne Bratislava, ktoré pozostávajú zo štyroch inovačných aktérov na každej strane: Masarykova univerzita, Slovenská akadémia vied, súkromné biotechnologické firmy BioVendor, Geneton a MultiplexDX. Spoločenský aktéri sú zastúpení organizáciami ako Slovenská Alzheimerova spoločnosť, Česká Alzheimerova spoločnosť, Centrum Memory a Česká štúdia starnutia mozgu. Vládne inštitúcie reprezentuje Ministerstvo zdravotníctva Slovenskej republiky a Jihočeské inovačné centrum (JIC), verejne financovaná agentúra podporujúca podnikanie na južnej Morave. Cieľom ekosystémov je vytvoriť spoločnú cezhraničnú stratégiu výskumu a inovácií, ktorá zjednotí aktivity zamerané na nové diagnostické metódy Alzheimerovej choroby (AD) a ich aplikácie. NIU SAV sa podieľalo hneď na niekoľkých úlohách.

Výstupy za rok 2024:

V roku 2024 sme po prvý krát využili nový krvný biomarker ptau217 na testovanie ľudí v riziku vzniku demencie, v rámci skríningu dobrovoľníkov v klinickom skúšaní zameranom na klinické skúšanie nefarmakologických prístupov na oddialenie vzniku demencie. Vyšetrených bolo takmer 300 pacientov a približne 30% dobrovoľníkov spĺňalo kritéria pre predklinickú formu Alzheimerovej choroby. V rámci vývoja diagnostického testu sme navrhli tau peptidy, ktoré sme použili na imunizáciu zvierat. Začali sme budovať sieť klinických pracovísk zameraných na diagnostiku demencií, harmonizovali sme jednotlivé klinické postupy a získali schválenie od 9 etických komisií v siedmych slovenských mestách, ktoré je potrebné na výskum biomarkerov. Súčasťou projektu bola aj príprava reportu „D1.2 Preliminary Joint R&I Strategy“, ktorý mapuje súčasný stav výskumu biomarkerov pre Alzheimerovu chorobu a popisuje aktuálny stav diagnostiky demencie na Slovensku a pripravenosť na príchod nových liekov modifikujúcich ochorenie. Report vytvára podklad pre vzájomnú spoluprácu klinických odborníkov v Českej a Slovenskej republike.

5. Cielenie neurodegenerácie indukovanej západnou diétou (Targeting Western Diet-Induced Neurodegeneration)

Cieľom tohto projektu je objasniť úlohu zvýšenia endogénneho agonistu TLR4, sfingomyelínu d18:1/14:0 (S14), sprostredkovaného západnou stravou, pri uľahčovaní propagácie tau patológie. Projekt prináša nový pohľad na vplyv diety na neurodegeneračné procesy v mozgu indukované metazápalom. Konzorcium je vedené medzinárodne akceptovanou osobnosťou v oblasti imunológie Dr. Eike Latzom z University Hospital Bonn. Spoluriešiteľmi sú Wilson Abdo, Radboud University

Medical Center, Florent Ginhoux, Gustave Roussy Hospital, Roisin McManus, Deutsches Zentrum für Neurodegenerative Erkrankungen a Musa Mhlanga, Radboud University Medical Center.

Výstupy za rok 2024:

V súlade s nami navrhovaným pracovným balíkom sme v roku 2024 úspešne zabezpečili schválenie našich pokusov na zvieratách od Štátnej veterinárnej správy a správy liečiv. V súčasnosti zväčšujeme kohorty zvierat, aby sme zabezpečili dostatočnú veľkosť vzorky na rozsiahle štatistické analýzy. Aby sme rekapitulovali patológiu Tau, izolovali sme a dôsledne charakterizovali nerozpustné Tau agregáty pochádzajúce z Alzheimerovej choroby. Analýza pomocou Western blotu potvrdila charakteristický vzor, elektrónová mikroskopia odhalila prítomnosť párových špirálových vlákien (PHF) a priamych vlákien (SF) a biosenzorové testy potvrdili účinnosť pri šírení agregátov Tau. Predbežné štúdie in vivo ďalej preukázali jeho schopnosť patologického šírenia. V rámci prípravy na následné experimentálne fázy máme štandardizované protokoly na analýzu vzoriek, aby sme zabezpečili metodologickú konzistentnosť a spoľahlivosť. Podávanie západnej stravy na zvieracích modeloch sa má začať v priebehu niekoľkých nasledujúcich mesiacov.

6. Krátkodobý a dlhodobý mechanizmus multimodálnej intervencie pre prevenciu demencie
(*Shorter- and longer-term mechanisms of multimodal interventions to prevent dementia*)

Projekt Multi-Memo je zameraný na pochopenie molekulových mechanizmov terapeutického účinku nefarmakologických prístupov (fyzická aktivita, kognitívne tréningy, diéta etc.) u jedincov s rizikom vzniku demencie, u ľudí s miernymi kognitívnymi poruchami ako aj u pacientov s Alzheimerovou chorobou. Projekt má k dispozícii veľké množstvo biologických vzoriek z ukončených klinických skúšaní (FINGER, MET-FINGER, MINDAD Mini, LipiDiDiet), ktoré sa budú využívať na hľadanie mechanizmu účinku na molekulovej úrovni. NIU SAV sa na projekte podieľa vďaka unikátnemu animálnemu modelu, ktorý dokáže rekapitulovať neurofibrilárnu patológiu charakteristickú pre Alzheimerovu chorobu.

Výstupy za rok 2024:

Projekt v roku 2024 pokračoval podľa stanovených cieľov. Hneď v úvode roku sa nám podarilo vyhodnotiť experimenty zamerané na skúmanie vplyvu chronického zápalu u R3m4 myši vyvolaného dlhodobým opakovaným periférnym podávaním LPS na neurofibrilárnu tau patológiu a neurozápal v mozgu. Výsledky ukázali, že TLR4 sprostredkovaný chronický zápal mal výrazný vplyv na aktiváciu mikroglií a zmenu morfológických parametrov ako sú veľkosť tela mikroglií, rozvetvenie, hrúbku výbežkov a ich rádius. Naopak výrazný vplyv na tvorbu neurofibrilárnej tau patológie a hyperfosforyláciu sme nezaznamenali v porovnaní s kontrolami.

Ďalej nás zaujímal vplyv obohateného prostredia a diéty bohatej na prospešné tuky a vitamíny na šírenie tau patológie. V priebehu roka sme dostali pozitívnu odpoveď a povolenie zo Štátnej Veterinárnej a Potravinovej Správy SR (ŠVPSSR). Akonáhle sme dostali povolenie na experimenty, tak sme vytvorili podmienky pre obohatené prostredie, ktoré obsahovalo hračky, väčší priestor a zvýšenú socializáciu 20 jedincov pokope počas dňa a noci (od 15:00-7:00 hod) a potom sme ich premiestnili do klasických klieťok (od 7:00-15:00 hod). Navyše 1 skupina s obohateným prostredím dostávala aj špeciálne obohatené krmivo. Tretia skupina bola bez intervencie obohateného prostredia a krmiva. Všetkým 3 skupinám pred začiatkom intervencie boli podané intracerebrálne PHF izoláty z ľudských mozgov na indukciu tau patológie a šírenia v hipokampe. Momentálne sme zozbierali vzorky a pracujeme na vyhodnocovaní a analýzach, ktoré budú pokračovať aj v ďalšom roku.

Prehľad údajov o medzinárodnej mobilite pracovníkov organizácie je uvedený v Prílohe A-5.

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

4. Aplikácia výsledkov výskumu v praxi

4.1. Výsledky výskumu organizácie aplikované v technologickej a všeobecnej spoločenskej praxi

4.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

4.3. Iné formy aplikácie výsledkov výskumu a využitia odbornosti

Centrum Memory n.o. slúži ako preventívne, diagnostické, aktivačné a vzdelávacie centrum, so zameraním na ľudí s poruchami pamäti a pacientov trpiacich Alzheimerovou chorobou. Od 1. januára 2006 bolo Centrum Memory vyhlásené Slovenskou akadémiu vied za súčasť Centra Excelentnosti pre Alzheimerovu chorobu a pridružené neurodegeneračné ochorenia, čím sa zaradilo medzi prestížne pracoviská podporujúce vedu a výskum na Slovensku i v zahraničí. Centrum Memory poskytuje služby aj pre záujemcov o udržiavanie si dobrej pamäti a vitality v každom veku, rodinných príslušníkov alebo blízke osoby, ktoré žijú s chorými v domácnosti alebo sa o nich denne starajú, zdravotníckych a sociálnych pracovníkov profesionálne zainteresovaných na riešení problémov súvisiacich s demenciou. Neuroimunologický ústav ako pracovisko, ktoré sa venuje výskumu neurodegeneračných ochorení pravidelne monitoruje najnovšie výsledky a postupne ich zavádza do každodenného života v Centre Memory. V súčasnosti má Centrum k dispozícii Psychiatrickú, Neurologickú a Psychologickú ambulanciu. Ročne vyšetří niekoľko stoviek pacientov s pamäťovými problémami a demenciou. V diagnostike využíva moderné nástroje, vďaka čomu dokáže zvýšiť presnosť záverečnej diagnózy. V Centre vznikla aj prvá rozsiahla kohorta pacientov s MCI a Alzheimerovou demenciou, sumárne výsledky budú publikované v roku 2024. Pracovníci Centra sa podieľajú na adaptácii nových psychologických testov do klinickej praxe. Memory Centrum je partnerom nového medzinárodného projektu ADDIT-CE, kde má na starosti skríning vhodných kandidátov pre klinické skúšanie zamerané na testovanie nefarmakologických prístupov (kognitívne tréningy, fyzická aktivita, diéty etc.). Memory Centrum v spolupráci s Neuroimunologickým ústavom pripravuje koncept Národného programu proti demencii.

Neuroimunologický ústav v spolupráci s I. Neurologickou klinikou UMB, LF UK v Bratislave a s Neurologickou klinikou Univerzitnej nemocnice L. Pasteura Košice niekoľko rokov testovalo využitie krvného testu na vyšetrenie ľahkého reťazca neurofilamentu v klinickej praxi. Vyšetřili sme takmer 1200 vzoriek od pacientov s roztrúsenou sklerózou a kontrolných jedincov. Spoločne sme publikovali niekoľko odborných článkov (Fedicova et al., 2023, Medicina; Szilasiova et al., 2021, Eur Neurol; Filipi et al., 2020, Neuro Endocrinol Lett), ktoré ukázali, že krvný neurofilament dokáže monitorovať neurodegeneráciu a neurozápal v mozgu a je vhodným biomarkerom pre sledovanie terapeutickú účinnosti liekov modifikujúcich ochorenie. Na základe našich výsledkov začali v roku 2023 dve poisťovne preplácať vyšetřenie pre pacientov, v roku 2024 sa v obmedzenej miere pridala aj tretia poisťovňa. Neurofilament je prvý krvný biomarker pre ochorenia CNS, ktorý bol etablovaný v Strednej Európe ako štandardný nástroj pre sledovanie terapeutickú účinnosti. Tento výnimočný úspech bol možný iba vďaka tomu, že náš ústav disponoval odborným tímom, ktorý je vedený Dr. Jozefom Hanesom. Jozef má dlhoročné skúsenosti s modernými ultrasenzitívnymi technológiami, ktoré umožňujú sledovať mozgové bielkoviny v krvi. Vďaka nemu náš ústav dlhodobo poskytuje diagnostické služby pre klinické pracoviská a je zároveň súčasťou mnohých domácich ale aj medzinárodných konzorcií. V roku 2024 sme po prvý krát použili metódu vyšetřovania NfL pri pacientke s amyotrofickou laterálnou sklerózou, ktorej je podávaná génová terapia (Tofersen).

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2024

Forma	Počet k 31.12.2024				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2024					
							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	8	5	2	2	5	4	0	2	0	0	0	0
Denná z iných zdrojov	0	1	0	0	0	1	0	0	0	0	0	0
Externá	0	0	0	0	0	0	0	0	0	0	0	0
Spolu	8	6	2	2	5	5	0	2	0	0	0	0
Z toho zahraničných	6	3	2	1	4	2	0	0	0	0	0	0
Súhrn	14		4		10		2		0		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 2024 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.

5.2. Zmena formy doktorandského štúdia

Tabuľka 5b Počty preradení z dennej formy na externú a z externej na dennú

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

5.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 5c Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Mgr. Kristína Macová	interné štúdium hrazené z prostriedkov SAV	9 / 2020	8 / 2024	1536 biológia	MUDr. RNDr. Dominika Fričová PhD., Neuroimunologický ústav SAV, v. v. i.	Prírodovedecká fakulta UK
Mgr. Karoline Pichlerová	interné štúdium hrazené z prostriedkov SAV	9 / 2020	8 / 2024	1536 biológia	Ing. Jozef Hanes DrSc., Neuroimunologický ústav SAV, v. v. i.	Prírodovedecká fakulta UK

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2024 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2024 (obhajoba leto 2024)	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

Číslo v prvom stĺpci musí byť súčtom čísel v stĺpcoch 2-4, pokiaľ je známe uplatnenie dočasne nezamestnaného absolventa/ky a bude zahrnutý do stĺpcov 2-4. Ak jeho/jej uplatnenie nie je známe, musí byť číslo v stĺpci 1 súčtom čísel v stĺpcoch 2-5

Zoznam interných a externých doktorandov je uvedený v prílohe A-1.

5.6. Medzinárodné doktorandské štúdium

Tabuľka 5f Počet študentov v medzinárodných programoch doktorandského štúdia a počet zahraničných doktorandov

Cotutelle	Co-direction	Iné	Zahranční doktorandi štátne občianstvo/počet
0	0	0	AFG/3, IND/3, SRB/2, SWE/1

Zahranční 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.

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

Tabuľka 5g 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)
biológia	1536	molekulárna biológia	Prírodovedecká fakulta UK
biológia	1536	lekárske neurovedy	Lekárska fakulta UK
biológia	1536	imunológia	Univerzita veterinárskeho lekárstva a farmácie v Košiciach
chémia	1420	analytická chémia	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.

Tabuľka 5h 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 hodnotu alebo vyšší kvalifikačný stupeň
prof. MVDr. Daša Čížková, DrSc. (imunológia)	prof. MVDr. Mangesh Ramesh Bhide, PhD. (Univerzita veterinárskeho lekárstva a farmácie v Košiciach)	Mgr. Karoline Pichlerová, PhD. (PhD., Univerzita Komenského v Bratislave)
prof. MVDr. Daša Čížková, DrSc. (veterinárna chirurgia, ortopédia a röntgenológia)	prof. MVDr. Daša Čížková, DrSc. (Univerzita veterinárskeho lekárstva a farmácie v Košiciach)	
doc. RNDr. Peter Filipčík, CSc. (imunológia)		
prof. RNDr. Eva Kontseková,		

DrSc. (viroológia)		
prof. RNDr. Eva Kontseková, DrSc. (molekulárna biológia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2024

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	3	0	1	0
Celkový počet hodín v r. 2024	38	0	12	0

Prehľad prednášateľov predmetov a vedúcich cvičení, s uvedením názvu predmetu, úväzku, katedry, fakulty, univerzity/vysokej školy je uvedený v prílohe A-4.

Tabuľka 5j Aktivity pracovníkov na VŠ

1.	Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác	10
2.	Počet vedených alebo konzultovaných diplomových a bakalárskych prác	20
3.	Počet pracovníkov, ktorí pôsobili ako škoolitelia doktorandov (PhD.)	8
4.	Počet školených doktorandov (aj pre iné inštitúcie)	13
5.	Počet oponovaných dizertačných a habilitačných prác	7
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	5
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	2
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	3
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	0

5.9. Iné dôležité informácie k pedagogickej činnosti

RNDr. Rostislav Škrabana, PhD.

- člen TAC komisie pre doktorandské práce na CEITEC MU Brno, Česká republika

6. Zmluvná spolupráca s univerzitami/vysokými školami a inými subjektmi vedy a výskumu

Pozn.: Uvádzajte formy spolupráce a aktivity, ktoré nie sú uvedené v kapitolách 2, 3, 4, 5.

6.1. Spoločné pracoviská organizácie

6.1.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Fakulta telesnej výchovy a športu UK

Oblasť spolupráce: Komplexný výskum problematiky úrazov a poranení hlavy a mozgu u hráčov ľadového hokeja.

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2018

Zhodnotenie: Dlhodobá spolupráca s FTVŠ-UK pokračovala aj v roku 2024. Hlavným cieľom je prispieť k poznaniu molekulových mechanizmov indukovaných úrazom hlavy u aktívnych hráčov futbalu. Popri tom sledujeme aj účinky otrasov mozgu u veteránov, ktorí počas svojej aktívnej kariéry utrpeli rôzny počet otrasov mozgu. V roku 2024 sme vykonali niekoľko experimentov na študentoch FTVŠ, na vekovo homogénnej populácii. Odstránili sme efekt fyzickej záťaže na účinky hlavičkového tréningu použitím zariadenia na riadené vystreľovanie lopty tzv. "ball launcher". Získali sme sadu vzoriek krvi pred a po štandardnom hlavičkovom tréningu a psychologické dáta. Spoločné projekty NIU-SAV a FTVŠ-UK sú financované grantovými agentúrami VEGA a APVV. Výsledky doterajšej spolupráce nám umožňujú naďalej podávať spoločné grantové aplikácie na projekty zamerané na riešenie problémov spojených s úrazmi hlavy. Predpokladáme, že očakávané výsledky majú potenciál prispieť k ochrane zdravia hráčov kontaktných športov. V roku 2024 sme dôkladnou analýzou

Názov univerzity/vysokej školy a fakulty: Fakulta zdravotníctva a sociálnej práce TVU

Oblasť spolupráce: Psychologicko - epidemiologický výskum zameraný na objasnenie dôsledkov úrazov hlavy a mierneho otrasu mozgu u hráčov kontaktných športov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2020

Zhodnotenie: Spolupráca NIU v. v. i. SAV s Trnavskou univerzitou v Trnave úspešne pokračovala aj v roku 2024. Spoločne sme analyzovali kognitívne dopady miernych otrasov mozgu u elitných hráčov futbalu, ako aj u 20-22 ročných futbalistov – študentov FTVŠ. Identifikovali sme u nich neuropsychologické zmeny indukované veľmi miernym, ale opakovaným otrasom hlavy spôsobeným hlavičkovaním. Zistili sme, že ženy sú oveľa citlivejšie na mierne otrasy hlavy ako muži. Týka sa to sústredenej pozornosti a kvality pracovnej pamäte. Súčasne platí, že to je jeden z prejavov sexuálneho dimorfizmu, ktorý sme pozorovali aj na biochemickej úrovni. Ďalším cieľom je zistiť ako sú tieto javy asociované s molekulárnymi procesmi v mozgu, ktoré sme v ženskej populácii identifikovali vo forme deregulovaných signálnych dráh reprezentujúcich neuroreparačné, ale aj neurodegeneračné procesy. V súčasnosti riešime jeden spoločný projekt podporený grantom z agentúry APVV.

Názov univerzity/vysokej školy a fakulty: Jesseniova lekárska fakulta UK v Martine

Oblasť spolupráce: Diagnostika pacientov s predklinickým štádiom amyotrofnej laterálnej sklerózy

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2022

Zhodnotenie: V spolupráci s Jesseniovou lekárskou fakultou UK v Martine budujeme kohortu pacientov s ALS. Cieľom spolupráce je identifikovať rodiny s familiárnou formou ALS a osloviť jedincov so špecifickými mutáciami bez klinických príznakov ochorenia. V rámci konzorcia

medzinárodného projektu budeme analyzovať proteóm a metabolóm v krvi, mozgovo-miechovej tekutine a v slzách. V roku 2024 sme sa zamerali na výber vhodných subjektov a ich zaradenie do štúdie. Bolo otestovaných a validovaných niekoľko postupov na spracovanie biologických vzoriek. Výsledky ukázali, že nami používané metódy na stanovenie metabolitov v telesných tekutinách sú dostatočne reprodukovateľné, poskytujú spoľahlivé výsledky a môžu byť použité na analýzu klinických vzoriek v PremoDiALS štúdiu. Z celkového počtu 60 vyšetrených jedincov bolo do štúdie zaradených 25 vhodných kandidátov. U vybraných pacientov sme testovali krvné biomarkery. Projekt prináša na Slovensko nové poznatky v diagnostike ALS a vytvára priestor pre medializáciu ochorenia.

Názov univerzity/vysokej školy a fakulty: Univerzita veterinárskeho lekárstva a farmácie v Košiciach

Oblasť spolupráce: Neurovedný výskum, vývoj inovatívnych bunkových a farmakologických prístupov určených na diagnostiku a regeneráciu poškodených tkanív a orgánov

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 2010

Zhodnotenie: NIU v. v. i. spoločne s CEKRM/Klinikou malých zvierat UVLF rieši projekt zameraný na identifikáciu miRNA biomarkerov v periférnych telesných tekutinách nádorov mliečnej žľazy súk. Na základe profilu aberantne exprimovaných miRNA biomarkerov je selektovaná najvhodnejšia periférna tekutina na diagnostiku nádorov mliečnej žľazy v klinickej praxi. Vznikla spolupráca s odborníkmi oddelenia reprodukcie pri získavaní neonatálnych tkanív, tkanív po vykonaní ovariohysterektómie a telesných tekutín, zdravých či patientskych psov, ktoré sa následne v centre spracovávajú, analyzujú a v budúcnosti budú využité na diagnostické alebo terapeutické účely. Sľubné výsledky sa nám podarilo získať pri spolupráci s odborníkmi neurologického a ortopedického oddelenia. Lokálna bunková terapia sa ukázala byť v prípadových štúdiách bezpečná a efektívna pri liečbe traumatického poranenia miechy, lézií šliach a u pacientov s osteoartrózou laktových kĺbov.

Názov univerzity/vysokej školy a fakulty: Univerzita veterinárskeho lekárstva a farmácie v Košiciach

Oblasť spolupráce: Štúdium zoonóz atakujúcich CNS (Štúdium procesu prechodu neuroinvazívnych patogénov cez hematoencefalickú bariéru (HEB)).

Sídlo spoločného pracoviska (ak je vytvorené):

Začiatok spolupráce: 1996

Zhodnotenie: LBMI-UVLF sa podieľa na štúdiu prechodu neuroinvazívnych patogénov cez HEB. Na modelovanie ligand-receptor interakcie počas prechodu patogénov cez HEB používame organizmy: *Borrelia* a *Neisseria* a in vitro model HEB. Oba patogény sú schopné preniknúť do CNS, pričom adhézia baktérií na endotelové buky MMEB je kritickým krokom v patogenéze neuroboreliózy a neurofranciselózy. Od roku 2008 vzrástla spolupráca s pracoviskom NIU SAV v oblasti kultivácie MMEB a prípravy funkčného in vitro modelu HEB. Výsledky získané počas spolupráce preukázali rozdielnú schopnosť adhézie na povrch MMEB a prechodu cez model HEB medzi neuroinvazívnymi a ne-neuroinvazívnymi patogénmi. Podarilo sa nám dokázať nezastupiteľnú úlohu povrchových proteínov patogénu v tomto procese a objasniť základné deje počas prechodu patogénu cez HEB.

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

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

- **Centrum Memory**
Mlynarovičova 21, 851 03 Bratislava

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

- **Laboratórium biomedicínskej mikrobiológie a imunológie**
Komenského 73, 04181 Košice
- **Centrum experimentálnej a klinickej regeneračnej medicíny (CEKRM)**
Komenského 73, 04181 Košice

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. Vedecko-organizačné a popularizačné aktivity

7.1. Vedecko-popularizačná činnosť

Tabuľka 7a Súhrnné počty vedecko-popularizačných činností organizácie SAV

Typ	Počet	Typ	Počet	Typ	Počet
prednášky/besedy	14	tlač	14	TV	2
rozhlas	1	internet	6	exkurzie	0
publikácie	0	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

7.2. Vedecko-organizačná činnosť

Tabuľka 7b Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
6th Mini-Symposium On The Blood-Brain Barrier From Basic To Clinical Research	medzinárodná	Smolenice	19.3.-20.3.2024	50

7.3. Účasť na výstavách

7.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 7c Programové a organizačné výbory národných konferencií

Meno pracovníka	Programový	Organizačný	Programový i organizačný
Čente Martin	1	0	0
Filipčík Peter	1	0	0
Spolu	2	0	0

7.5. Členstvo v redakčných radách časopisov

prof. MVDr. Mangesh Ramesh Bhide, PhD.

Folia Microbiologica (funkcia: člen)

Frontiers in Microbiology (funkcia: člen)

prof. MVDr. Daša Čížková, DrSc.

Frontiers in Immunology (funkcia: člen panelu hodnotiteľov)

Ing. Jozef Hanes, DrSc.

Frontiers in Neuroscience (funkcia: Review Editor for Neurodegeneration)

MUDr. Mgr. Tomáš Hromádka, PhD.

Frontiers in Neuroscience (funkcia: Review Editor for Neurodegeneration)

Frontiers in Psychiatry (funkcia: editor)

PharmDr. Andrej Kováč, PhD.

Current Pharmaceutical Design (funkcia: editor)

Molecules (funkcia: editor)

Mgr. Branislav Kováčech, PhD.

Frontiers in Neuroscience (funkcia: Review Editor in Neurodegeneration)

Dr. h. c. prof. MVDr. Michal Novák, DrSc.

Bratislavské Lekárske Listy (funkcia: vedecký redaktor)

Cellular and Molecular Neurobiology (funkcia: člen redakčnej rady)

Folia Veterinaria (funkcia: člen redakčnej rady)

Frontiers in Neurodegeneration (funkcia: člen redakčnej rady)

Journal of Alzheimers Disease (funkcia: člen redakčnej rady)

doc. PharmDr. Juraj Piešťanský, PhD.

Pharmaceuticals (funkcia: guest editor)

prof. MUDr. Eva Syková, DrSc.

Cells (funkcia: člen)

Frontiers in Cell and Developmental Biology (funkcia: Associate editor)

Neuroscience Letters (funkcia: člen)

RNDr. Rostislav Škrabana, PhD.

Frontiers in Neuroscience (funkcia: Review Editor for Neurodegeneration)

doc. MVDr. Norbert Žilka, DrSc.

Frontiers in Neuroscience (funkcia: Review Editor for Neurodegeneration)

RNDr. Monika Žilková, PhD.

Frontiers in Neuroscience (funkcia: Review Editor for Neurodegeneration)

7.6. Činnosť v domácich vedeckých spoločnostiach

MSc. Neha Basheer, PhD.

Slovenská alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

prof. MVDr. Mangesh Ramesh Bhide, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Ing. Ondrej Cehlár, PhD.

Czech and Slovak Crystallographic Association (funkcia: člen)

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská biofyzikálna spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

RNDr. Martin Čente, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen výboru)

prof. MVDr. Daša Čížková, DrSc.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: predseda)

MVDr. Ľubica Fialová, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

doc. RNDr. Peter Filipčík, CSc.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen výboru)

Slovenská spoločnosť pre neurovedy (funkcia: predseda)

MUDr. RNDr. Dominika Fričová, PhD.

Slovenská alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Ing. Jozef Hanes, DrSc.

Slovenská Alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Marián Horváth

Slovenská alzheimerova spoločnosť (funkcia: člen)

Slovenská imunologická spoločnosť (funkcia: člen)

Slovenská spoločnosť pre neurovedy (funkcia: člen)

MUDr. Mgr. Tomáš Hromádka, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

prof. RNDr. Eva Kontseková, DrSc.

Slovenská Alzheimerova Spoločnosť (funkcia: člen)
Slovenska Imunologická Spoločnosť (funkcia: predseda)
Slovenská Spoločnosť pre Neurovedy (funkcia: člen)

MUDr. Peter Kosoň, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: čestný člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

PharmDr. Andrej Kováč, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Branislav Kováček, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Amod Kulkarni, M.Sc., PhD.

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Kristína Macová

Slovenská alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Petra Majerová, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Ing. Pavol Novák, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

MUDr. Petr Novák, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

MUDr. Vojtech Parrák

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Ing. Gabriela Paulíková Roľková, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

doc. PharmDr. Juraj Piešťanský, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská neuroimunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Karoline Pichlerová, PhD.

Slovenská alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Adam Polák

SKBS (Slovak Biophysical Society) (funkcia: člen)

MVDr. Mgr. Tomáš Smolek, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

prof. MUDr. Eva Syková, DrSc.

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Jakub Šinský, PhD.

Slovenská alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

RNDr. Rostislav Škrabana, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská biofyzikálna spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Michaela Škrabanová, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Katarína Tomková

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

Ing. Natália Turic Csóková, PhD.

Slovenská alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

M.Sc. Miraj Ud Din Momad

Slovenská spoločnosť pre neurovedy (funkcia: člen)

Mgr. Ľubica Wojčiaková

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

doc. MVDr. Norbert Žilka, DrSc.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská Imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

RNDr. Monika Žilková, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)

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

Minikonferencia organizovaná spoločne s FTVŠ-UK a TU

Názov: ÚRAZY HLAVY A KRKU – REÁLNY NEPRIATEĽ V ŠPORTOVÝCH HRÁCH

Počet účastníkov: 124

Neuroimunologický ústav SAV v.v.i. spoločne so Slovenskou spoločnosťou pre neurovedy pri SAV bol spoluorganizátorom konferencie zameranej na traumatické poškodenie mozgu u hráčov kontaktných športov, špecificky u elitných futbalistov a hokejistov. Konferencia sa uskutočnila dňa 11.12. 2024 v aule FTVŠ. Zástupcovia NIU SAV boli členmi programového výboru. Účasť na podujatí prijali športovci, tréneri, telovýchovní pedagógovia a výskumníci. Okrem toho sa jej zúčastnili študenti FTVŠ, doktorandi, fyzioterapeuti, zástupcovia športových zväzov, novinári a hostia. Na konferencii odznelo 13 prednášok a koreferátov a okrem toho bolo prezentovaných 7 posterov. Z príspevkov na konferencii bol vydaný zborník vedeckých prác podporených grantovými úlohami: APVV-22-0615; APVV-22-0470; APVV-22-0613 a VEGA-2-0141-23, ktorý vydala Slovenská vedecká spoločnosť pre telesnú výchovu a šport, v náklade 100 ks (ISBN 978-80-8251-021-1).

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

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
prof. MVDr. Mangesh Ramesh Bhide, PhD.	European Comission - H2020 Widespread - ERA chair program	člen
doc. RNDr. Peter Filipčík, CSc.	MŽP SR, Komisia pre biologickú bezpečnosť	člen
MUDr. Mgr. Tomáš Hromádka, PhD.	Programový výbor Európska rada pre výskum (ERC) programu Horizont Európa	Národný delegát
	Pracovná skupina pre rámcový program EÚ pre výskum a inovácie	člen
	Hodnotiteľská komisia na hodnotenie spôsobilosti právnických osôb a fyzických osôb uskutočňujúcich výskum a vývoj	člen
MVDr. Veronika Maté, PhD.	Národný výbor na ochranu zvierat používaných na vedecké účely	predseda
doc. MVDr. Norbert Žilka, DrSc.	VAIA (Výskumná a inovačná autorita)	člen poradného orgánu
	Akreditačná komisia, poradný orgán vlády SR	člen pracovnej skupiny pre oblasti výskumu 20: Veterinárske vedy

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
prof. MVDr. Mangesh Ramesh Bhide, PhD.	Rada pre program Podpora prípravy a realizácie riešenia projektov výskumu a vývoja rámcového programu EÚ pre výskum a inovácie do roku 2020 – HORIZONT 2020 (PP H2020)	člen
prof. MVDr. Daša Čížková, DrSc.	Rada vlády pre vedu, výskum a inovácie	člen
doc. MVDr. Norbert Žilka, DrSc.	Rada APVV pre lekárske vedy	podpredseda

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

V spolupráci s Úradom vlády SR a VAIA sa NiU SAV podieľal na Aktualizácii Súhrnnej správy z procesu EDP k SK RIS3 2021+, ktorá predstavuje záväzok voči Európskej komisii zabezpečiť kontinuálny proces aktualizácie priorít SR inteligentnej špecializácie v zmysle metodiky procesu podnikateľského objavovania (angl. Entrepreneurial Discovery Process, ďalej len „EDP“). EDP je založený na priebežnom zapájaní zainteresovaných subjektov, ktorí do tohto prístupu prinášajú nevyhnutnú expertízu a spolu s vizionármi a koordinátormi domén predstavujú neizolovaný ekosystém s priamym dopadom na všetky sektory národného hospodárstva vrátane verejnej sféry a štátnej správy. Norbert Žilka ako jeden z koordinátorov domény Zdravá spoločnosť sa podieľal na komplexnej aktualizácii domény Zdravá spoločnosť.

Cieľom aktualizácie Súhrnnej správy na roky 2025-2027 bolo zohľadniť globálne a trhové zmeny v národnom aj medzinárodnom kontexte, ku ktorým došlo od schválenia aktuálne platnej Súhrnnej správy v roku 2021. Aktualizácia Súhrnnej správy má viesť k adresnejšiemu nasmerovaniu disponibilných finančných zdrojov do výskumu, vývoja a inovácií z Programu Slovensko v druhej polovici programového obdobia vymedzeného pre čerpanie a implementáciu Európskych zdrojov.

Norbert Žilka sa podieľal na príprave výziev pre Ministerstvom zdravotníctva SR, Dobudovanie výskumných infraštruktúr - podpora aplikovaného výskumu a vývoja pre projekty od myšlienky k produktu v doméne Zdravá spoločnosť a Dobudovanie výskumných infraštruktúr pre riešenie celospoločenských výziev a mimoriadnych situácií (biobanková infraštruktúra).

9. Aktivity v orgánoch SAV

9.1. Členstvo vo Výbore Snemu SAV

9.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

MUDr. Mgr. Tomáš Hromádka, PhD.

- ČLEN PREDSEDNÍCTVA SAV PRE 2. ODDELENIE VIED
- ČLEN VEDECKEJ RADY SAV

9.3. Členstvo v komisiách SAV

MUDr. Mgr. Tomáš Hromádka, PhD.

- Komisia pre hodnotenie grantov doktorandov SAV (člen)
- Komisia pre stratégiu rozvoja SAV (člen)
- Komisia SAV pre informačné a komunikačné technológie (člen)
- Komisia SAV pre médiá, komunikáciu a program Otvorená akadémia (člen)
- Komisia SAV pre vyhodnocovanie medzinárodných projektov (predseda)

9.4. Členstvo v orgánoch VEGA

prof. MVDr. Mangesh Ramesh Bhide, PhD.

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

PharmDr. Andrej Kováč, PhD.

- Komisia VEGA č. 9 pre lekárske vedy a farmaceutické vedy (člen)

10. Starostlivosť o ľudské zdroje, rodovú rovnosť, pracovné a sociálne podmienky zamestnancov a uplatňovanie ich práv

10.1. Uplatňovanie princípov stratégie ľudských zdrojov HRS4R

Uved'te stručnú charakteristiku a hodnotenie aktivít v oblasti HRS4R.

10.2. Informácie o aktivitách súvisiacich s uplatňovaním princípov rodovej rovnosti

Vedenie ústavu dbá na presadzovanie rodovej rovnosti, čím sa snaží vytvárať lepšie pracovné podmienky, ktoré pomáhajú vytvárať kvalitné výsledky a využívať potenciál celého tímu. Týmto spôsobom sa snaží predchádzať mrhaniu a odchodu talentov. Rozumie, že rodová rovnosť zvyšuje kvalitu vedeckých výstupov tým, že zohľadňuje rôznorodé hľadiská a prístupy. Ústav kladie nekompromisný dôraz na rovnosť šanci a príležitostí pre pracovníkov, nehládajac na ich pohlavie. Vedenie hodnotí pracovníkov čisto na základe kompetencie. Obzvlášť sa na NIU SAV, v. v. i. dbá na bezpečné pracovné prostredie bez rodovo podmieneného násilia a sexuálneho obťažovania.

Neuroimunologický ústav SAV mal k 31.12.2024 v zamestnaneckom pomere 32 žien, čo predstavuje 56% z celkového počtu zamestnancov.

Z celkového počtu vedeckých pracovníkov na ústave pracuje 53 % žien.

Správna rada NIU SAV, v. v. i. má okrem predsedu štyroch členov, z ktorých sú dve ženy, prof. Kontseková a prof. Čížková, vedeckou tajomníčkou a zároveň podpredsedníčkou Vedeckej rady ústavu je RNDr. Monika Žilková, PhD.

Vedúcimi dvoch laboratórií sú na NIU SAV, v. v. i. ženy. prof. Eva Kontseková a prof. Daša Čížková.

Prof. Eva Kontseková je zároveň zástupkyňou riaditeľa nášho ústavu.

Zo štrnástich doktorandov NIU SAV, v. v. i., bolo v roku 2024 šesť žien.

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

10.2.1. Rodová skladba hlavných riešiteľov (vedúcich) projektov

Prípadný stručný komentár ako úvod (nepovinný).

Tabuľka 10a 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	10	8	2	2	2	0
2. Projekty APVV	11	6	5	6	5	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	4	1	0	0	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.)	2	0	2	0	0	0

Tabuľka 10b 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	5	4	1
2. Projekty ERA.NET, ESA, JRP	0	0	0	3	3	0
3. Projekty COST	0	0	0	1	1	0
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	2	0	2	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	0	0	0	0	0	0
8. Podpora MVTS z národných zdrojov (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

10.2.2. Výskum zameraný na rodovú problematiku

Uved'te 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 A-3.

10.3. Informácie o pracovných a sociálnych podmienkach zamestnancov a uplatňovaní ich práv

Uved'te stručné, základné informácie k problematike.

11. Orgány v. v. i., ich skladba a činnosť, štrukturálne, organizačné a právne zmeny v organizácii

11.1. Správna rada - zloženie a základná informácia o činnosti

Správna rada

- **Doc. MVDr. Norbert Žilka, DrSc**

členovia

- Prof. RNDr. Eva Kontseková, DrSc.
- Prof. MVDr. Dáša Čížková, DrSc.
- Doc. RNDr. Peter Filipčík, PhD.
- PharmDr. Andrej Kováč, PhD.

11.2. Vedecká rada - zloženie a základná informácia o činnosti

Vedecká rada

- **Mgr. Branislav Kováček, PhD.**

Interní členovia

- RNDr. Rostislav Škrabana, PhD.
- RNDr. Monika Žilková, PhD

Externí členovia

- Prof. MVDr. Juraj Pistl, PhD.
- Prof. MVDr. Emil Pilipčinec, PhD.

11.3. Dozorná rada - zloženie a základná informácia o činnosti

Dozorná rada

- **Prof. RNDr. Ľubica Lacinová, DrSc.**
- Prof. MUDr. Milan Buc, DrSc.
- JUDr. Glória Gajdošová

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uved'te stručné, základné informácie k problematike.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Uved'te stručné, základné informácie k problematike.

12. Činnosť knižnično-informačného pracoviska organizácie

12.1. Knižničný fond

Neuroimunologický ústav SAV, v. v. i. nemá samostatne zriadené knižničné pracovisko. Na ústave existuje zálohovaný plnotextový repozitár vedeckých prác s ústavnou afiliáciou a plnotextová databáza prác súvisiacich s projektmi riešenými na ústave, najmä v oblastiach

1) neurovedy, 2) imunológia, 3) štruktúrna biológia, 4) proteomika, 5) transkriptomika, 6) bunková biológia.

Dokumentácia o zhromaždenej literatúre je vedená elektronicky v databáze obsluhovanej profesionálnym bibliografickým databázovým softvérom.

Okrem časopiseckých publikácií sú v systéme evidované všetky odborné monografie, ktoré má ústav k dispozícii v tlačenej verzii. Študenti a vedeckí pracovníci ústavu majú možnosť využívať túto databázu, priebežne ju dopĺňať o nové príspevky zo svojej špecifickej oblasti získané prostredníctvom Internetu v medzinárodných informačných databázach alebo získanú v rámci riešených projektov. Postupne sa tak vytvára komplexný zoznam publikovaných výsledkov a trendov dosiahnutých v špecifických oblastiach výskumu, na ktoré sa zameriava Neuroimunologický ústav SAV, v. v. i.

13. Nadácie a fondy pri organizácii

Neuroimunologický ústav SAV, v. v. i. nemá zriadenú nadáciu.

14. Realizácia Koncepcie dlhodobého rozvoja a Akčného plánu organizácie

14.1. Odporúčania z posledného pravidelného (akreditačného) hodnotenia organizácií SAV

Odporúčania „Metapanel evaluation report“:

- A. Popis stratégie a cieľov by mal byť koherentnejší vzhľadom na závažnosť riešených tém
- B. Ústav by mal zadefinovať oblasti v ktorých cieľi na vedúcu pozíciu v Európe a vo svete a zamerať sa na najsilnejšie z nich
- C. Zvýšiť úroveň časopisov, v ktorých publikuje
- D. Posilniť výskum zlepšením štruktúry a stratégie získavania mladých vedeckých pracovníkov
- E. Pripraviť schémy aktívneho prístupu na pomoc študentom pri výbere ich kariérneho rastu
- F. Nastaviť postupy a ciele na podávanie patentov, ochranu IPR a licencovanie

14.2. Hlavné body Akčného plánu organizácie a stav ich plnenia

Hlavným cieľom Neuroimunologického ústavu SAV, v. v. i. je výskum neurodegeneračných ochorení s dôrazom na Alzheimerovu chorobu, traumatické poškodenie mozgu a miechy, Parkinsonovu chorobu a neuroinfekcie (vrátane COVID-19) na akademickej a klinickej platforme; a jeho integrácia do globálnych medzinárodných iniciatív (napr. JPND, CoEN). Poslaním ústavu je zároveň aplikovať získané vedecké poznatky na zlepšenie života pacientov trpiacich neurodegeneračnými ochoreniami a traumatickým poškodením mozgu a miechy.

Strategické ciele akčného plánu: (viď Strategický plán NIU SAV 2018 - 2025)

A. Štruktúra oddelení NIU SAV

Organizačná štruktúra NIU SAV, v. v. i., inšpirovaná poprednými svetovými výskumnými inštitúciami (napr. MRC), je založená na menších výskumných skupinách (4 - 8 výskumných pracovníkov na skupinu), čo umožňuje vysoko dynamický a flexibilný prístup k otázkam multidisciplinárneho výskumu. Každá vedecká skupina sa zameriava na presne definované výskumné témy.

Výskumné skupiny:

Neuroimunologický ústav (základný výskum)

- PROTEOMIKA A METABOLOMIKA
- ŠTRUKTÚRNA BIOLÓGIA
- IMUNOLÓGIA A NEUROIMMUNOLÓGIA
- MOLEKULÁRNA BUNKOVÁ NEUROBIOLÓGIA
- INTEGROVANÁ NEUROMIKA
- SYSTÉMOVÉ NEUROVEDY
- POČÍTAČOVÁ NEUROBIOLÓGIA
- LABORATÓRIUM VÝSKUMU PARKINSONOVEJ CHOROBY

Neurodiagnostické laboratória (aplikovaný výskum):

- PROTEOMICKÁ DIAGNOSTIKA / BIOMARKERY
- GENETICKÁ / EPIGENETICKÁ DIAGNOSTIKA
- PSYCHODIAGNOSTIKA

Spoločné pracovisko Laboratórium biomedicínskej mikrobiológie a imunológie (základný a aplikovaný výskum):

- BIOLÓGIA INTERAKCIÍ NEUROPATHOGENU S BBB
- IMUNOLOGICKÉ ASPEKTY INTERAKCIE HOSTITEĽ-NEUROPATHOGEN

Spoločné pracovisko Centrum experimentálnej a klinickej regeneračnej medicíny

B. Zvýšenie kvality doktorandského štúdia a podpora mladých vedeckých pracovníkov

- Aktívne vyhľadávať vynikajúcich študentov z domácich a zahraničných univerzít;
- Stanoviť prísnejšie kritériá pre prijímanie študentov (slovenských aj zahraničných) do doktorandských programov v odboroch: neurovedy, imunológie a molekulárnej biológie;
- Stanoviť prísnejšie kritériá pre dohľad a mentorstvo pre postgraduálnych študentov a začínajúcich postdoktorandov;
- Podporovať pravidelnú účasť absolventov vysokých škôl na medzinárodných výskumných konferenciách;
- Zabezpečiť, aby sa postgraduálni študenti a postdoktorandi zúčastňovali na multidisciplinárnych projektoch s cieľom rozvíjať a podporovať ich medzinárodne konkurencieschopné vedecké návyky;
- Podporovať postgraduálne štipendia v prestížnych výskumných inštitúciách v zahraničí;
- Stimulovať dlhodobé študentské výmeny doktorandov a postdoktorandských výskumných pracovníkov s renomovanými medzinárodnými výskumnými inštitúciami

Progres za 2024:

NIU SAV, v. v. i. naďalej podporuje mladých doktorandov a postdoktorandských výskumných pracovníkov. Zabezpečuje ich vedecké stáže na zahraničných pracoviskách, študenti sa aktívne zúčastňujú na medzinárodných vedeckých podujatiach. V roku 2024 NIU SAV školil 14 PhD študentov, dve študentky úspešne ukončili doktorandské štúdium. Zároveň, v roku 2024 boli prijatí štyria noví doktorandi (jedna domáca a traja zahraniční doktorandi). Študenti sa každý týždeň aktívne zúčastňujú na pravidelných vedeckých ústavných mítingoch, kde prezentujú svoje projekty a analyzujú publikované výsledky zahraničných odborníkov.

Kevin James získal podporu z Doktograntu na rok 2024/2025 25 (application number No. APP0678) a aktívne sa zúčastnil konferencie **6th Mini symposium on the Blood Brain Barrier from basic to clinical research, Smolenice**, kde mal aktívnu účasť.

Miraj Ud Din Momand získal cestovný grant na vedeckú školu **1st IMMUPARKNET Training School - Models for Parkinson's disease: from basics to translation**, June 6-8, 2024, Covilhã, Portugal. Ďalej sa zúčastnil konferencie **XXIII. Meeting of Biochemists and Molecular Biologists 12.11.2023-13.11.2024, Brno, Czech Republic**, kde prezentoval svoje výsledky a získal ocenenie za excelentnú prezentáciu posteru.

Stefana Njemoga sa v rámci svojho Doktograntu zúčastnila konferencie a letnej školy: **10th Regional Biophysics conference and & 15th International Summer School of Biophysics** v Splitte v Chorvátsku, kde prezentovala svoje výsledky.

Krutika Khiratkar získala **Motivačné štipendium** na rok 2024. Aktívne sa zúčastnila na dvoch zahraničných konferenciách: **26th International Symposium on "Signal Transduction at the Blood-Brain Barriers"**, Szeged, Hungary a **9th International Symposium On Experimental and Clinical Neurobiology**.

Andrej Durgala sa zúčastnil 3 mesačného pobytu v **IHEM Mendoza v Argentíne** v rámci projektu InterTau, kde získal praktické skúsenosti na riešenie projektu Mesenchymal stem cell therapy for the treatment of traumatic brain injury. V roku 2024 bol podporovaný vlastným **Doktograntom**.

Shahid Ullah Zadran sa v roku 2024 zúčastnil konferencie **TOLL 2024 Meeting** v Rotterdame, v rámci JPND grantu a workshopu, ktorý sa zaoberal prípravou ECR grantov v Starej Lesnej: **Project management workshop**.

Muhammad Khalid Muhammadi v roku 2024 získal financovanie z **Doktogramu** a aktívne sa zúčastnil na konferenciách 15th world congress on Targeting Mitochondria v Nemecku a AD/PD™ 2024 v Portugalsku.

Karolína Pichlerová v roku 2024 prezentovala svoje výsledky na dvoch konferenciách: "**6th Minisymposium on the blood-brain barrier: from basic to clinical research**" a **26th International Symposium on "Signal Transduction at the Blood-Brain Barriers"** a úspešne ukončila svoje štúdium. Po ukončení štúdia získala **podporný fond Štefana Schwarza**, ktorý umožňuje pokračovať vo výskume nadväzujúc na získane výsledky.

Neha Basheer sa aktívne zúčastnila viacerých zahraničných konferencií: **AD/PD™ 2024 v Portugalsku** a **TOLL 2024 Meeting** a spolu s tímom NIU SAV prispela k získaniu prestížneho **JPND grantu**.

NIU SAV každoročne otvára brány svojho pracoviska aj pre stážistov a diplomantov.

C. Zvýšiť úspech v národných a medzinárodných programoch

- Zvýšiť počet a kvalitu žiadostí o financovanie prostredníctvom grantov na výskum

Progres za 2024:

V roku 2024 sa Neuroimunologický ústav SAV, v. v. i. podieľal na riešení medzinárodných grantov v **3 konzorciách EraNet** v rámci Horizont 2020, **1x H2020-MSCA-RISE**, **1x Horizont Európa**, **1x COST**, **3x JPND** a **2x ICGEB**. V rámci národných projektov a grantových agentúr sme riešili **17 projektov APVV**, **11 projektov VEGA**, **2x PLAN OBNOVY** - Excelentná veda (Ukrajina), **PLAN OBNOVY** 1x Excelentný výskumník, 1x **Matching**, 1 x **Booster** a 2 x **R2**.

V priebehu roka 2024 bolo podaných **5 nových APVV projektov vo výzve MVP**, **5 VEGA grantov**, **1 x HORIZONT**, **1 x INTERREG** a **4 x HORIZON EUROPE**: **1x MSCA**, **1x ERC** a **2x JPND**

D. Zvýšenie kvality výskumných výstupov

- Zvýšiť podiel publikácií vo vysoko-impaktovaných časopisoch v prvom kvartile/decile
- Zvýšiť počet publikácií na výskumného pracovníka
- Motivovať publikačnú aktivitu oceňovaním

Progres za 2024:

Rok 2024 priniesol kvalitatívny posun v publikačnej aktivite ústavu.

Dáša Čížková v spolupráci s kolegami z INSERM Lille publikovali výsledky inhibície furínu v CAR makrofágoch v časopise **Cell Death and Disease** (IF=8,1).

Kolektív medzinárodného projektu **INTER TAU** pod vedením Rostislava Škrabanu (za NIU SAV) publikoval svoje výsledky zo štúdie tau filamentov v prestížnom odbornom časopise **Angew Chem Int Ed Engl** (IF=16,1)

Vedci NIU SAV sa podieľali na publikácii v spolupráci **AXON NEUROSCIENCE**, ktorá sa venuje klinickému vývoju vakcíny AADvac1 na liečbu Alzheimerovej choroby (**Alzheimers Res Ther.** 2024) (IF=7,9)

Konzorcium **EuroTau** pod vedením Norbert Žilku publikovali aktuálny stav poznania v oblasti

výskumu šírenia tau patológie a využitií animálnych modelov pre štúdium týchto procesov (Acta Neuropathol Commun. 2024).

Odborníci z tímu Andreja Kováča NiU SAV publikovali v časopise **J Neuroinflammation** (IF=9) výskum lipidov v procese tau neurodegenerácie.

Igor Jurišica publikoval v prestížnych časopisoch: **Cellular and Molecular Immunology** (IF=21.8), **Nucleic acid research** (IF=16,6) a **Nat Commun.** (IF=14.1).

E. Definovať formu spolupráce so súkromným sektorom

Neuroimunologický ústav sa podieľal na zavedení nového krvného biomarkera, ľahký reťazec neurofilamentu, do klinickej praxe. Od roku 2023 sa neurofilament začal využívať na monitorovanie poškodenia mozgu a účinnosti terapie u pacientov s roztrúsenou sklerózou. Je to historický prielom vo využívaní krvných biomarkerov pre ochorenia mozgu v klinickej praxi.

14.3. Aktualizácia Akčného plánu organizácie v roku 2023

NiU SAV, v. v. i. na základe odporúčaní posledného pravidelného hodnotenia organizácií SAV - Metapanel evaluation report, modifikoval hlavné body akčného plánu na roky 2023 - 2026 nasledovne:

A. Popis stratégie a cieľov by mal byť koherentnejší vzhľadom na závažnosť riešených tém

Naše výskumné stratégie sú pregnantne definované v niekoľkých oblastiach výskumu.

I. ĽUDSKÉ OCHORENIA CNS

1. Alzheimerova choroba

- modulátory neurofibrilárnej degenerácie – astrocyty a mikroglie
- mechanizmy poškodenia mozgo-cievnej bariéry a štúdium transportných systémov
- nové diagnostické biomarkery
- nefarmakologické liečebné stratégie
- štruktúra globulárnych proteínov

2. Parkinsonova choroba

- procesy starnutia v ľudských synukleinopatiách

3. Traumatické poškodenie mozgu

- biomarkery traumatického poškodenia mozgu u športovcov

4. Traumatické poškodenie miechy

- bunková terapia traumy miechy

5. Amyotrofická laterálna skleróza

- predklinické molekulárne vzorce ALS

II. ZOONÓZY

1. Infekčné ochorenia mozgu

- interakcie medzi patogénom a endotelovými bunkami kapilár
- terapia bakteriálnych infekcií mozgu

III. OCHORENIA CNS PSOV

1. Ochorenia mozgu psov

- príčina vzniku meningoencefalitídy psov neznámeho pôvodu
- diagnostické biomarkery meningoencefalitídy psov neznámeho pôvodu

Aktualizácia za rok 2024:

V oblasti Parkinsonovej choroby sme otvorili novú tému, ktorá je zacielená na vývoj nových diagnostických testov s dôrazom na RT-QuIC metódu v mozgovo-miechovej tekutine. V roku 2024 sme získali Matching grant, ktorý sa venuje práve vývoju diagnostických testov pre synukleinopatie.

Hoci sme z kapacitných dôvodov ukončili výskum biomarkerov pre ochorenie CNS psov v roku 2024 bola publikovaná nová práca o biomarkeroch *Smolek T et al., On the utility of cerebrospinal fluid biomarkers in canine neurological disorders. Sci Rep. 2024, 15;14(1):24129.*

B. Ústav by mal zadefinovať oblasti, v ktorých cieľi na vedúcu pozíciu v Európe a vo svete a zamerať sa na najsilnejšie z nich

NIU SAV definovala niekoľko oblastí, kde cieľime na vedúcu pozíciu v medzinárodnom kontexte:

- Mozgovo-cievna bariéra – fyziológia, patológia a transportné mechanizmy
- Infekčné ochorenia mozgu – nové terapeutické prístupy
- Traumatické poškodenie mozgu – nové diagnostické nástroje
- Meningoencefalitída psov neznámeho pôvodu – nové diagnostické nástroje

Vo vybraných oblastiach už máme dlhoročnú expertízu, resp. si vytvárame priestor prostredníctvom inovatívnych prístupov. NIU SAV bude postupne definovať ďalšie oblasti, v ktorých by sa mohla perspektívne presadiť na medzinárodnej scéne.

Aktualizácia za rok 2024:

NIU SAV mierne pozmenila oblasti výskumu, kde cieľime na vedúcu pozíciu v medzinárodnom kontexte:

- Extracelulárna matrica v mozgu – fyziológia a patológia
- Mozgovo-cievna bariéra – fyziológia, patológia a transportné mechanizmy
- Traumatické poškodenie mozgu športovcov – biomarkery
- Rizikové a protektívne faktory pre rozvoj demencie
- Infekčné ochorenia mozgu – nové terapeutické prístupy

C. Zvýšiť úroveň časopisov, v ktorých publikuje

Zvýšenie kvality odborných časopisov, v ktorých publikujeme, je dlhodobou stratégiou nášho pracoviska. NIU SAV plánuje meniť doterajšiu publikačnú politiku, namiesto kvantity sa sústreďujeme na dlhodobu udržateľnú kvalitu našich publikačných výstupov. Vedúci pracovníci identifikovali špičkové odborné časopisy, v ktorých sa chceme presadiť. Naším cieľom nie je len zohľadňovať impakt faktor ale aj celkové postavenie vybraných časopisov v oblasti nášho výskumu.

V nasledujúcom období budeme honorovať všetky publikácie, ktoré budú uverejnené v prestížnych odborných časopisoch. Odlišne budeme honorovať práce pochádzajúce z našej tvorivej dielne a tie, kde sme len prispeli našimi výsledkami. Naším cieľom je, aby sa odborní pracovníci ústavu čoraz

častejšie objavovali na prvom a poslednom mieste autorského kolektívu.

Druhým pilierom úspešnosti sú medzinárodné vedecké granty, ktoré nám pomôžu generovať kvalitné vedecké dáta a lepšie sa presadiť v celosvetovej konkurencii. Každý vedúci výskumný pracovník je povinný sa zapojiť aspoň do jedného medzinárodného vedeckého programu. A prostredníctvom participácie na projekte sa budeme snažiť presadiť pri publikovaní výsledkov.

Aktualizácia za rok 2024:

V roku 2024 sme publikovali v niekoľkých renomovaných vedeckých časopisoch:

Angew Chem Int Ed Engl (IF=16.1), Nat Commun. (IF=14.7), J Neuroinflammation. (IF=9.3), Cell Death and Disease (IF=8.1).

D. Posilniť výskum zlepšením štruktúry a stratégie získavania mladých vedeckých pracovníkov

V nasledujúcom období sa sústreďíme na študentov univerzít a ponúkať im možnosť realizovať diplomovú prácu na našom pracovisku. Prostredníctvom tohto prístupu chceme zvýšiť pravdepodobnosť odhalenia nových talentov, ktorí k nám môžu v budúcnosti nastúpiť na doktorandské štúdium.

Dôležitou súčasťou našej stratégie sú aj vybrané prednášky na pôde univerzít, vďaka čomu môžeme prilákať pozornosť mladých talentovaných študentov a prebudiť ich záujem o výskum v oblasti neurovied a imunológie. Budeme podporovať našich vedeckých pracovníkov, aby sa podieľali na pedagogických aktivitách na vybraných slovenských ale aj zahraničných univerzitách.

Samostatnú kategóriu tvoria industriálni PhD študenti, ktorí budú môcť participovať na komerčnom aj základnom výskume pod hlavičkou nášho pracoviska a v spolupráci s vybranými biotechnologickými firmami.

Aktualizácia 2024

Ústav pravidelne medializuje výsledky v slovenských mienkotvorných médiách. Naši vedeckí pracovníci sa pravidelne stretávajú so študentami univerzít počas svojich prednášok. Lákame talentovaných študentov, aby si k nám prišli urobiť diplomové práce a tým, najlepším ponúkame možnosť doktorandského štúdia. Podporujeme našich študentov, aby realizovali zahraničné stáže, aktívne prezentovali svoje výsledky na medzinárodných vedeckých fórach a podieľali sa na medzinárodných projektoch.

E. Pripraviť schémy aktívneho prístupu na pomoc študentom pri výbere ich kariérneho rastu

Naším zámerom je ponúknuť širokú paletu vzdelávacích aktivít, ktoré profilujú študentov.

Vzdelávanie bude prebiehať prostredníctvom tzv. „Journal club“ prednášok, prednášok pozvaných špičkových odborníkov zo zahraničia, výukových seminárov (napr. bioštatistika) a vzdelávacích kurzov organizovaných SAV a zahraničnými inštitúciami.

Plánujeme pre nich zahraničné pobyty a stáže, ktoré im umožnia spoznať inú vedeckú komunitu, naučiť sa nové techniky a dokázať obhájiť svoje výsledky na medzinárodnej pôde. Študenti budú vysielaní na medzinárodné konferencie a budú aktívne vystupovať na študentských podujatiach.

F. Nastaviť postupy a ciele na podávanie patentov, ochranu IPR a licencovanie

Tejto problematike budeme zatiaľ venovať minoritnú pozornosť, vzhľadom na naše dlhoročné skúsenosti s patentovaním a limitovanou podporou štátu pri ochrane duševného vlastníctva. V tejto fáze budeme monitorovať všetky aktivity realizované na pôde SAV alebo prostredníctvom vládnych inštitúcií, ktoré sa budú venovať problematike duševného vlastníctva.

15. Iné významné činnosti organizácie

16. Poskytovanie informácií v súlade so zákonom o slobodnom prístupe k informáciám

Neuroimunologický ústav SAV, v. v. i. zverejňuje a poskytuje na vyžiadanie informácie v zmysle zákona č.211/2000 Z. z. o slobodnom prístupe k informáciám v znení neskorších predpisov (Zákon o slobode informácií).

Uved'te informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

Uved'te informácie v súlade so zákonom č. 211/2000 Z.z. o slobodnom prístupe k informáciám.

17. Problémy organizácie a podnety pre Predsedníctvo SAV k činnosti SAV ako celku

Neuroimunologický ústav SAV, v.v.i. patrí medzi najmladšie ústavy akadémie. Vznikol v porevolučných rokoch, ktoré vede nepriali. Je to jeden z dôvodov prečo má dlhodobu nízku limitu pre mzdové prostriedky, hoci sa počas posledných 20 rokov rozrástol a patrí medzi vedúce pracoviská zaoberajúce sa výskumom ochorení ľudského mozgu. Vo všetkých hodnoteniach tak dopláca na svoju mladosť a to aj napriek tomu, že kvalita dosahovaných výsledkov rastie každým rokom. Okrem základného výskumu realizuje aj aplikovaný výskum v spolupráci so slovenskými neurologickými klinikami a s Centrom MEMORY. Poskytujeme vyšetrenia biomarkerov pre Alzheimerovu chorobu, amyotrofickú laterálnu sklerózu, roztrúsenú sklerózu a spinálnu muskulárnu atrofiu. Dlhodobu nízku limitu na zamestnancov nám neumožňuje zvyšovať kapacitu našich aktivít, ktoré smerujú priamo do klinickej praxe a pomáhajú stovkám pacientov. Neuroimunologický ústav SAV je vlajkovou loďou slovenských neurovied, láka mladé vedecké talenty a vytvára tak pomyselnú hrádzu proti odlivu mozgov do zahraničia.

Uved'te informácie a podnety v súlade s názvom kapitoly.

Uved'te informácie a podnety v súlade s názvom kapitoly.

18. Vyjadrenia vedeckej rady organizácie k výsledkom výskumnej činnosti za uplynulý rok

V roku 2024 Neuroimunologický ústav SAV, v.v.i. publikoval **35 vedeckých publikácií, z toho 28 bolo publikovaných v kvartile Q1**. V prepočte na celoročný priemerný počet vedeckých pracovníkov, riešiteľov projektov (22,49) vychádza 1,5 publikácií na vedeckého pracovníka/rok. Podarilo sa udržať vysokú úroveň publikovaných prác, osem publikácií bolo nad IF>7:

Angew Chem Int Ed Engl. (IF=16,1)
J Neuroinflammation. (IF=9,3)
Cell Death and Disease (IF=8,1)
Alzheimers Res Ther. (IF=7,9)
Cellular and Molecular Immunology (IF=21,8)
Nucleic acid research (IF=16,6)
Science Traslational Research (IF=15,8)
Nat Commun. (IF=14,1)

NIU SAV, v.v.i. v roku 2024 zorganizoval **2 konferencie**, z toho 1 medzinárodnú, kde bol hlavným organizátorom a jednu národnú konferenciu, kde bol spoluorganizátorom.

V rámci spoluprác so zahraničnými vedeckými skupinami (hlavne vďaka projektom programu Horizon 2020) sa v roku 2024 výrazne zvýšila mobilita vedeckých pracovníkov a študentov, **viac ako 500 dní strávili naši pracovníci v zahraničí (Česko, Indonézia, Argentína)**. Vysoká kvalita vedeckej činnosti na NIU SAV v.v.i. sa prejavila veľkým záujmom o pobyt na našom ústave, takže kumulatívne **viac ako 1360 dní strávili zahraniční pracovníci a študenti na našom pracovisku (Argentína)**.

Ochorenia mozgu a ďalšie aktuálne problémy zdravia ľudskej populácie stáli v centre vedeckých aktivít NIU SAV v.v.i.. Svojou výskumnou činnosťou sa ústav etabloval ako žiadaný partner v medzinárodných konzorciách, čoho výsledkom je aj účasť **v 3 konzorciách EraNet** v rámci Horizont 2020, **1x H2020-MSCA-RISE, 1x Horizon Europe, 1x COST, 3x JPND a 2x ICGEB**.

V rámci národných projektov a grantových agentúr sme riešili **17 projektov APVV, 11 projektov VEGA, 2x PLAN OBNOVY** - Excelentná veda (Ukrajina), **PLAN OBNOVY 1x Excelentný výskumník, 1x Matching, 1 x Booster a 2 x R2**.

V priebehu roka 2024 bolo podaných **5 nových APVV projektov vo výzve MVP, 5 VEGA grantov, 1 x HU-rizont, 1 x INTERREG a 4 x HORIZON EUROPE: 1x MSCA, 1x ERC a 2x JPND**

Rastúca kvalita výskumu je podčiarknutá aj zvýšeným počtom ocenení študentských aktivít (cestovné granty, ocenenia prezentácií a posterov, doktogranty SAV). Celkovo sa študenti a vedecí pracovníci ústavu zúčastnili 18 konferencií a workshopov v zahraničí.

Na základe týchto výstupov vedeckej aktivity vedecká rada Neuroimunologického ústav SAV v.v.i. konštatuje, že ústav aktívne vykonáva výskumnú činnosť a naplňa zámery dlhodobého rozvoja organizácie.

Uvádzajte tu stručné rámcové hodnotenie výsledkov výskumnej činnosti schválené vedeckou radou organizácie a jej vyjadrenie k spôsobilosti organizácie vykonávať výskumnú činnosť.

Schválila vedecká rada organizácie SAV dňa 5.2.2025

Mgr. Branislav Kováčech, PhD.
predseda vedeckej rady

Výročnú správu o činnosti organizácie za rok 2024 vypracoval(i):

RNDr. Martin Čente, PhD., +421 2 5478 8100/405

Ing. Peter Horňák, +421 2 5478 8100/162

Dagmar Kutná, 02/32296126

Ing. Dominika Paulíková, 02/232 296 111

RNDr. Monika Žilková, PhD., +421 2 5478 8100/109

Bratislava, 7.2.2025

doc. MVDr. Norbert Žilka, DrSc.

riaditeľ organizácie

PRÍLOHY k časti A**Príloha A-1****Zoznam zamestnancov a doktorandov organizácie k 31.12.2024****Zoznam zamestnancov podľa štruktúry**

	Meno s titulmi	Úväzok (v %)	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci DrSc.			
1.	prof. MVDr. Mangesh Ramesh Bhide, PhD.	100	1.00
2.	prof. MVDr. Daša Čížková, DrSc.	90	0.90
3.	prof. Ing. Igor Jurišica, DrSc.	55	0.51
4.	prof. RNDr. Eva Kontseková, DrSc.	100	1.00
5.	prof. MUDr. Eva Syková, DrSc.	100	1.00
6.	doc. MVDr. Norbert Žilka, DrSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	Ing. Ondrej Cehlár, PhD.	100	1.00
2.	RNDr. Martin Čente, PhD.	100	1.00
3.	MVDr. Ľubica Fialová, PhD.	100	1.00
4.	doc. RNDr. Peter Filipčík, CSc.	100	1.00
5.	MUDr. RNDr. Dominika Fričová, PhD.	100	1.00
6.	Ing. Jozef Hanes, DrSc.	100	1.00
7.	MUDr. Mgr. Tomáš Hromádka, PhD.	75	0.75
8.	RNDr. Petra Chalťová, PhD.	100	0.16
9.	doc. PaedDr. Stanislav Katina, PhD.	25	0.25
10.	PharmDr. Andrej Kováč, PhD.	100	1.00
11.	Mgr. Branislav Kováček, PhD.	100	1.00
12.	Mgr. Nad'a Labajová, PhD.	100	0.25
13.	Mgr. Petra Majerová, PhD.	100	1.00
14.	MUDr. Petr Novák, PhD.	100	1.00
15.	doc. PharmDr. Juraj Piešťanský, PhD.	100	1.00
16.	MVDr. Mgr. Tomáš Smolek, PhD.	100	1.00
17.	RNDr. Rostislav Škrabana, PhD.	100	1.00
18.	RNDr. Monika Žilková, PhD.	100	1.00
Vedeckí pracovníci			
1.	MSc. Neha Basheer, PhD.	100	1.00
2.	doc. Natalia Borisovna Hryntsová, PhD.	100	0.75

3.	MVDr. Veronika Maté, PhD.	100	0.00
4.	PharmDr. Dominika Olešová, PhD.	50	0.50
5.	Ing. Gabriela Paulíková Roľková, PhD.	100	0.76
6.	Mgr. Karoline Pichlerová, PhD.	100	0.33
7.	PharmDr. Alena Polčík Michalicová, PhD.	100	0.33
8.	Mgr. Jakub Šinský, PhD.	100	1.00
9.	Mgr. Michaela Škrabanová, PhD.	70	0.70
10.	Ing. Natália Turic Csóková, PhD.	100	1.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	Ing. Peter Horňák	100	1.00
2.	Mgr. Karina Marková	100	1.00
3.	Dr. h. c. prof. MVDr. Michal Novák, DrSc.	70	0.70
4.	Ing. Pavol Novák, PhD.	100	1.00
5.	Mgr. Denisa Palová, PhD.	20	0.00
6.	MUDr. Vojtech Parrák	100	1.00
7.	Mgr. Katarína Tomková	100	1.00
8.	Mgr. Ľubica Wojčiaková	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Monika Hirmajerová	90	0.00
2.	Ing. Pavol Kováč	100	0.50
3.	Bc. Dana Kramplová	100	0.08
4.	Ing. Dominika Paulíková	100	0.08
5.	Mgr. Korina Tóthová	100	1.00
Odborní pracovníci ÚSV			
1.	Peter Holúbek	90	0.91
2.	Jana Jergušová	100	0.25
3.	Dagmar Kutná	100	1.00
4.	Stanislava Mandáková	100	1.00
5.	Jana Síthová	70	0.92
6.	Martin Szabo	100	1.00
7.	Marián Ťapka	100	1.00
8.	Jozef Végh	100	1.00
9.	Júlia Zakopčanová	100	1.00
Ostatní pracovníci			
1.	Mária Halásová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Samostatní vedeckí pracovníci			
1.	Amod Kulkarni, M.Sc., PhD.	31.5.2024	1.00
Vedeckí pracovníci			
1.	Olena Borysivna Lykhota, PhD.	28.2.2024	1.00
2.	MVDr. Ivana Uhrínová, PhD.	24.2.2024	0.00
Odborní pracovníci s VŠ vzdelaním (výskumní a vývojoví zamestnanci)			
1.	MVDr. Peter Neradil	2.4.2024	0.30
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Monika Petříková	10.12.2024	0.04

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hrazení z prostředků SAV			
1.	Mgr. Karolína Albertusová	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. Andrej Durgala	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Marián Horváth	Prírodovedecká fakulta UK	1536 biológia
4.	MSc. Kevin James	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
5.	MVDr. Krutika Khiratkar	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
6.	Mgr. Barbora Mesárošová	Prírodovedecká fakulta UK	1536 biológia
7.	MSc. Muhammad Khalid Muhammadi	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
8.	Mgr. Stefana Njemoga	Prírodovedecká fakulta UK	1536 biológia
9.	Mgr. Adam Polák	Prírodovedecká fakulta UK	1536 biológia
10.	MSc. Miraj Ud Din Momad	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
11.	MSc. Sivabalan Vairamuthu	Prírodovedecká fakulta UK	1536 biológia
12.	MUDr. Dorothy Wasike	Lekárska fakulta UK	1536 biológia
13.	MSc. Shahid Ullah Zadrán	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hrazení z iných zdrojov			
1.	Mgr. Katarína Martonová	Prírodovedecká fakulta UK	1536 biológia
Externí doktorandi			
<i>organizácia nemá externých doktorandov</i>			

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

	Meno s titulmi	Dátum obhajoby	Dátum prijatia	Úväzok (v %)
1.	MSc. Neha Basheer, PhD.	22.1.2023	1.1.2024	100
2.	Mgr. Karoline Pichlerová, PhD.	22.8.2024	1.9.2024	100

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha A-2

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Non-globular proteins in the era of Machine Learning

Zodpovedný riešiteľ:	Ondrej Cehlár
Trvanie projektu:	1.10.2022 / 31.10.2026
Evidenčné číslo projektu:	CA21160
Organizácia je koordinátorom projektu:	nie
Koordinátor:	University of Padova, Italy
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	0
	Podpora medzinárodnej spolupráce z národných zdrojov: 2729 €

Dosiahnuté výsledky:

V rámci projektu sa dvaja PhD študenti ústavu zúčastnili počítačového kurzu ML4NGP-REFRACT Training School on computational tools to study Non-globular Proteins v španielskej Carmone. Traja vedeckí pracovníci ústavu, dvaja PhD študenti a dvaja argentínski stážisti sa zúčastnili konferencie 2nd ML4NGP meeting on Machine Learning and Non-globular Proteins v gréckych Thessalonikách. Ďalej pokračujeme v spolupráci so skupinu Prof. V. Spiwoka z VŠCHT Praha v oblasti simulácií molekulovej dynamiky neusporiadaných proteínov.

Programy: ERANET

2.) Vývoj nových nanoliečiv proti bakteriálnym infekciám v centrálnom nervovom systéme

(Developing novel nanopharmaceutics against bacterial infections at center nervous system)

Zodpovedný riešiteľ:	Mangesh Ramesh Bhide
Trvanie projektu:	1.1.2022 / 31.12.2025
Evidenčné číslo projektu:	ENM III/2021/165
Organizácia je koordinátorom projektu:	nie
Koordinátor:	The Hebrew University of Jerusalem
Počet spoluriešiteľských inštitúcií:	8 - Francúzsko: 2, Izrael: 2, Poľsko: 2, Rumunsko: 2
Čerpané financie:	Horizont 2020: 25000 €

Dosiahnuté výsledky:

Nanoprotiátky (nAbs) sú malé fragmenty protilátok, u ktorých je plne zachovaná schopnosť väzby s antigénom. Ich malá veľkosť (~15kDa) im umožňuje prechádzať cez hematoencefalickú bariéru (HEB) ako v natívnom stave, tak aj po ich konjugácii s ligandom pre fransferínový receptor. Cieľom tohto projektu bola konjugácia nAbs s nanočasticami obsahujúcimi antimikrobiálne látky, a tým sa vytvoril systém transportujúci terapeutické látky priamo do centrálného nervového systému (CNS). V tomto projekte boli úspešne vyrobené nanosystémy, ktoré obsahujú antibiotiká a nAbs proti Neisseriám a Boréliám. Nanosystém je úspešne patentovaný. Vďaka tomuto projektu mal slovenský

partner možnosť prihlásiť sa do výzvy ERA-NET EURONANOMED, spoločnej nadnárodnej výzvy (JTC2021) pre „Európske projekty inovatívneho výskumu a technologického rozvoja v nanomedicíne“. Slovenský partner sa prihlásil do projektu v rámci tejto výzvy s partnermi z Francúzska, Poľska (rovnakí partneri z EURONANOMED2018-049), Rumunska a koordinátorom z Izraela.

3.) Neurovaskulárne poškodenie určuje patofyziológiu ochorenia u detských pacientov po traumatickom poškodení mozgu: zdroj nových biomarkerov (*Neurovascular damage determines disease pathophysiology in pediatric mild traumatic brain injury: source of new biomarkers*)

Zodpovedný riešiteľ: Peter Filipčík
Trvanie projektu: 1.1.2020 / 31.12.2025
Evidenčné číslo projektu: JTC2019: Neu-Vasc
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Bordeaux
Počet spoluriešiteľských inštitúcií: 4 - Kanada: 1, Nemecko: 1, Francúzsko: 2
Čerpané financie: 0

Dosiahnuté výsledky:

V spolupráci so zahraničnými partnermi prebiehajú analýzy animálneho predklinického modelu pediatrického mierneho poškodenia mozgu (pmTBI). Analýza ukázala dereguláciu špecifických cirkulujúcich miRNA molekúl v rôznych časoch po indukcií pmTBI v porovnaní s kontrolou.

Predikcia pomocou bioinformatických nástrojov pre identifikáciu miRNA:génových regulácii ukázala, že 5 deregulovaných miRNA je asociovaných s 938 génmi. Následná analýza obohatených signálnych dráh identifikovala 24 rôznych signálnych dráh, ktoré sú asociované s deregulovanými miRNA po pmTBI. Medzi objavenými dráhami boli signifikantne zastúpené procesy autofágie, polarizácie makrofágov, TGF β a neurotrofický signaling, odozva na poškodenie oxidatívnym stresom a regulácia cytoskeletu. Získané dáta poukazujú na špecifické cirkulujúce molekuly a molekulárne dráhy, ktoré sú spojené s miernym poškodením mozgu.

4.) Predisponujúce k chorobám alebo podporujúce odolnosť? Dekódovanie biológie systémov, markerov a determinantov bodu zlomu stresu (*Disease-predisposing or resilience-promoting? Decoding the systems biology and behavioural predictors and determinants of the tipping point of stress*)

Zodpovedný riešiteľ: Igor Jurišica
Trvanie projektu: 1.12.2023 / 30.11.2026
Evidenčné číslo projektu: NEURON II/2023/77
Organizácia je koordinátorom projektu: nie
Koordinátor: Leibniz Institute for Resilience Research
Počet spoluriešiteľských inštitúcií: 8 - Nemecko: 2, Estónsko: 2, Fínsko: 1, Švajčiarsko: 3
Čerpané financie: ERANET: 7141 €

Dosiahnuté výsledky:

V grante ERANET PROGRESS používame rôzne modely a spojili sme viaceré obory aby sme na molekulárnej úrovni detailne charakterizovali jednotlivé štádia a dynamiku udalostí spojenú so stresom. Výsledkom bude nie len charakterizovanie týchto procesov, ale aj identifikovanie biomarkerov na určenie kritických bodov, s prípadnou intervenciou. Úspešné dokončenie projektu

umožní včasnú predikciu bodu zlomu a personalizovanú stratifikáciu rizika. V konečnom dôsledku očakávame, že náš výskum pomôže transformovať modernú psychiatriu na vedu o prevencii. V Septembri sme mali prvé stretnutie konzorcia, v rámci 10 Medzinárodnej konferencie o výskume odolnosti. Okrem plánovania experimentov sme sa venovali aj analýze a interpretácii výsledkov z pilotnej štúdie, kde sme charakterizovali viaceré myšie línie s rôznou úrovňou vrodeneho správania súvisiaceho s úzkosťou. Oligodendrocyty a myelínom obohatú RNA sme sekvenovali použitím NextSeq 500 (Illumina). Identifikované miRNAs sme charakterizovali pomocou mirDIP, IID, Catrin a pathDIP aby sme vytvorili biologicky relevantné modely procesov, ktoré sú teraz v štádiu validácie.

Programy: Horizont 2020

5.) Integrative structural biology of pathological tau protein, an appealing therapeutic target for Alzheimer's disease modifying drugs (*Integrative structural biology of pathological tau protein, an appealing therapeutic target for Alzheimer's disease modifying drugs*)

Zodpovedný riešiteľ:	Rostislav Škrabana
Trvanie projektu:	1.6.2022 / 30.6.2025
Evidenčné číslo projektu:	873127
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Masarykova univerzita, Brno, ČR
Počet spoluriešiteľských inštitúcií:	8 - Argentína: 2, Česko: 2, Írsko: 2, Lotyšsko: 2
Čerpané financie:	Horizont 2020: 174021 € Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

V roku 2024 sa počet štážistov InterTAU na našom ústave zvýšil na jedenásť argentínskych vedcov, z toho štyria na pozícii samostatného vedeckého pracovníka a siedmi PhD študenti, v celkovej dobe 46 osobomesiacov (v roku 2024); päť pracovníkov a študentov Neuroimunologického ústavu SAV strávil v Argentíne spolu viac ako 14 mesiacov v priebehu roka, dvaja vedci boli na mesačných stážach v Indonézii a traja v Českej republike. Spolu sme zrealizovali 19 osobomesiacov pobytov na zahraničných pracoviskách. Finalizovali sme šesť spoločných vedeckých publikácií, štyri z nich boli uverejnené v medzinárodných recenzovaných časopisoch, jedna je v recenznom konaní a jedna v tlači.

Hlavným vedeckým prínosom pre NIU SAV ostáva internacionalizácia výskumného prostredia, rozvoj nových tém a získavanie odborných skúseností. Mimoriadne si ceníme fakt, že sme mohli argentínskym partnerom v konzorciu pomôcť zaviesť technológiu prípravy monoklonálnych protilátok na ich domovskom pracovisku. Považujeme to za čiastočné splatenie dlhu voči významnému argentínskemu vedcovi pôsobiacemu v Spojenom Kráľovstve, Césarovi Milsteinovi, laureátovi Nobelovej ceny za spomínanú technológiu, ktorý stál pri kolíske nášho ústavu a podporoval ho v období jeho zrodu v deväťdesiatych rokoch minulého storočia.

Nadviazanú spoluprácu plánujeme zúročiť v ďalšom spoločnom projekte, ktorý plánujeme pripraviť v roku 2025.

Basheer N, Muhammadi MK, Freitas CL, Avila M, Momand MUD, Hryntsova N, Smolek T, Katina S, Zilka N. TLR4-mediated chronic neuroinflammation has no effect on tangle pathology in a tauopathy mouse model. *Front Aging Neurosci.* 2024 Oct 21;16:1468602. doi: 10.3389/fnagi.2024.1468602. PMID: 39503044; PMCID: PMC11536299.

Cehlar O, Njemoga S, Horvath M, Cizmazia E, Bednarikova Z, Barrera EE. Structures of Oligomeric States of Tau Protein, Amyloid-?, ?-Synuclein and Prion Protein Implicated in Alzheimer's Disease, Parkinson's Disease and Prionopathies. *International Journal of Molecular Sciences.* 2024;

25(23):13049. <https://doi.org/10.3390/ijms252313049>

Kitoka K, Lends A, Kucinskas G, Bula AL, Krasauskas L, Smirnovas V, Zilkova M, Kovacech B, Skrabana R, Hritz J, Jaudzems K. dGAE(297-391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments. *Angew Chem Int Ed Engl*. 2024 Dec 2;63(49):e202407821. doi: 10.1002/anie.202407821. Epub 2024 Oct 22.

Basheer N, Buee L, Brion JP, Smolek T, Muhammadi MK, Hritz J, Hromadka T, Dewachter I, Wegmann S, Landrieu I, Novak P, Mudher A, Zilka N. Shaping the future of preclinical development of successful disease-modifying drugs against Alzheimer's disease: a systematic review of tau propagation models. *Acta Neuropathol Commun*. 2024 Apr 4;12(1):52. doi: 10.1186/s40478-024-01748-5. PMID: 38576010; PMCID: PMC10993623.

6.) Rukopis pre-motorického štádia amytrófnej laterálnej sklerózy (*A premotor disease signature for ALS*)

Zodpovedný riešiteľ:	Norbert Žilka
Trvanie projektu:	1.9.2022 / 31.8.2025
Evidenčné číslo projektu:	JPND2021-650-122
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Department of Neurology, Klinikum rechts der Isar der TU München
Počet spoluriešiteľských inštitúcií:	14 - Austrália: 1, Nemecko: 3, Francúzsko: 1, Švajčiarsko: 1, Izrael: 1, Poľsko: 3, Švédsko: 1, Turecko: 2, USA: 1
Čerpané financie:	JPND: 107236 € Podpora medzinárodnej spolupráce z národných zdrojov: 7188 €

Dosiahnuté výsledky:

Amyotrofná laterálna skleróza (ALS) je najčastejšie sa vyskytujúce ochorenie poškadzujúce motorické neuróny s devastujúcou prognózou. V súčasnosti trvá diagnostika ALS minimálne 12 mesiacov od objavenia sa prvých motorických príznakov a približne polovica pacientov je na začiatku nesprávne diagnostikovaná. Cieľom projektu PremodiALS je vytvoriť kohortu jedincov so zvýšeným rizikom vzniku ALS a pomocou moderných analytických postupov identifikovať potenciálne skoré biomarkery tohoto ochorenia. Hlavným cieľom v tomto roku bolo pokračovať v testovaní a validovaní postupov na spracovanie biologických vzoriek (plazma, CSF a moč) a jednotlivých analytických metód na meranie koncentrácie lipidov a iných metabolitov. Namerané výsledky boli následne štatisticky spracované a bola vykonaná bioinformatická analýza (Department of Neurology – Lingor Lab Rechts der Isar Hospital of the Technical University Munich). V nasledujúcom roku sa budú pomocou nami validovaných metód analyzovať vzorky z PremodiALS kohorty pacientov.

Programy: ICGEB

7.) Double-edged sword of Parkinson's disease: the study of extracellular vesicles as a mediator of pathology spreading and uniquesource of early diagnostics data

Zodpovedný riešiteľ:	Dominika Fričová
Trvanie projektu:	1.5.2023 / 30.4.2026
Evidenčné číslo projektu:	CRP/SVK22-04_Ec
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ICGEB: 2615 €

Dosiahnuté výsledky:

Tento projekt je sústredený na analýzu úlohy extracelulárnych vezikúl pri šírení Parkinsonovej choroby, ale aj ako cenného zdroja informácií pre včasnú diagnostiku pacientov s Parkinsonovou chorobou, ako aj ich lepšiu stratifikáciu. V prvom roku sme sa venovali optimalizácii stratégie tvorby bunkových línií s mutáciami v génoch súvisiacich s Parkinsonovou chorobou (SNCA, PINK1, Parkin, LRRK2, VPS35) v bunkách ReNcell VM. Momentálne stále pracujeme na verifikácii knock-outov týchto génov. Okrem toho sme detailne optimalizovali rôzne stratégie na izoláciu extracelulárnych vezikúl ako aj ich analýzu pomocou elektrónovej mikroskopie, Nanosight, farbenia a fluorescenčnej mikroskopie a Western blotu. Pripravili sme protokol na analýzu ich potenciálu prenosu patologického signálu do recipientných buniek. Navyše sme koncom roka izolovali miRNA z extracelulárnych vezikúl a prvýkrát poslali na sekvenačnú analýzu s cieľom analyzovať rozdiely v obsahu týchto regulačných molekúl v závislosti od prítomnosti patologickej mutácie. Aktuálne čakáme na výsledky a budeme pokračovať detailnou bioinformatickou analýzou týchto rozdielov. Výsledky projektu boli prezentované na troch zahraničných konferenciách.

8.) Lipid mediators and glial cells: key candidates for brain homeostasis (*Lipid mediators and glial cells: key candidates for brain homeostasis*)

Zodpovedný riešiteľ:	Petra Majerová
Trvanie projektu:	1.6.2024 / 31.5.2027
Evidenčné číslo projektu:	CRP/SVK23-01
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	ICGEB: 1265 € Podpora medzinárodnej spolupráce z národných zdrojov: 1667 €

Dosiahnuté výsledky:

Cieľom projektu je popísať mechanizmus, ktorým metabolizmus lipidov môže ovplyvniť a modulovať progresiu neurofibrilárnej patológie. Metabolizmus lipidov a produkcia špecializovaných lipidových mediátorov môže ovplyvňovať zápalové reakcie a vzájomnú interakciu gliálnych a neuronálnych buniek. V priebehu prvého roku realizácie projektu sme optimalizovali protokol na izoláciu imunitných buniek mozgu (astrocytov a mikroglií) z dospelých potkanov. Lipidom vyizolovaných buniek sme analyzovali pomocou necielenej lipidomickej analýzy s využitím hmotnostnej spektrometrie. Následne budú mikroglie izolované z mozgového tkaniva transgénnych potkanov. Pre tento účel použijeme potkaní model pre tauopatie charakteristický prítomnosťou neurofibrilárnej patológie v oblastiach mozgového kmeňa a frontálnej kôry. Zmeny produkcie lipidov budeme sledovať v rôznych štádiách tau patológie.

Programy: Horizont Európa

9.) Cielenie neurodegenerácie indukovanej západnou diétou (*Targeting Western Diet-Induced Neurodegeneration*)

Zodpovedný riešiteľ:	Neha Basheer
Trvanie projektu:	1.6.2024 / 31.5.2027
Evidenčné číslo projektu:	
Organizácia je koordinátorom projektu:	nie

Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: JPND: 98340 €

Dosiahnuté výsledky:

Cieľom tohto projektu je objasniť úlohu zvýšenia endogénneho agonistu TLR4, sfingomyelínu d18:1/14:0 (S14), sprostredkovaného západnou stravou, pri uľahčovaní propagácie Tau. V súlade s nami navrhovaným pracovným balíkom sme v roku 2024 úspešne zabezpečili schválenie našich pokusov na zvieratách od Štátnej veterinárnej správy a správy liečiv. V súčasnosti zväčšujeme kohorty zvierat, aby sme zabezpečili dostatočnú veľkosť vzorky na rozsiahle štatistické analýzy. Aby sme rekapitulovali patológiu Tau, izolovali sme a dôsledne charakterizovali nerozpustné Tau agregáty pochádzajúce z Alzheimerovej choroby. Analýza pomocou Western blotu potvrdila charakteristický vzor, elektrónová mikroskopia odhalila prítomnosť párových špirálových vlákien (PHF) a priamych vlákien (SF) a biosenzorové testy potvrdili účinnosť pri šírení agregátov Tau. Predbežné štúdie in vivo ďalej preukázali jeho schopnosť patologického šírenia. V rámci prípravy na následné experimentálne fázy máme štandardizované protokoly na analýzu vzoriek, aby sme zabezpečili metodologickú konzistentnosť a spoľahlivosť. Podávanie západnej stravy na zvieracích modeloch sa má začať v priebehu niekoľkých nasledujúcich mesiacov.

10.) Krátkodobý a dlhodobý mechanizmus multimodálnej intervencie pre prevenciu demencie
(*Shorter- and longer-term mechanisms of multimodal interventions to prevent dementia*)

Zodpovedný riešiteľ: Tomáš Smolek
Trvanie projektu: 1.4.2023 / 30.6.2026
Evidenčné číslo projektu: JPND2022-111
Organizácia je koordinátorom projektu: nie
Koordinátor: Neurology, Institute of Clinical Medicine, University of Eastern Finland
Počet spoluriešiteľských inštitúcií: 7 - Nemecko: 2, Španielsko: 2, Európska únia: 1, Holandsko: 2
Čerpané financie: JPND: 130960 €

Dosiahnuté výsledky:

Projekt v roku 2024 pokračoval podľa stanovených cieľov. Hneď v úvode roku sa nám podarilo vyhodnotiť experimenty zamerané na skúmanie vplyvu chronického zápalu u R3m4 myši vyvolaného dlhodobým opakovaným periférnym podávaním LPS na neurofibrilárnu tau patológiu a neurozápal v mozgu. Výsledky ukázali, že TLR4 sprostredkovaný chronický zápal mal výrazný vplyv na aktiváciu mikroglií a zmenu morfológických parametrov ako sú veľkosť tela mikroglií, rozvetvenie, hrúbku výbežkov a ich rádius. Naopak výrazný vplyv na tvorbu neurofibrilárnej tau patológie a hyperfosforyláciu sme nezaznamenali v porovnaní s kontrolami.

Ďalej nás zaujímal vplyv obohateného prostredia a diéty bohatej na prospešné tuky a vitamíny na šírenie tau patológie. V priebehu roka sme dostali pozitívnu odpoveď a povolenie zo Štátnej Veterinárnej a Potravinovej Správy SR (ŠVPSSR). Akonáhle sme dostali povolenie na experimenty, tak sme vytvorili podmienky pre obohatené prostredie, ktoré obsahovalo hračky, väčší priestor a zvýšenú socializáciu 20 jedincov pokope počas dňa a noci (od 15:00-7:00 hod) a potom sme ich premiestnili do klasických klieťok (od 7:00-15:00 hod). Navyše 1 skupina s obohateným prostredím dostávala aj špeciálne obohatené krmivo. Tretia skupina bola bez intervencie obohateného prostredia a krmiva. Všetkým 3 skupinám pred začiatkom intervencie boli podané intracerebrálne PHF izoláty z ľudských mozgov na indukciu tau patológie a šírenia v hipokampe. Momentálne sme zozbierali vzorky a pracujeme na vyhodnocovaní a analýzach, ktoré budú pokračovať aj v ďalšom roku.

Publikácie:

Basheer N, Muhammadi MK, Freites CL, Avila M, Momand MUD, Hryntsova N, Smolek T, Katina S, Zilka N. TLR4-mediated chronic neuroinflammation has no effect on tangle pathology in a tauopathy mouse model. *Front Aging Neurosci.* 2024 Oct 21;16:1468602. doi: 10.3389/fnagi.2024.1468602. PMID: 39503044; PMCID: PMC11536299.

Basheer N, Buee L, Brion JP, Smolek T, Muhammadi MK, Hritz J, Hromadka T, Dewachter I, Wegmann S, Landrieu I, Novak P, Mudher A, Zilka N. Shaping the future of preclinical development of successful disease-modifying drugs against Alzheimer's disease: a systematic review of tau propagation models. *Acta Neuropathol Commun.* 2024 Apr 4;12(1):52. doi: 10.1186/s40478-024-01748-5. PMID: 38576010; PMCID: PMC10993623

11.) Alzheimer's Disease Diagnostics Innovation and Translation to Clinical Practice in Central Europe

Zodpovedný riešiteľ:	Norbert Žilka
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	101087124 — ADDIT-CE
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Masarykova univerzita ČR
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Horizont Európa: 234284 € Podpora medzinárodnej spolupráce z národných zdrojov: 4313 €

Dosiahnuté výsledky:

V roku 2024 sme po prvý krát využili nový krvný biomarker ptau217 na testovanie ľudí v riziku vzniku demencie, v rámci skríningu dobrovoľníkov v klinickom skúšaní zameranom na klinické skúšanie nefarmakologických prístupov na oddialenie vzniku demencie. Vyšetrených bolo takmer 300 pacientov a približne 30% dobrovoľníkov spĺňalo kritéria pre predklinickú formu Alzheimerovej choroby. V rámci vývoja diagnostického testu sme navrhli tau peptidy, ktoré sme použili na imunizáciu zvierat. Začali sme budovať sieť klinických pracovísk zameraných na diagnostiku demencií, harmonizovali sme jednotlivé klinické postupy a získali schválenie od 9 etických komisií v siedmych slovenských mestách, ktoré je potrebné na výskum biomarkerov. Súčasťou projektu bola aj príprava reportu „D1.2 Preliminary Joint R&I Strategy“, ktorý mapuje súčasný stav výskumu biomarkerov pre Alzheimerovu chorobu a popisuje aktuálny stav diagnostiky demencie na Slovensku a pripravenosť na príchod nových liekov modifikujúcich ochorenie. Report vytvára podklad pre vzájomnú spoluprácu klinických odborníkov v Českej a Slovenskej republike.

Domáce projekty

Programy: VEGA

1.) K agregácii náchylná konformácia proteínu tau rozpoznateľná špecifickými protilátkami (*Aggregation prone conformation of protein tau targetable by specific antibodies*)

Zodpovedný riešiteľ:	Ondrej Cehlár
Trvanie projektu:	1.1.2023 / 31.12.2026
Evidenčné číslo projektu:	2/0125/23
Organizácia je koordinátorom projektu:	áno

Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7916 €

Dosiahnuté výsledky:

V rámci druhého roku riešenia projektu sme merali difrakčné dáta pre Fab fragment protilátky DC11 a jeho predpokladané komplexy s tau peptidom v priebehu dvoch meraní na synchrotrone PETRA III v Hamburgu. Z nameraných dát bola zatiaľ jedna štruktúra Fab fragmentu protilátky DC11 uložená do databázy PDB pod kódom 9H8H.

Ďalej sa v spolupráci s CEITEC MUNI Brno na ich NMR pracovisku merali NMR relaxačné rýchlosti pre ¹⁵N značený tau proteín tau297-391 a jeho komplex s Fab fragmentom protilátky DC11.

2.) Identifikácia nových biomarkerov a signálnych dráh po traumatickom poranení mozgu
(*Identification of novel biomarkers and signaling pathways after traumatic brain injury*)

Zodpovedný riešiteľ: Martin Čente
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0086/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 8896 €

Dosiahnuté výsledky:

Molekulárne analýzy periférnej krvi u športovcov po nárazoch do hlavy ukázali signifikantnú dereguláciu špecifických miRNA, tau a fosforylovaného tau proteínu. Bioinformatické porovnanie s kontrolnou skupinou identifikovalo kvantitatívne zmeny periférnych markerov a ich asociáciu s molekulárnymi procesmi spojenými s centrálnym nervovým systémom. Dosiahnuté dáta naznačujú, že podprahové, opakované nárazy do hlavy sú spojené s akútnou dereguláciou signálnych dejov v mozgu, pričom túto dereguláciu je možné sledovať pomocou citlivých molekulárnych metód v periférnej krvi. Okrem toho, bioinformatická analýza poukázala na panel nových proteínov, ktoré predstavujú novú skupinu s potenciálom kandidátnych biomarkerov pre diagnostiku a prognostiku úrazov hlavy v budúcnosti.

3.) Nové terapeutické ciele pre liečbu traumatického poškodenia mozgu a ich validácia v animálnom modeli chronickej neurodegenerácie
(*New therapeutic targets for treatment of traumatic brain injury and their validation in animal model of chronic neurodegeneration*)

Zodpovedný riešiteľ: Peter Filipčík
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0153/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9716 €

Dosiahnuté výsledky:

V roku 2024 sme pokračovali v analýze vybraných tkanív z poranenej aj z protil'ahlej strany mozgu (hipokampus, kortex, pons) kontrolných a transgénnych zvierat po indukovanom úraze hlavy, po tzv. "kontrolovanom kortikálnom impakte" (konvenčný kmeň „C57BL/ 6NCrI" vs. transgénne zvieratá exprimujúce skráteneý tau proteín v oblasti mozgového kmeňa). Časť vzoriek je už spracovaná, zvyšok je uložený na -80°C a priebežne sa analyzuje. Transgénne zvieratá nám súčasne slúžia ako model chronickej traumatickej encefalopatie (CTE), čo nám umožňuje sledovať prvotné zmeny patogenézy v periférnej krvi a podieľať sa tak na výskume biomarkerov pre CTE. Predmetom validačných štúdií bude kvantifikácia periférnych, nekódujúcich ribonukleových kyselín a následná bioinformatická analýza, ktorá je plánovaná na nasledujúce obdobie. Okrem toho sme sa podieľali aj na riešení projektov, ktoré sú tematicky príbuzné, ale sú financovaných inými grantovými agentúrami.

4.) Receptorom sprostredkovaný transport liečiv cez hematoencefalickú bariéru do mozgu (*Novel receptor-mediated delivery system for brain therapeutics*)

Zodpovedný riešiteľ: Andrej Kováč
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0078/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9032 €

Dosiahnuté výsledky:

V oblasti vývoja neuroterapeutík a ich transportu do mozgu bolo navrhnutých niekoľko postupov ako prekonať HEB. S cieľom vyvinúť neinvazívne, efektívne a účinné transportné systémy pre liečivá si zvýšenú pozornosť vyžaduje receptormi sprostredkovaný transport. Hlavným prínosom projektu bolo vytvorenie protilátok rozpoznávajúcich receptory na luminálnej strane endotelových buniek mozgových kapilár. Vytvorené Fab fragmenty a jednoreťazové protilátky voči receptoru LRP-8 rozpoznávali primárne potkanie endotelové bunky a kapiláry v rezoch mozgového tkaniva. Permeabilitné experimenty zároveň ukázali, že anti-LRP-8 protilátky boli schopné v porovnaní s kontrolnou protilátkou prechádzať cez in vitro model hematoencefalickej bariéry vo vyššej miere.

5.) Navrhovanie nanoterapeutík proti Západonílskemu vírusu - Ako model v boji proti neuroinfekciám (*Engineering the nano-therapeutics against West Nile virus- A model to contend neuroinfections*)

Zodpovedný riešiteľ: Amod Kulkarni
Trvanie projektu: 1.1.2021 / 31.12.2024
Evidenčné číslo projektu: 2/0128/21
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9033 €

Dosiahnuté výsledky:

Hlavným výstupom projektu je vývoj nanoprotilátok, klon NB A10, ktoré sú špecificky zamerané na receptorové väzbové miesta DIII obalového proteínu WNV (West Nile virus). Je pozoruhodné, že

NB A10 môže prerušiť interakciu medzi DIII obalovým proteínom WNV a mikrovaskulárnymi endotelovými bunkami ľudského mozgu. Ďalej, NB A10 je schopná neutralizovať WNV. Je dobre známe, že niekoľko antipatogénnych/terapeutických molekúl neprechádza cez HEB, čo bráni účinnosti vyvinutých terapeutík. Avšak na základe dosiahnutej 15% priechodnosti v „transwell“ modeli HEB predpokladáme, že NBA10 spojená s nanoterapeutikami na báze dendrimérov dokáže prechádzať cez HEB. Vyvinuté nanoterapeutikum je predovšetkým necytotoxické a farmakologicky bezpečné, ako bolo pozorované pri testovaní in vitro.

6.) Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie

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

Dosiahnuté výsledky:

Ako spolupracujúce pracovisko sme v roku 2024 koordinovali najmä práce na zisťovaní molekulovej štruktúry laktoferínu a jeho komplexov s väzobnými partnermi. Kryštály pripravené na Ústave molekulárnej biológie sme pripravili na difrakčnú analýzu za kryogénnych podmienok a testovali ich difrakčnú schopnosť na synchrotronovom zdroji žiarenia v EMBL DESY, Hamburg. Podarilo sa nám pre projekt získať merací čas celkovo v štyroch meraciach dňoch a zozbierali sme spolu viac ako päť kompletných difrakčných setov, s rozlíšením až 2,6 Angströmov. Všetky namerané dáta prislúchali molekule diferického ľudského laktoferínu, pripraveného rekombinantnou technológiou po heterológnej expresii v transgéennej ryži; ide o preparát dodávaný komerčne vo vysokej čistote. Do práce na kryštalizácii a určovaní štruktúry bol zapojený jeden PhD študent z UMB SAV a jedna diplomantka z NIU SAV.

7.) Lipidy a ich úloha v modulácii neurodegenerácie a neurozápalu (*Lipids as a tool to control neurodegeneration and neuroinflammation*)

Zodpovedný riešiteľ:	Petra Majerová
Trvanie projektu:	1.1.2024 / 31.12.2026
Evidenčné číslo projektu:	2/0075/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 3258 €

Dosiahnuté výsledky:

Mechanizmus akým metabolizmus lipidov môže ovplyvňovať a modulovať progresiu neurofibrilárnej patológie nebol ešte detailne popísaný. Cieľom projektu bude sledovať vplyv metabolizmu lipidov a špecializovaných lipidových mediátorov na zápal, ako i vzájomnú

komunikáciu gliálnych a neuronálnych buniek. Počas prvého roku riešenia projektu sme charakterizovali lipidom imunitných buniek mozgu - mikroglií a astrocytov po stimulácii tau proteínom. Na experimenty sme použili primárne bunkové kultúry izolované z mozgového tkaniva potkanov. Bunky boli inkubované s patologicky skrátenými formami proteínu tau. Jednotlivé triedy lipidov sme vo vzorkách stanovili pomocou necielenej lipidomickej LC-MS analýzy.

8.) Vplyv celkovej anestézie na dynamiku zmien markerov mozgového poškodenia pri operáciách kraniosynostóz v dojčenskom veku

Zodpovedný riešiteľ: Vojtech Parrák
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 1/ 0564/23
Organizácia je koordinátorom projektu: nie
Koordinátor: Lekárska fakulta UK
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4182 €

Dosiahnuté výsledky:

Problematika neurotoxicity anestetík patrí k najdiskutovanejším témam v pediatrickej anestéziológii, pretože otvára otázku bezpečnosti bežne používaných anestetík u detského pacienta. Cieľom práce je skúmať dynamiku zmien koncentrácií vybraných markerov mozgového poškodenia pri operáciách kraniosynostóz v celkovej anestézii u detí v dojčenskom veku za účelom optimalizácie perioperačného manažmentu a správneho načasovania operačného výkonu. Počas ďalšieho roku riešenia projektu sme pokračovali v odberoch klinických vzoriek plazmy, v ktorých sa následne analyzovali biomarkery poškodenia CNS ako sú neurofilament ľahký reťazec, proteín B viažuci vápnik S100 a enoláza špecifická pre neuróny (NSE) ako aj základné klinické parametre.

9.) Interakcia mozgu a čreva v podmienkach neurodegenerácie Alzheimerovho typu *(Interaction of the brain and intestine in conditions of Alzheimer's type neurodegeneration)*

Zodpovedný riešiteľ: Tomáš Smolek
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0127/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 10539 €

Dosiahnuté výsledky:

Projekt v roku 2024 nadviazal na predchádzajúce obdobie a pokračoval v plnení stanovených cieľov. V priebehu roka sme sa zamerali na 2. úlohy : 1.analýzu vzoriek čreva transgénnych samcov vo veku 5,5 mesiaca a príslušných kontrol z hľadiska mikrobiálneho zloženia - mikrobiómu. 2. Navodenie neurozápalu a zistenie vplyvu na tau patológiu. Prvotná analýza mikrobiómu dvoch typov vzoriek (vonkajšieho trusu - spodná časť čreva) a (céka - vrchná časť čreva) pomocou modernej metódy shot gun sekvenácie ukázala rozdiely medzi transgénnymi samcami s prítomnosťou tau patológie a kontrolami bez prítomnosti tau patológie v mozgovom kmeni jednak medzi skupinami ale aj medzi jednotlivými oblasťami obsahu čreva. Samozrejme v analýzach plánujeme pokračovať aj naďalej. Navodenie chronického zápalu pomocou periférneho viacnásobného podávania LPS transgénnym

modelom spôsobilo neurozápal v mozgu a výraznú aktiváciu mikroglií a zmenu morfológických parametrov, avšak na úrovni tau neurofibrilárnej patológie nedošlo k významným zmenám. Dosiahnuté výsledky sa pripravujú do publikačnej podoby a niektoré boli už publikované v zahraničných časopisoch a prezentované na konferenciách.

Publikácie:

Basheer N, Muhammadi MK, Freitas CL, Avila M, Momand MUD, Hryntsova N, Smolek T, Katina S, Zilka N. TLR4-mediated chronic neuroinflammation has no effect on tangle pathology in a tauopathy mouse model. *Front Aging Neurosci.* 2024 Oct 21;16:1468602. doi: 10.3389/fnagi.2024.1468602. PMID: 39503044; PMCID: PMC11536299.

Basheer N, Buee L, Brion JP, Smolek T, Muhammadi MK, Hritz J, Hromadka T, Dewachter I, Wegmann S, Landrieu I, Novak P, Mudher A, Zilka N. Shaping the future of preclinical development of successful disease-modifying drugs against Alzheimer's disease: a systematic review of tau propagation models. *Acta Neuropathol Commun.* 2024 Apr 4;12(1):52. doi: 10.1186/s40478-024-01748-5. PMID: 38576010; PMCID: PMC10993623

Smolek T, Vince-Kazmerova Z, Hanes J, Stevens E, Palus V, Hajek I, Katina S, Novak P, Zilka N. On the utility of cerebrospinal fluid biomarkers in canine neurological disorders. *Sci Rep.* 2024 Oct 15;14(1):24129. doi: 10.1038/s41598-024-73812-y. PMID: 39406773; PMCID: PMC11480401.

10.) Validácia a charakterizácia interakčných partnerov tau proteínu – významného hráča viacerých neurodegeneratívnych ochorení (*Validation and characterization of interaction partners of the tau protein – an important player in several neurodegenerative diseases*)

Zodpovedný riešiteľ:	Jakub Šinský
Trvanie projektu:	1.1.2024 / 31.12.2026
Evidenčné číslo projektu:	2/0146/24
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 9032 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu sa nám podarilo čiastočne naplniť dva ciele, a to menovite cieľ týkajúci sa validácie interakcií identifikovaných partnerov s tau proteínom pomocou ich koimunoprecipitácie z mozgových tkanív potkanov SHR72 exprimujúcich tau patológiu a ich vekovo príslušných kontrol bez tau patológie. Konkrétne sa nám podarilo takto zvalidovať z celkových 15 proteínov identifikovaných v Y2H systéme 6 proteínov: CHORDC1, NGLY1, IL1RAP, CACYBP, BLTP3B a NCAM1. Ďalej sme proteíny taktiež zvalidovali pre interakciu s tau proteínmi aj pomocou imunofluorescenčnej ko-lokalizácie v troch rôznych SH-SY5Y neuroblastómových líniiach: SH-SY5Y línia exprimujúca bazálne úrovne endogénneho tau proteínu, SY5Y-2N4R línia exprimujúca najdlhšiu ľudskú izoformu 2N4R tau proteínu a SY5Y-151 línia exprimujúca patologickú formu tau proteínu (aa 151-391/4R). Imunofluorescenčnou ko-lokalizáciou sme potvrdili nasledovné proteíny podľa jednotlivých línii: SH-SY5Y línia: CHORDC1 a NGLY1; SY5Y-2N4R línia: CHORDC1; a v línii SY5Y-151 sme potvrdili iba proteín NGLY1. V rámci plnenia druhého cieľa sme navrhli príslušné primery pre jednotlivé proteíny, začali sme s ich PCR amplifikáciou z ľudskej cDNA a ich prípravou na klonovanie do expresného vektora pre CHO cicavčí expresný systém.

11.) Vplyv špecifickej štruktúry filamentov tau proteínu na indukciu periférnych biomarkerov pre diagnostiku chronickej traumatickej encefalopátie a ďalších tauopatií (*Specific structure of tau protein filaments as triggers of diagnostic peripheral biomarkers for diagnostic of chronic*

traumatic encephalopathy and other tauopathies)

Zodpovedný riešiteľ: Rostislav Škrabana
Trvanie projektu: 1.1.2023 / 31.12.2026
Evidenčné číslo projektu: 2/0141/23
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9049 €

Dosiahnuté výsledky:

Zamerali sme sa na detailné štúdium štruktúry amyloidných filamentov tau a iných bielkovín pri ľudských ochoreniach. Objavili sme doteraz nepozorovaný intermediát pri tvorbe filamentov z rekombinantného tau proteínu za podmienok vzniku CTE-podobných filamentov a publikovali výsledky v medzinárodných časopisoch.

Cehlar O, Njemoga S, Horvath M, Cizmazia E, Bednarikova Z, Barrera EE. Structures of Oligomeric States of Tau Protein, Amyloid- β , α -Synuclein and Prion Protein Implicated in Alzheimer's Disease, Parkinson's Disease and Prionopathies. International Journal of Molecular Sciences. 2024; 25(23):13049. <https://doi.org/10.3390/ijms252313049>

Kitoka K, Lends A, Kucinskas G, Bula AL, Krasauskas L, Smirnovas V, Zilkova M, Kovacech B, Škrabana R, Hritz J, Jaudzems K. dGAE(297-391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments. Angew Chem Int Ed Engl. 2024 Dec 2;63(49):e202407821. doi: 10.1002/anie.202407821. Epub 2024 Oct 22.

12.) Vplyv gliových buniek na šírenie tau patológie v neuro-gliovom bunkovom modeli pre Alzheimerovu chorobu (*The effect of glial cells on tau spreading in neuro-glia cell-based model for Alzheimer's disease*)

Zodpovedný riešiteľ: Monika Žilková
Trvanie projektu: 1.1.2022 / 31.12.2024
Evidenčné číslo projektu: 2/0134/22
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 9306 €

Dosiahnuté výsledky:

V rámci riešenia projektu sa nám podarilo vyvinúť dve neuro-gliové bunkové platformy modelujúce patologické procesy v AD. Model pre šírenie tau patológie umožňuje testovať látky s terapeutickým potenciálom inhibovať šírenie tau. V tomto modeli sme úspešne otestovali anti-tau protilátku AX004, ktorá inhibovala prestup patologického tau z neurónu na neurón a zároveň potencovala spracovanie patologického tau mikrogliou. Druhý bunkový systém modelujúci interakciu tau patológie a neurozápalu umožňuje testovať látky s potenciálom inhibovať tau fosforyláciu. Ďalším dôležitým výsledkom projektu bolo publikovanie nových poznatkov o tvorbe fibríl tau proteínu. Zistili sme, že malý podiel fibríl z krátkej formy tau je schopný účinne indukovať agregáciu dlhej formy tau a propagovať tak patologickú premenu. Takto získané fibrily sú schopné šíriť patológiu v neuro-gliovom bunkovom modeli a majú podobnú štruktúru s konformáciou tau fibríl izolovaných z mozgu pacientov trpiacich tauopátiami.

Programy: APVV

13.) Celospoločenský dopad úrazov mozgu v Slovenskej Republike (*Whole-of-societal Impact of Traumatic Brain Injuries in Slovakia*)

Zodpovedný riešiteľ:	Martin Čente
Trvanie projektu:	1.7.2023 / 30.6.2026
Evidenčné číslo projektu:	APVV-22-0613
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Trnavská univerzita v Trnave - Fakulta zdravotníctva a sociálnej práce
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 19197 €

Dosiahnuté výsledky:

V roku 2024 sa začali prípravy na zistenie celoživotnej prevalencie TBI v populácii SR, čo je jedným z výskumných cieľov projektu. Nakoľko neexistuje slovenská verzia tejto metodiky, tak je potrebné pripraviť štandardizovaný dotazník, ktorý by sa dal použiť na tieto účely. V rámci riešenia projektu prebieha komunikácia s autormi originálneho dotazníka pre identifikáciu otrasov mozgu, jeho preklad, revízia a schvaľovací proces. Po finalizácii bude slovenská verzia použitá na zistenie celoživotnej prevalencie TBI v populácii SR. Okrem toho v rámci projektu prebiehajú molekulárne analýzy zamerané na detekciu markerov poškodenia mozgu vo vzorkách profesionálnych športovcov po nárazoch do hlavy. Stanovenie celkového tau, a fosforylovaných foriem tau ukázalo, že nárazy do hlavy sú asociované s so zvýšenými hladinami týchto neuroproteínov. Dosiahnuté výsledky sú v súčasnosti v recenznom konaní pred publikovaním.

14.) Manažment rizík poranenia mozgu u hráčov kontaktných športov – diagnostika a prevencia neurodegenerácie (*Management of Brain Injury Risks in Contact Sport Players - Diagnosis and Prevention of Neurodegeneration*)

Zodpovedný riešiteľ:	Peter Filipčík
Trvanie projektu:	1.7.2023 / 30.6.2026
Evidenčné číslo projektu:	APVV-22-0470
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Fakulta telesnej výchovy a športu UK
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 32756 €

Dosiahnuté výsledky:

Najdôležitejšou aktivitou v rámci riešenia projektu v roku 2024 bol zber údajov od bývalých hokejových a futbalových hráčov. Pripravili sme kompletnú databázu, ktorá obsahuje mená hráčov, ktorý boli aktívni na profesionálnej úrovni v rokoch 1950 až 2010. Zozbierali sme anamnestické údaje od prvých skupín profesionálnych hráčov. Účastníci štúdie sa zúčastnili zimných olympijských hier, majstrovstiev sveta a iných súťaží na vysokej úrovni. Anamnestické údaje boli zbierané pomocou ankety zameranej na záznam histórie úrazov hlavy. Použitý dotazník je kompatibilný s tým, ktorý sme použili v našom predchádzajúcom vyšetrovaní a bol prispôbený ľuďom v pokročilom veku. Dáta z kohorty účastníkov výskumu sme rozvrstviли podľa veku a dĺžky kariéry a štatisticky

spracovali. Laboratórne experimenty pokračovali v roku 2024 podľa vopred stanoveného plánu. Vplyv „in-vitro“ vytvorených agregátov na ľudské bunky je predmetom výskumu pokračujúceho v roku 2025.

15.) Molekulové dráhy indukované traumatickým poškodením mozgu: identifikácia nových biomarkerov a potenciálnych terapeutických cieľov pre neurodegeneráciu (*Molecular pathways induced by traumatic brain injury: novel biomarkers and prediction of new therapeutic targets for neurodegeneration*)

Zodpovedný riešiteľ: Peter Filipčík
Trvanie projektu: 1.7.2021 / 30.6.2024
Evidenčné číslo projektu: APVV-20-0615
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 18356 €

Dosiahnuté výsledky:

Hlavným cieľom práce v poslednom roku riešenia projektu bola kvantifikácia hladín celkového a fosforylovaného tau proteínu, a to pred a po miernom asymptomatickom otrase hlavy u žien. Sledovali sme zmeny expresie mikroRNA a vykonali sme kognitívne testy pred a po záťaži. Experimentálna schéma bola podobná tej, ktorú sme použili v prípade výskumu na mužoch v experimentoch vykonaných v rokoch 2021 a 2022. Tentokrát sme však stanovili aj hladiny tau proteínu fosforylovaného na epitope treonín217. Podľa najnovších štúdií je tau proteín fosforylovaný na tomto mieste asociovaný s procesmi prebiehajúcimi v predklinickej fáze neurodegenerácie Alzheimerovho typu. Vzhľadom k tomu, že test na kvantifikáciu tejto formy tau je komerčne dostupný iba od januára 2024, sú naše výsledky úplne nové a predpokladáme, že budú pre vedeckú komunitu zaujímavé. Zistili sme, že hladiny pT217 sú štatisticky výrazne zvýšené aj po samotnom cvičení, čo je prekvapujúca informácia. Dôležité však je, že pomer fosforylovaného a celkového tau proteínu zostáva špecificky zvýšený iba po miernom asymptomatickom otrase hlavy.

16.) Šírenie patológie asociovej s alfa-Synukleínom naprieč orgánmi gastrointestinálneho traktu v myšom modeli a pacientov s Parkinsonovou chorobou (*Spread of alpha-Synuclein-associated pathology across gastrointestinal organs in a mouse model and patients with Parkinson's disease*)

Zodpovedný riešiteľ: Dominika Fričová
Trvanie projektu: 1.7.2021 / 30.6.2024
Evidenčné číslo projektu: APVV-20-0331
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 32918 €

Dosiahnuté výsledky:

V projekte sa venujeme skúmaniu šírenia patológie spojenej s proteínom alfa-synukleín. V predošlom roku sme vytvorili unikátny bunkový modelový systém pre detailný popis molekulárnych dráh súvisiacich so šírením patológie spojenej s alfa-synukleínom a to línie SHSY5Y so stabilnou

nadexpresiou alfa-synukleínu, ktorý je fúzovaný s GFP. Tento fluorescenčný marker nám umožnil rozdeliť bunky s nadexpresiou alfa-synukleínu do skupín s : (i) bunky s nízkou a (ii) vysokou nadexpresiou alfa-synukleínu. Aby sme rozšírili naše poznatky, pripravili sme bunky aj s toxickejšou formou alfa-synukleínu so zámenou aminokyselín A53T. Následne sme bunky podrobili analýze expresie (qPCR, Western blot, imunocytochémia) a meraniu dopadu nadexpresie týchto variantov alfa-synukleínu na prežívanie buniek.

Okrem pokračovania v analýze biologického efektu alfa-synukleínu v takto vytvorených bunkových líniiach sme pripravili bunky s rovnakými alteráciami alfa-synukleínu v bunkovej línii ReNcell VM, ktorá umožňuje tvorbu dopamínerných neurónov, ktoré sú priamo spojené s patológiou Parkinsonovej choroby. Naše analýzy sme rozšírili o detailné porovnanie vplyvu alfa-synukleínu na mitochondrie a produkciu reaktívnych foriem kyslíka. Naše výsledky odhalili rôzne posttranslačné modifikácie alfa-synukleínu nie len v závislosti od jeho hladiny, typu alebo aj od typu buniek. Okrem tejto časti projektu sme sa naďalej venovali optimalizácii metódy RT-QuIC zameranej na kvantifikáciu alfa-synukleínu vo vzorkách pacientov. Naše výsledky sme publikovali v dvoch publikáciách a prezentovali na troch zahraničných konferenciách.

17.) Nový receptorom sprostredkovaný systém pre transport liečiv do mozgu (*Novel receptor-mediated delivery system for brain therapeutics*)

Zodpovedný riešiteľ:	Jozef Hanes
Trvanie projektu:	1.7.2022 / 30.6.2025
Evidenčné číslo projektu:	APVV-21-0254
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 80034 €

Dosiahnuté výsledky:

Keďže sme voči potkaniu Angulin 1 proteínu nedostali žiadnu imunitnú odpoveď v myšiach, zvolili sme stratégiu produkcie alternatívneho Angulinu 1, ktorý bol odvodený od aminokyselinovej sekvencie rybieho ortológu (*Haplochromis burtoni*). Tiež sme naprodukovali podobnou stratégiou Angulin 3 (tiež odvodený od *Haplochromis*). Proteíny boli naprodukované v ExpiCHOTM bunkách, vypurifikované a pristúpili sme k imunizácii myší, ktorá momentálne ešte prebieha. Z predošlej produkcie sa nám podarilo získať iba jednu bunkovú hybridómovú líniu rozpoznávajúcu potkaní proteín LRP8 (LRP8cl9). Hoci táto protilátka špecificky farbila endotelové bunky, bola IgM izotyp, a preto sme sa rozhodli pripraviť ďalšie protilátky voči LRP8. Po imunizácii sa urobili viaceré fúzie, avšak, nepodarilo sa nám pripraviť IgG protilátky. Preto sme LRP8cl9 protilátku ďalej testovali na schopnosť transportovať liečivá do mozgu. Keďže IgM bola priveľká na tento účel, pripravili sme Fab fragment tejto protilátky, ako aj ScFv fragment a v súčasnosti prebiehajú testy.

18.) Analýza psychoneuroimunologických parametrov zdravia vo vybraných skupinách slovenskej populácie (*Analysis of Psychoneuroimmunological Parameters of Health in Specific Population Groups in Slovakia*)

Zodpovedný riešiteľ:	Eva Kontseková
Trvanie projektu:	1.7.2023 / 30.6.2027
Evidenčné číslo projektu:	APVV-22-0160
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Lekárska fakulta UK

Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 39238 €

Dosiahnuté výsledky:

Projekt má za cieľ skúmať vzťah medzi psychickou a biologickou imunitou z pohľadu psychológie, epidemiológie a imunológie na vzorke všeobecnej populácie, ako aj na špecifickej skupine ľudí liečených zo závislosti na alkohole. Výsledky výskumu generované realizovaným projektom by mohli poskytnúť hlbší pohľad na vzťah medzi psychickou a biologickou imunitou.

V druhom roku projektu sme zozbierali plánované vzorky krvi všetkých účastníkov projektu (317 vzoriek všeobecnej populácie z Bratislavského kraja, 149 vzoriek z Banskobystrického kraja a 121 vzoriek z Košického kraja). Následne sme vzorky krvi jednotlivých dobrovoľníkov podrobili analýze cytokínového profilu. Momentálne prebieha štatistická analýza získaných výsledkov, ktorú budeme následne korelovať so psychologickou imunitou. Ďalšiu študijnú skupinu 125 dobrovoľníkov tvorila špecifická skupina ľudí, ktorá sa podrobila liečbe závislosti od alkoholu. Týmto pacientom sme odoberali krv pred terapiou a po terapii a zber vzoriek sme ukončili koncom decembra. Po analýze hladín cytokínov, ktorú plánujeme začiatkom roka 2025, budeme pokračovať v štatistickej analýze získaných cytokínových profilov jednotlivcov pred a po terapeutickú intervenciu.

19.) Longitudinálne monitorovanie adaptívnej imunity po infekcii SARS-CoV-2 a očkovaní: markery imunity (*Longitudinal monitoring of adaptive immunity after SARS-CoV-2 infection and vaccination: markers of immunity*)

Zodpovedný riešiteľ: Eva Kontseková
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0478
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 82485 €

Dosiahnuté výsledky:

V tomto roku sme sa venovali štatistickému spracovaniu množstva výsledkov s cieľom publikovať dáta zamerané na sledovanie vplyvu imunodeficiencie na SARS-CoV-2 indukovanú imunitnú odpoveď u detí. V našej štúdii sme zistili, že aj deti so závažnými poruchami imunity sú schopné izotypového prešmyku na vysokoafinitné protilátky IgG, ktoré sú nositeľmi efektorových funkcií brániacich organizmus pred vírusovou infekciou viacerými od protilátky závislými mechanizmami. Deti, ktoré majú poruchu v tvorbe protilátok sú schopné vyvinúť bunkový typ odpovede (Spike-špecifické CD4 T-bunky) a kompenzovať tak deficit Spike-špecifických protilátok bunkovou imunitou. Výsledky štúdie zameranej na vzťah imunodeficiencie a imunitnej odpovede sú predmetom pripravovanej publikácie: Impact of immunodeficiency on immunity induced by SARS-CoV-2 vaccination, by SARS-CoV-2 infection and by the combination of both in children and adolescent (J Allergy Clin Immunol). Zároveň sme pokračovali v spracovaní dát longitudinálnej analýzy imunitnej odpovede indukovanej vírusovou infekciou a očkovaním (vakcíny Pfizer/Biontech, Moderna, AstraZeneca) voči SARS-CoV-2 u dospelých jedincov. Zistili sme zvýšený podiel IgG4 protilátok v skupine očkovaných jedincov oproti skupine infikovaných. Tento zaujímavý výsledok sme sa rozhodli potvrdiť aj na úrovni cytokínov.

20.) Štúdium mechanizmu pohybu tau proteínu v CNS (*Mechanism of tau protein movement through and out of the brain*)

Zodpovedný riešiteľ: Andrej Kováč
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0321
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 52949 €

Dosiahnuté výsledky:

Počas ďalšieho roku riešenia projektu sme sledovali vplyv tau proteínu a neurofibrilárnej patológie na zápalové zmeny epitelových buniek choroidného plexu. Sledovali sme, či uvedené zmeny môžu stimulovať transport imunitných buniek z krvi do mozgového tkaniva a ovplyvňovať progresiu tau patológie. Pre tento účel sme využili animálny model charakteristický prítomnosťou neurofibrilárnej patológie vo frontálnej kôre. Zároveň sme optimalizovali separácie modelových zmesí izoforiem tau proteínov s využitím hydrofóbnej chromatografie. Nami zavedená metóda bude využitá pri analýze izoforiem izolovaných z biologického materiálu.

21.) 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
Zodpovedný riešiteľ v organizácii SAV: Rostislav Škrabana
Trvanie projektu: 1.8.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0513
Organizácia je koordinátorom projektu: nie
Koordinátor: Ústav molekulárnej biológie SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 6228 €

Dosiahnuté výsledky:

V roku 2024 sme dokončili skúmanie mechanizmu vzniku komplexov medzi rôznymi fragmentami Spike proteínu a ľudským rekombinantným laktoferínom. Ukázalo sa, že laktoferín sa viaže pomocou svojej N-koncovej laktofericinovej časti na RBD doménu Spike proteínu SARS-CoV-2. Tieto výsledky boli publikované v časopise *Pharmaceuticals*. V príprave kryštálov komplexov laktoferínu sme zatiaľ neboli úspešní ani po proteolytickom odstránení flexibilných purifikačných tagov RBD, no podarilo sa nám vyriešiť štruktúru čistého laktoferínu. Ide o prvú štruktúru rekombinantného laktoferínu exprimovaného v rastlinnom expresnom systéme. Štruktúra objasnila glykozylačný vzorec tejto formy a obsahuje nezvyčajne dlhý polysacharidový reťazec. Jej znalosť je dôležitá z hľadiska rozšíreného využívania tejto formy laktoferínu v potravinových doplnkoch a iných prípravkoch. V ďalšej práci porovnáme štruktúru so štruktúrou laktoferínov izolovaných z mlieka a iných telových tekutín, ktoré sú opísané v literatúre.

Babulic P, Cehlar O, Ondrovičová G, Moskalets T, Skrabana R, Leksa V. Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. *Pharmaceuticals* (Basel). 2024 Aug 4;17(8):1021. doi: 10.3390/ph17081021. PMID: 39204126; PMCID: PMC11357225.

22.) Nový pohľad na mechanizmus tauopatií: lipidy ako nástroj na kontrolu procesu neurodegenerácie a neurozápalu (*Novel insights into Tauopathy mechanism: lipids as a tool to control neurodegeneration and neuroinflammation*)

Zodpovedný riešiteľ: Petra Majerová
Trvanie projektu: 1.7.2023 / 30.6.2026
Evidenčné číslo projektu: APVV-22-0313
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 90064 €

Dosiahnuté výsledky:

V ďalšej fáze riešenia projektu sme sa venovali charakterizácií mikroglií akumulujúcich lipidové guľičky po stimulácii patologicky skrátenou formou tau proteínu. Pomocou imunocytochémie sme sledovali bunky pozitívne na nepolárne triedy lipidov a mastné kyseliny. Zistili sme, že po pridaní tau proteínu mikroglie akumulovali predovšetkým nepolárne lipidy tvoriace lipidové guľičky. S cieľom zistiť, ktoré proteíny môžu ovplyvňovať metabolizmus lipidov boli bunkové lyzáty analyzované pomocou necielenej proteomickej analýzy s využitím hmotnostnej spektrometrie. Zmeny expresie proteínov boli sledované v kontrolných a tau-stimulovaných bunkách. Získané dáta boli štatisticky vyhodnotené. Následne boli identifikované proteíny, ktoré by mohli ovplyvňovať metabolizmus lipidov v tauopatiách.

23.) Určenie úlohy dopamínu a neurogenézy v dospelosti pre naučené správanie spevavcov pomocou optogenetickej manipulácie (*Examining the role of dopamine and adult neurogenesis in learned behavior of songbirds using optogenetic manipulation*)

Zodpovedný riešiteľ: Ľubica Niederová-Kubíková
Zodpovedný riešiteľ v organizácii SAV: Tomáš Hromádka
Trvanie projektu: 1.7.2021 / 30.6.2025
Evidenčné číslo projektu: APVV-20-0344
Organizácia je koordinátorom projektu: nie
Koordinátor: Centrum biovied SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 15429 €

Dosiahnuté výsledky:

Experimentálna časť projektu sa venovala predovšetkým ovplyvneniu neurogenézy u väčšieho počtu samcov pestúcky japonskej. Jedincom bol podávaný memantín pre zvýšenie bunkového delenia, temozolomid pre zníženie bunkového delenia alebo kontrolný fyziologický roztok. Po stanovení optimálnych dávok podávaných látok sme vyhodnocovali efekt podávaných látok na proliferáciu buniek v neurogénnej zóne, ako aj na variabilitu spevu. Analytická časť projektu sa sústredila na pokračujúcu analýzu dát z optogenetických experimentov zameraných na štúdium úlohy inhibičných interneurónov.

24.) Longitudinálne pozorovanie neurodegenerácie a korelátov relevantných ukazovateľov v

Ach (*Longitudinal Assessment of Neurodegeneration and the Correlates of Relevant Endpoints in AD*)

Zodpovedný riešiteľ: Petr Novák
Trvanie projektu: 1.7.2021 / 30.6.2024
Evidenčné číslo projektu: APVV-20-0447
Organizácia je áno
koordinátorom projektu:
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 41092 €

Dosiahnuté výsledky:

V rámci projektu bola набraná rozsiahla kohorta pacientov, ktorá prispela k vyhodnoteniu diagnostickej utility širokej škály testov. Táto kohorta tiež poslúžila ako pilotný projekt a štúdia prevediteľnosti klinického výskumu Alzheimerovej choroby na európskej úrovni na Slovensku. Projekt tiež položil základy pre celoslovenské konzorcium, a vytvoril jednotný klinický protokol, informovaný súhlas a postupy pre zber, spracovanie a analýzu vzoriek, a centrálna databáza pre vedecké údaje.

Ide o prvý počín tohto druhu na Slovensku a dá sa predpokladať, že v blízkej budúcnosti dá vzniknúť celoslovenskej kohorte pacientov s MKP a ACh, ktorá bude výnimočne hodnotná pre epidemiologický výskum, ako i vývoj diagnostiky, longitudinálne sledovanie progresie ochorenia jednotlivých pacientov, a výskum ACh ako takej. Projekt APVV-20-0447 bol prepojený na projekt HARMONY, aby sa zaručila kontinuita výskumných aktivít. V rámci projektu bola vytvorená slovenská verzia aktuálnej kognitívnej batérie cUDS, slovenské verzie ďalších kognitívnych testov a dva elektronické kognitívne testy, pričom jeden je slovenskou adaptáciou existujúceho testu a jeden je novo vyvinutý. Týmto projekt výrazne prispel k rozšíreniu repertoáru kognitívnych testov dostupných slovenským neuropsychológom, a k harmonizácii kognitívneho hodnotenia na Slovensku.

25.) Komunikačná os medzi mozgom a črevom v priebehu tvorby tau neurofibrilárnej patológie u Alzheimerovej choroby: Môže byť imunitný systém mediátorom tohto procesu? (*Gut-Brain Axis communication during formation of tau neurofibrillary pathology in Alzheimer's disease: Is the immune system mediator of this process?*)

Zodpovedný riešiteľ: Tomáš Smolek
Trvanie projektu: 1.9.2024 / 30.6.2027
Evidenčné číslo projektu: APVV-23-0420
Organizácia je áno
koordinátorom projektu:
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 16172 €

Dosiahnuté výsledky:

V prvom polroku projektu sme postupovali podľa stanoveného plánu a začali sme s charakterizáciou mikrobiálneho zloženia transgénneho modelu, ktorý exprimuje 3 R skrátenú formu ľudského tau proteínu. Zozbierali sme vzorky rôznych oblastí čreva u samcov a samíc v rôznych vekoch. Takisto sme zozbierali vzorky krvnej plazmy, sleziny a mozgu. Jednotlivé vzorky momentálne spracovávame a analyzujeme. V ďalšom roku by sme chceli začať testovanie vhodnými doplnkami stravy,

probiotikami prípadne zmenou prostredia, čo by mohlo modulovať mikrobióm a následne mať vplyv na periférny imunitný systém a neurodegeneračný proces.

26.) Vplyv perineuronálnych sietí a difúznej extracelulárnej matrix na šírenie tau patológie pri Alzheimerovej chorobe (*The impact of perineuronal nets and diffuse extracellular matrix on the propagation of tau pathology in Alzheimer's disease*)

Zodpovedný riešiteľ: Eva Syková
Trvanie projektu: 1.7.2024 / 30.6.2027
Evidenčné číslo projektu: APVV-23-0436
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 27937 €

Dosiahnuté výsledky:

Perineuronálne siete (PNN) a difúzna extracelulárna matrix (dECS) tvoria 2 formy extracelulárnej matrix (ECM). Obidve formy majú dôležitú úlohu vo vývoji mozgu, neuroplasticite, poškodení CNS a progresie neurodegenerácie. Výsledky v rámci projektu ukázali, že narušením PNN 2 mesačným orálnym podávaním 4-methylumbelliferone (4-MU) dochádza k inhibícii stavebných prvkov ECM (hyaluranu, chondroitínu, proteoglykanov) a k atrofii astrocytov. Toto narušenie je však reverzibilné po vysadení 4-MU. Navyše zväčšenie extracelulárneho priestoru zvyšuje synaptickú plasticitu, zlepšuje a zefektívňuje transport iónov, neurotransmiterov a neuroaktívnych látok v mimobunkovom priestore, čo zabezpečuje lepšiu medzibunkovú komunikáciu. Práve preto sme sa v ďalšej fáze zamerali na skúmanie vplyvu narušenej PNN na šírenie tau patológie po inokulácii PHF tau izolovaných z mozgu ľudských pacientov s Alzheimerovou chorobou. Pred podávaním 4-MU sme transgénny animálny model injikovali do mozgu PHF tau izoláty vo veku 3 mesiacov a následne sme začali s denným perorálnym podávaním 4-MU vo forme krmiva. V 5,5 mesiacoch sme zvieratám odobrali vzorky mozgu a spracovali na histologickú analýzu. Momentálne pracujeme na vyhodnocovaní experimentov a príprave výsledkov do publikovateľnej podoby, v čom budeme pokračovať aj v ďalšom roku trvania projektu.

27.) Malé štruktúrované motívy ako regulátory patofyziológie prirodzene neusporiadaného tau proteínu (*Small ordered motifs in regulation of pathophysiology of disordered protein tau*)

Zodpovedný riešiteľ: Rostislav Škrabana
Trvanie projektu: 1.7.2022 / 30.6.2025
Evidenčné číslo projektu: APVV-21-0479
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 53326 €

Dosiahnuté výsledky:

V roku 2024 sme pokračovali v analýze difrakčných dát. Vyriešili sme štruktúru dvoch rôznych kryštálových foriem komplexu protilátky MN423 s dreňovým fragmentom tau dGAE a pokračujeme v ich spresňovaní. Pristúpili sme k molekulovej dynamike troch rôznych krátkych peptidov tau s potenciálnym výskytom malých štruktúrnych motívov, ako aj dlhších úsekov tau s potenciálom

tvorby tau vlákien. Analyzovali sme agregáčny potenciál filamentov tau izolovaných z ľudského tkaniva a pripravených in vitro.

Cehlar O, Njemoga S, Horvath M, Cizmazia E, Bednarikova Z, Barrera EE. Structures of Oligomeric States of Tau Protein, Amyloid-beta, alfa-Synuclein and Prion Protein Implicated in Alzheimer's Disease, Parkinson's Disease and Prionopathies. International Journal of Molecular Sciences. 2024; 25(23):13049. <https://doi.org/10.3390/ijms252313049>

Kitoka K, Lends A, Kucinskas G, Bula AL, Krasauskas L, Smirnovas V, Zilkova M, Kovacech B, Skrabana R, Hritz J, Jaudzems K. dGAE(297-391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments. Angew Chem Int Ed Engl. 2024 Dec 2;63(49):e202407821. doi: 10.1002/anie.202407821. Epub 2024 Oct 22.

Babulic P, Cehlar O, Ondrovičová G, Moskalets T, Skrabana R, Leksa V. Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. Pharmaceuticals (Basel). 2024 Aug 4;17(8):1021. doi: 10.3390/ph17081021. PMID: 39204126; PMCID: PMC11357225.

28.) Mitochondriálna transplantácia, inovatívna stratégia terapie Alzheimerovej choroby (*Mitochondrial transplantation, an innovative strategy for the therapy of Alzheimer's disease*)

Zodpovedný riešiteľ:	Norbert Žilka
Trvanie projektu:	1.7.2024 / 30.6.2027
Evidenčné číslo projektu:	APVV-23-0368
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Jesseniova lekárska fakulta v Martine
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 15432 €

Dosiahnuté výsledky:

V prvom roku riešenia sme sa zamerali na vývoj a aplikáciu metódy izolácie mitochondrií z mozgu zvierat. Využili sme transgénne zvieratá produkujúce krátku formu tau proteínu, ktorých mozog je zasiahnutý neurofibrilárnou degeneráciou. Predpokladáme, že skrátené formy tau proteínu sú schopné selektívne poškodzovať špecifické zložky mitochondrií. Metóda nám umožnila získať koncentrované vzorky mozgového tkaniva obohatené o mitochondrie. Jednotlivé frakcie sme následne validovali prostredníctvom prietokovej cytometrie a Western blotovej analýzy. Mitochondriálnu frakciu sme použili na ďalšie proteomické analýzy s cieľom identifikovať mieru poškodenia mitochondrií v mozgu transgénnych zvierat. V ďalšom roku riešenia sa zameriame na komplexný mitochondriálny proteóm a identifikujeme mieru poškodenia mitochondrií na bielkovinovej úrovni.

29.) Neuro-gliový multi-bunkový model pre šírenie tau patológie (*Neuro-glia cell-based model for inter-neuronal spread of tau pathology*)

Zodpovedný riešiteľ:	Monika Žilková
Trvanie projektu:	1.7.2021 / 30.6.2025
Evidenčné číslo projektu:	APVV-20-0585
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 56762 €

Dosiahnuté výsledky:

Hlavným cieľom projektu je vytvoriť ľudský neuro-gliový multi-bunkový systém na šírenie tau patológie. V predchádzajúcich rokoch riešenia projektu sa nám podarilo pripraviť a charakterizovať ľudské neuronálne bunky: modifikovanú neuronálnu líniu ReNCX/hNGN2, ktorá má potenciál diferencovať do kortikálnych neurónov exprimujúcich neuronálne markery ako sú: betaIII tubulín a tau proteín. V roku 2024 sa nám podarilo pripraviť ľudské mikrogliové bunky z ľudských monocytov (PBMC), ktoré sme diferencovali v prítomnosti GM-CSF +IL34. Získané mikrogie boli pozitívne na základné mikrogliové markery: TMEM119, P2RY12, CX3CR1, Iba1, TREM2 a negatívne na CCR2. Navyše, dva funkčné testy potvrdili ich aktivovateľnosť po stimulácii (LPS aktivácia, fagocytóza). V ďalšej časti riešenia projektu sme zostavili neurón-mikrogliový model, kde bola umožnená vzájomná komunikácia medzi neuronálnymi ReNCX/hNGN2 a mikrogliovými bunkami. V tomto modeli sme úspešne otestovali anti-tau protilátku AX004, ktorá inhibovala prestup patologického tau z neurónu na neurón a zároveň potencovala spracovanie patologického tau mikrogliou.

Programy: Iné projekty

30.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine

Zodpovedný riešiteľ:	Natalia Borisovna Hryntsová
Trvanie projektu:	15.3.2023 / 14.3.2026
Evidenčné číslo projektu:	09I03-03-V01-00147
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Plán Obnovy: 39600 €

Dosiahnuté výsledky:

V rámci projektu pokračujeme podľa plánu. Vyskumníčka Doc. Natália Hryntsova sa v rámci projektu podieľa najmä na postmortálnej charakterizácii mozgového tkaniva pacientov s rôznymi formami neurodegeneratívnych ochorení a demencií. Postmortálna charakterizácia znamená kvantitatívne a kvalitatívne stanovenie patológie na histologickej, mikroskopickej úrovni s fotodokumentáciou, na ktorej sa Natália takisto podieľa. Charakterizovaní pacienti a ich vzorky s robustnou tau patológiou sú následne vybraní ako vhodní kandidáti pre izoláciu sarkozyl nerozpustného tau proteínu. Izoláty tau proteínu sa použijú na aplikáciu do animálnych modelov na skúmanie šírenia tau patológie. Takisto v rámci projektu zapájame Natáliu do experimentov, ktoré skúmajú aj faktory, ktoré samotné šírenie ovplyvňujú ako je zápal a nefarmakologické vplyvy obohateného prostredia. V rámci projektu sa Natália podieľa aj na imunohistochemických analýzach vzoriek z použitých animálnych modelov. Získané výsledky boli spracované do publikačnej podoby a uverejnené v zahraničných časopisoch. V rámci projektu bola Natália Hryntsova začlenená do viacerých grantových schém APVV a VEGA a vedeckých kolektívov ako spoluriešiteľka.

Publikácie:

Basheer N, Muhammadi MK, Freitas CL, Avila M, Momand MUD, Hryntsova N, Smolek T, Katina S, Zilka N. TLR4-mediated chronic neuroinflammation has no effect on tangle pathology in a tauopathy mouse model. Front Aging Neurosci. 2024 Oct 21;16:1468602. doi: 10.3389/fnagi.2024.1468602. PMID: 39503044; PMCID: PMC11536299.

31.) Štipendia pre excelentných výskumníkov ohrozených vojnovým konfliktom na Ukrajine

Zodpovedný riešiteľ: Olena Borysivna Lykhota
Trvanie projektu: 15.10.2022 / 29.2.2024
Evidenčné číslo projektu: 09I03-03-V01-00019
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Plán Obnovy: 6600 €

Dosiahnuté výsledky:

Projekt bol ukončený z dôvodu rozviazania pracovného pomeru.

Programy: Plán obnovy EÚ

32.) Pre-agregačná a oligomérna konformácia neusporiadaného proteínu tau (*Preaggregation and oligomeric conformation of disordered protein tau*)

Zodpovedný riešiteľ: Ondrej Cehlár
Trvanie projektu: 1.9.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00623
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Plán obnovy EÚ: 25605 €

Dosiahnuté výsledky:

Konformačné súbory tau proteínov tau321-391 a tau297-391 boli charakterizované metódou SAXS (nízkoúhlový rozpryľ röntgenového žiarenia) a taktiež ich komplexy s protilátkou DC11 počas merania na synchrotrone PETRA III, stanica P12.

Konformačné súbory tau proteínov tau321-391 a tau326-391 boli charakterizované pomocou simulácií molekulovej dynamiky v zjednodušenej coarse grained reprezentácii.

Teoretický základ projektu bol zhrnutý v prehľadovej publikácii:

Cehlar, O.; Njemoga, S.; Horvath, M.; Cizmazia, E.; Bednarikova, Z.; Barrera, E.E. Structures of Oligomeric States of Tau Protein, Amyloid-?, ?-Synuclein and Prion Protein Implicated in Alzheimer's Disease, Parkinson's Disease and Prionopathies. Int. J. Mol. Sci. 2024, 25, 13049. <https://doi.org/10.3390/ijms252313049>

33.) Translačný výskum v oblasti diagnostiky a liečby úpalu (*Translational research for diagnosis and treatment of heatstroke*)

Zodpovedný riešiteľ: Andrej Kováč
Trvanie projektu: 1.7.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V03-00086
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0

Čerpané financie: Plán obnovy EÚ: 114107 €

Dosiahnuté výsledky:

Globálne otepľovanie zvyšuje celosvetovo frekvenciu prírodných katastrof, ako sú ničivé požiare a búrky, a priamo vplýva na výskyt ochorení súvisiacich s teplom. Úpal je najzávažnejšie ochorenie spôsobené teplom. Úpal sa vyznačuje zvýšenou teplotou telesného jadra nad 40 °C, sprevádzanou poruchami funkcie centrálného nervového systému (CNS). Hlavným cieľom projektu BIOheat je zaviesť a modernizovať diagnostiku ochorení spôsobených teplom na Slovensku a preniesť získané výsledky do klinickej praxe. Prostredníctvom projektu BIOheat sa Slovensko aktívne zapojí do európskych snáh o zníženie rastúceho výskytu ochorení súvisiacich s teplom. V prvej časti riešenia projektu sme v našom laboratóriu zaviedli animálny model úpalu. V nasledujúcom období využijeme vzorky z animálnych experimentov na identifikáciu skorých biomarkerov poškodenia CNS pri úpale pomocou moderných metabolomických postupov.

34.) Využitie extracelulárnych vezikulárnych biomarkerov pre výber pacientov do klinickej štúdie zameranej na testovanie nefarmakologických prístupov u pacientov s demenciou (*Use of extracellular vesicular biomarkers for patients' selection for clinical trial on non-pharmacological approaches in patients suffering from dementia*)

Zodpovedný riešiteľ: Branislav Kováčech
Trvanie projektu: 1.6.2024 / 31.5.2026
Evidenčné číslo projektu: 09I01-03-V04-00039
Organizácia je áno
koordinátorom projektu:
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Plán obnovy EÚ: 13015 €

Dosiahnuté výsledky:

Projekt je podporným projektom pre Európsky projekt ADDIT-CE (Horizon 4.1, HORIZON-CSA), ktorého hlavným cieľom je identifikovať diagnostické biomarkery v krvi a mozgovo-miechovej tekutine a pripraviť diagnostické testy na ich kvantitatívne monitorovanie terapeutической účinnosti nefarmakologických prístupov. Predkladaný projekt EXTRA-BIO nadväzuje na WP4 a WP5 projektu ADDIT-CE a rozširuje diapazón prístupov o ďalšiu metódu, ktorá je založená na princípe RT-QuIC (Real-time quaking-induced conversion) a umožňuje identifikáciu patologických foriem alfa-synukleínu. Synukleínopatie sú často sprievodnými neurodegeneračnými procesmi u pacientov s Alzheimerovou chorobou. Avšak na rozdiel od patológie alfa-amyloidu a tau proteínu, patológia alfa-synukleínu, ktorá tiež spôsobuje neurodegeneráciu, nie je rutinne diagnostikovaná. Táto nevedomosť o sprievodných neurodegeneračných procesoch výrazne prispieva k maskovaniu účinku potenciálnych liekov pre Alzheimerovu chorobu v klinických skúškach a pri liečbe pacientov. V doterajšom trvaní projektu sa nám podarilo zaviesť metodiku na expresiu a purifikáciu rekombinantného alfa-synukleínu. Po spustení systému Octet s biolayer interferometriou budeme vedieť presnejšie charakterizovať biologickú aktivitu a štruktúru rekombinantného proteínu, a tak optimalizovať purifikačné postupy. Prebiehajú tiež prvé experimenty s nastavením RT-QuIC metódy in vitro agregácie alfa-synukleínu. Cieľom je nastaviť koncentrácie monomérneho alfa-synukleínu tak, aby polymerizácia bola inicializovaná pridaním externých foriem agregátov. Toto je kľúčová časť projektu, pretože reakcia nesmie dávať falošne pozitívne výsledky, t.j. polymerizáciu synukleínu bez prítomnosti externých agregátov, ale zároveň musí byť dostatočne citlivá na stopové množstvá agregátov (nesmie dávať falošne negatívne výsledky). Popri nastavovaní polymerizačnej reakcie zavádzame metódu kvantitatívnej izolácie extracelulárnych vezikúl z plazmy. Projekt pokračuje podľa časového harmonogramu.

35.) Nový pohľad na mechanizmus tauopatií: lipidy ako nástroj na kontrolu procesu neurodegenerácie a neurozápalu (*Novel insights into Tauopathy mechanism: lipids as a tool to control neurodegeneration and neuroinflammation*)

Zodpovedný riešiteľ: Petra Majerová
Trvanie projektu: 1.9.2024 / 31.8.2025
Evidenčné číslo projektu: 09I03-03-V06-00019
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: 0

Dosiahnuté výsledky:

Zámerom projektu bola kúpa prístroja, ktorý bude využitý na sledovanie lipidových zmien a interakcií proteínov s bunkovou membránou v tkanivových rezoch a mozgovom tkanive zvierat. Prístroj bol zaobstaraný a bude využitý v rámci vedeckého APVV projektu: Nový pohľad na mechanizmus tauopatií: lipidy ako nástroj na kontrolu procesu neurodegenerácie a neurozápalu.

36.) Vývoj moderných analytických prístupov pre komplexnú charakterizáciu imunogénneho proteínu KLH (*Development of modern analytical strategies for complex characterization of immunogenic protein keyhole limpet hemocyanin*)

Zodpovedný riešiteľ: Juraj Piešťanský
Trvanie projektu: 1.9.2024 / 30.6.2026
Evidenčné číslo projektu: 09I03-03-V04-00622
Organizácia je koordinátorom projektu: áno
Koordinátor: Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: Plán obnovy EÚ: 21581 €

Dosiahnuté výsledky:

V rámci riešeného projektu bol realizovaný vývoj metódy gélovej permeačnej chromatografie (SEC) s jednoduchým typom detekcie na báze UV pre potreby analýzy imunogénneho proteínu keyhole limpet hemocyanin (KLH). Testované boli rozličné typy separačných kolón a rozličné chromatografické prístroje typu konvenčnej HPLC alebo pokročilej UHPLC techniky. Proces optimalizácie zahŕňal taktiež výber vhodného separačného pufru (mobilnej fázy).

Súbežne bol realizovaný vývoj metódy aminokyselinovej analýzy na báze spojenia UHPLC s pokročilým typom detekcie na báze hmotnostnej spektrometrie. Výsledky získané z procesu optimalizácie metódy a jej aplikácie na kontrolu kvality vzoriek KLH boli prezentované vo forme posteru s názvom „Simple UPLC-MS amino acid analysis approach for quality control of KLH“ na medzinárodnej vedeckej konferencii Czech Mass Spectrometry Conference 2024 v Českých Budějoviciach.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

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- ADCA01 BABULIC, Patrik - CEHLÁR, Ondrej - ONDROVIČOVÁ, Gabriela - MOSKALETS, Tetiana - ŠKRABANA, Rostislav** - LEKSA, Vladimír**. Lactoferrin Binds through Its N-Terminus to the Receptor-Binding Domain of the SARS-CoV-2 Spike Protein. In *Pharmaceuticals*, 2024, vol. 17, art. no. 1021. (2023: 4.3 - IF, Q1 - JCR, 0.845 - SJR, Q1 - SJR). ISSN 1424-8247. Dostupné na: <https://doi.org/10.3390/ph17081021> (APVV-16-0452 : Regulácia pericelulárnej proteolýzy: od molekulárnych mechanizmov k novým subsetom imunitných buniek a terapeutickým nástrojom (PPIS). APVV-20-0513 : Dvojsečný meč plazminogénového systému: Od udržiavania homeostázy po COVID-19. APVV-21-0479 : Malé štruktúrované motívy ako regulátory patofyziológie prirodzene neusporiadaného tau proteínu. VEGA č. 2/0020/17 : Ľudský mliečny bioaktívny glykoproteín laktoferín ako regulátor homeostázy. VEGA 2/0152/21 : Laktoferín a laktofericín ako prirodzené inhibítory plazmínu: Od určenia štruktúry po terapeutické aplikácie)
- ADCA02 BARTA, Andrej - CEBOVÁ, Martina - KOVÁČ, Andrej - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - PECHÁŇOVÁ, Oľga**. Aliskiren-loaded nanoparticles downregulate (pro)renin receptor and ACE gene expression in the heart of spontaneously hypertensive rats: Effect on NADPH oxidase. In *International Journal of Molecular Sciences*, 2024, vol. 25, no. 2, art. no. 846. (2023: 4.9 - IF, Q1 - JCR, 1.179 - SJR, Q1 - SJR). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms25020846> (VEGA č. 2/0025/23 : Inhibícia ACE2 receptorov pri hypertenzii a obezite ako potenciálny model dôsledkov COVID-19: účinok S-nitrózokaptoprilu. VEGA č. 1/0048/23 : Protekcia kardiovaskulárneho systému pri experimentálnej hypertenzii a zlyhaní srdca inhibítorom sodíkovoglukózového kotransportéra 2-dapagliflozínom: efekt na srdce, cievy a obličky. Porovnanie s ACE-inhibítorom kaptoprilom. VEGA č. 2/0132/20 : Vplyv starnutia a hypertenzie na experimentálny infarkt myokardu. VEGA č. 2/0122/24 : Terapeutický potenciál prírodných antioxidantov 7,8-dihydroxyflavónu a Naringínu v animálnom modeli depresie. APVV-22-0271 : Účinky mezenchymálnych kmeňových buniek a inhibítora HMGB1 na kardiovaskulárny systém po experimentálne vyvolanom infarkte myokardu v hypertenzii a diabetes mellitus. ITMS2014+: 313011AVG3 : Vývoj biomodelov pre zlepšenie hodnotenia účinnosti liekov a látok, ktoré majú potenciál pri liečbe COVID-19 (BIOVID-19). ITMS2014+: 313011W428 : Centrum pre biomedicínsky výskum - BIOMEDIRES - II. etapa)
- ADCA03 BARTOŠOVÁ, Linda - BALIŠ, Peter - GARAJ, Vladimír - KOVÁČ, Andrej - RAJTÍK, Tomáš* - PIEŠŤANSKÝ, Juraj*. A simple UHPLC-MS/MS method for determination of SET2, a selective antagonist of TRPV2 receptor, in rat plasma samples. In *Journal of chromatography B. Analytical technologies in the biomedical and life sciences*, 2024, vol. 1235, art. no. 124067. (2023: 2.8 - IF, Q2 - JCR, 0.539 - SJR, Q2 - SJR). ISSN 1570-0232. Dostupné na: <https://doi.org/10.1016/j.jchromb.2024.124067> (VEGA č. 1/0775/21 : Kardioprotektívny potenciál TRP kanálov: úloha v remodelácii, zápale a vápnikovej dysregulácii)
- ADCA04 CARACOTI, Viorela-I - ANCUȚA, Diana L. - ANCUȚA, Diana L. - IONÎȚĂ, Fabiola

- MUNTEAN ANDREI-A, Andrei-A. - BHIDE, Mangesh - POPA, Gabriela L. - POPA, Mircea I.** - COMAN, Cristin. Developing a Novel Murine Meningococcal Meningitis Model Using a Capsule-Null Bacterial Strain. In *Diagnostics*, 2024, vol. 14, iss.11, art. no. 116. (2023: 3 - IF, Q1 - JCR, 0.667 - SJR, Q2 - SJR). ISSN 2075-4418. Dostupné na: <https://doi.org/10.3390/diagnostics14111116>.
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- ADCA06 GERHARDOVÁ, Ivana - JANKECH, Timotej - MAJEROVÁ, Petra - PIEŠŤANSKÝ, Juraj - OLEŠOVÁ, Dominika - KOVÁČ, Andrej - JAMPÍLEK, Josef**. Recent Analytical Methodologies in Lipid Analysis. In *International Journal of Molecular Sciences*, 2024, vol. 25, iss. 4, art. no. 2249. (2023: 4.9 - IF, Q1 - JCR, 1.179 - SJR, Q1 - SJR). ISSN 1422-0067. Dostupné na: <https://doi.org/10.3390/ijms25042249>
- ADCA07 GERHARDOVÁ, Ivana - ČIŽMÁROVÁ, Ivana - JANKECH, Timotej - OLEŠOVÁ, Dominika - JAMPÍLEK, Josef - PARRÁK, Vojtech - NEMERGUTOVÁ, Kristína - SOPKO, Ladislav - PIEŠŤANSKÝ, Juraj - KOVÁČ, Andrej. Implementation of modern therapeutic drug monitoring and lipidomics approaches in clinical practice: a case study with colistin treatment. In *Pharmaceuticals*, 2024, vol. 17, no. 6, art. no. 753. (2023: 4.3 - IF, Q1 - JCR, 0.845 - SJR, Q1 - SJR). ISSN 1424-8247. Dostupné na: <https://doi.org/10.3390/ph17060753>
- ADCA08 HNILICOVÁ, P. - GRENDÁR, M. - TURČANOVÁ KOPRUŠÁKOVÁ, Monika - TRANČÍKOVÁ KRÁĽOVÁ, Alžbeta - HARŠANYIOVÁ, Jana - KRSSAK, M. - JUST, Ivica - MIŠOVIČOVÁ, N. - HIKKELOVÁ, M. - GROSSMANN, Ján - ŠPALEK, Peter - MEČIAROVÁ, Iveta - KURCA, E. - ZILKA, N. - ZELENÁK, Kamil - BOGNER, W. - KOLÍSEK, Martin**. Brain of miyoshi myopathy/dysferlinopathy patients presents with structural and metabolic anomalies. In *Scientific Reports*, 2024, vol. 14, no., article number: 19267, 18 pp. (2023: 3.8 - IF, Q1 - JCR, 0.9 - SJR, Q1 - SJR, karentované - CCC). (2024 - Current Contents, WOS, SCOPUS). ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/s41598-024-69966-4>
- ADCA09 JANKECH, Timotej* - GERHARDOVÁ, Ivana* - ŠTEFÁNIK, Ondrej - CHALOVÁ, Petra - JAMPÍLEK, Josef - MAJEROVÁ, Petra - KOVÁČ, Andrej - PIEŠŤANSKÝ, Juraj**. Current green capillary electrophoresis and liquid chromatography methods for analysis of pharmaceutical and biomedical samples (2019–2023) - a review. In *Analytica Chimica Acta*, 2024, vol. 1323, art. no. 342889. (2023: 5.7 - IF, Q1 - JCR, 0.998 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2024.342889> (APVV-22-0133 : Zelené laboratórium pre analýzu a charakterizáciu farmaceutík a bioaktívnych látok)
- ADCA10 JANKECH, Timotej - GERHARDOVÁ, Ivana - MAJEROVÁ, Petra - PIEŠŤANSKÝ, Juraj - FIALOVÁ, Ľubica - JAMPÍLEK, Josef** - KOVÁČ, Andrej*. A Novel RP-UHPLC-MS/MS Approach for the Determination of Tryptophan Metabolites Derivatized with 2-Bromo-4'-Nitroacetophenone. In *Biomedicines*, 2024, vol. 12, iss. 5, art. no. 1003, 20 pp. (2023: 3.9 - IF, Q1 - JCR, 0.962 - SJR, Q1 - SJR). ISSN 2227-9059. Dostupné na: <https://doi.org/10.3390/biomedicines12051003>
- ADCA11 JANKECH, Timotej - GERHARDOVÁ, Ivana - MAJEROVÁ, Petra -

- ADCA12 PIEŠŤANSKÝ, Juraj - JAMPÍLEK, Josef - KOVÁČ, Andrej. Derivatization of carboxylic groups prior to their LC analysis – A review. In *Analytica Chimica Acta*, 2024, vol. 1300, art. no. 342435. (2023: 5.7 - IF, Q1 - JCR, 0.998 - SJR, Q1 - SJR). ISSN 0003-2670. Dostupné na: <https://doi.org/10.1016/j.aca.2024.342435>
- ADCA13 KITOKA, Kristine - LENDIS, Alons - KUCINSKAS, Gytis - BULA, Anna Lina - KRASAUSKAS, Lukas - SMIRNOVAS, Vytautas - ŽILKOVÁ, Monika - KOVÁČECH, Branislav - ŠKRABANA, Rostislav - HRITZ, J. - JAUDZEMS, Kristaps. dGAE(297–391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments. In *Angewandte Chemie*, 2024, vol. 63, iss. 49, art. no. e202407821, 7 pp. (2023: 16.1 - IF, Q1 - JCR, 5.3 - SJR, Q1 - SJR). ISSN 1433-7851. Dostupné na: <https://doi.org/10.1002/anie.202407821>
- ADCA14 KOVÁČECH, Branislav** - CULLEN, Nicholas C - NOVÁK, Petr - HANES, Jozef - KONTSEKOVÁ, Eva - KATINA, Stanislav - PARRÁK, Vojtech - FRESSER, Michal - VANBRABANT, Jeroen - FELDMAN, Howard H - WINBLAD, B. - STOOPS, Erik - VANMECHELEN, Eugene - ŽILKA, Norbert*. Post hoc analysis of ADAMANT, a phase 2 clinical trial of active tau immunotherapy with AADvac1 in patients with Alzheimer's disease, positive for plasma p-tau217. In *Alzheimer's Research & Therapy*, 2024, vol.16, article number: 254, 14 pp. (2023: 7.9 - IF, Q1 - JCR, 2.608 - SJR, Q1 - SJR). ISSN 1758-9193. Dostupné na: <https://doi.org/10.1186/s13195-024-01620-7>
- ADCA15 LAKHNEKO, Olha - FIALOVÁ, Ivana - FIALA, Roderik - KOPÁČOVÁ, Mária - KOVÁČ, Andrej - DANCHENKO, Maksym**. Silicon might mitigate nickel toxicity in maize roots via chelation, detoxification, and membrane transport. In *Ecotoxicology and Environmental Safety*, 2024, vol. 288, no., art. no. 117334. (2023: 6.2 - IF, Q1 - JCR, 1.418 - SJR, Q1 - SJR). ISSN 0147-6513. Dostupné na: <https://doi.org/10.1016/j.ecoenv.2024.117334>
- ADCA16 MAIER, Andreas - HARTUNG, Michael - ABOVSKY, Mark - JURIŠICA, Igor - ZOLOTAREVA, Olga - BAUMBACH, Jan. Drugst.One - A plug-and-play solution for online systems medicine and network-based drug repurposing. In *Nucleic acids research*, 2024, vol. 52, iss. W1., p. W481–W488. (2023: 16.6 - IF, Q1 - JCR, 7.048 - SJR, Q1 - SJR). ISSN 0305-1048. Dostupné na: <https://doi.org/10.1093/nar/gkae388>
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- ADCA18 OLEŠOVÁ, Dominika* - DOBEŠOVÁ, Dana* - MAJEROVÁ, Petra - BRUMAROVÁ, Radana - KVASNIČKA, Aleš - KOUŘIL, Štěpán - STEVENS, Eva - HANES, Jozef - FIALOVÁ, Ľubica - POLČÍK MICHALICOVÁ, Alena - PIEŠŤANSKÝ, Juraj - ŠINSKÝ, Jakub - KAŇOVSKÝ, Petr - FRIEDECKÝ, David** - KOVÁČ, Andrej**. Changes in lipid metabolism track with the progression of neurofibrillary pathology in tauopathies. In *Journal of Neuroinflammation*, 2024, vol. 21, art. no. 78, 25 pp. (2023: 9.3 - IF, Q1 - JCR, 2.831 - SJR, Q1 - SJR). ISSN 1742-2094. Dostupné na: <https://doi.org/10.1186/s12974-024-03060-4>
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- ADCA19 PEINADO-IZAGUERRI, Jorge** - CORBISHLEY, Alexander - ZARZUELA, Eduardo - PINA-BELTRÁN, Blanca - RIVA, Francesca - MCKEEGAN, Dorothy E.F. - BAIN, Maureen - MUNOZ, Javier - BHIDE, Mangesh - MCLAUGHLIN, Mark - PRESTON, Tom. Effect of an immune challenge and two feed supplements on broiler chicken individual breast muscle protein synthesis rate. In Journal of Proteomics, 2024, vol. 299, iss., article number: 105158,. (2023: 2.8 - IF, Q2 - JCR, 0.742 - SJR, Q2 - SJR). ISSN 1874-3919. Dostupné na:
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- ADCA22 ŠTEFÁNIK, Ondrej - MAJEROVÁ, Petra - KOVÁČ, Andrej - MIKUŠ, Peter - PIEŠŤANSKÝ, Juraj**. Capillary electrophoresis in the analysis of therapeutic peptides—A review. In Electrophoresis, 2024, vol. 45, iss. 1-2, pp. 120-164. (2023: 3 - IF, Q2 - JCR, 0.541 - SJR, Q2 - SJR). ISSN 0173-0835. Dostupné na:
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- ADCA25 ZORAD, Štefan** - ŠKRABANOVÁ, Michaela* - ŽILKOVÁ, Monika - ČENTE, Martin - TURIC CSÓKOVÁ, Natália - KOVÁČECH, Branislav - ČÍŽKOVÁ, Dáša - FILIPČÍK, Peter*. Angiotensin I and II Stimulate Cell Invasion of SARS-CoV-2: Potential Mechanism via Inhibition of ACE2 Arm of RAS. In Physiological Research, 2024, vol. 73, no. 1, p. 27-35. (2023: 1.9 - IF, Q3 - JCR, 0.584 - SJR, Q2 - SJR). ISSN 0862-8408. Dostupné na: <https://doi.org/10.33549/physiolres.935198>
 (APVV-20-0421 : Kardiometabolické účinky stimulácie Mas receptorov modulovaním renín-angiotenzínového systému - kľúčová úloha angiotenzín-konvertujúceho enzýmu 2. APVV-17-0668 : Identifikácia molekulových

mechanizmov indukovaných traumatickým poškodením mozgu u hráčov ľadového hokeja. APVV-20-0615 : Molekulové dráhy indukované traumatickým poškodením mozgu: identifikácia nových biomarkerov a potenciálnych terapeutických cieľov pre neurodegeneráciu)

ADDA Vedecké práce v domácich karentovaných časopisoch – impaktovaných

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ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

- ADEB01 BHIDE, Mangesh - SINGH, Omender - NASA, Prashant - JUNEJA, Deven**. Cytomegalovirus infection in non-immunocompromised critically ill patients: A management perspective. In World Journal of Virology, 2024, vol. 13, iss 1, article number: 89135. ISSN 2220-3249. Dostupné na: <https://doi.org/10.5501/wjv.v13.i1.89135>

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- ADFB01 MALÁRIK, Tomáš - BHIDE, Katarína - TALPAŠOVÁ, Lea - BHIDE, Mangesh**. MPHAGES AND THE BLOOD-BRAIN BARRIER: A REVIEW. In Folia veterinaria, 2024, vol. 68, no. 1, p. 15—21. ISSN 0015-5748. Dostupné na: <https://doi.org/10.2478/fv-2024-0002>
- ADFB02 TALPAŠOVÁ, Lea - BHIDE, Katarína - MALÁRIK, Tomáš - BHIDE, Mangesh**. COMPLEMENTARITY-DETERMINING REGION 3 (CDR3) OF THE HEAVY CHAIN ONLY ANTIBODIES: THERAPEUTIC PERSPECTIVES. In Folia veterinaria, 2024, vol. 68, no. 2, p. 64—71. ISSN 0015-5748. Dostupné na: <https://doi.org/10.2478/fv-2024-0019>

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- ADMA01 BASHEER, Neha - BUEE, Luc** - BRION, Jean-Pierre - SMOLEK, Tomáš - MUHAMMADI, Muhammad Khalid - HRITZ, Jozef - HROMÁDKA, Tomáš - DEWACHTER, Ilse - WEGMANN, Susanne - LANDRIEU, Isabelle - NOVÁK, Petr - MUDHER, Amritpal - ŽILKA, Norbert**. Shaping the future of preclinical development of successful disease-modifying. In Acta Neuropathologica Communications, 2024, vol. 12 iss 1, art.no. 52, 31 pp. (2023: 6.2 - IF, Q1 - JCR, 2.58 - SJR, Q1 - SJR). ISSN 2051-5960. Dostupné na: <https://doi.org/10.1186/s40478-024-01748-5>
- ADMA02 BASHEER, Neha** - MUHAMMADI, Muhammad Khalid - FREITES, Carlos Leandro - AVILA, Martin - UD DIN MOMAD, Miraj - HRYNTSOVA, Natalia - SMOLEK, Tomáš - KATINA, Stanislav - ŽILKA, Norbert. TLR4-mediated chronic neuroinflammation has no effect on tangle pathology in a tauopathy mouse model. In Frontiers in Aging Neuroscience, 2024, vol. 16, iss., article number: 1468602, 15 pp. (2023: 4.1 - IF, Q2 - JCR, 1.173 - SJR, Q2 - SJR). ISSN 1663-4365. Dostupné na: <https://doi.org/10.3389/fnagi.2024.1468602>
- ADMA03 BOSHART, Alex - PETROVIC, Stefan - ABOVSKY, Mark - PASTRELLO, Chiara

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- AFB03 MESÁROŠOVÁ, Barbora - FILIPČÍK, Peter - ČENTE, Martin. Physiological Response to Traumatic Brain Injury and Repetitive Head Impacts in Contact Sports. In Úrazy hlavy a krku - reálny nepriateľ v športových hrách : zborník z vedeckej konferencie. Peráček Pavol, Priklerová Silvia (zostavovatelia). 1. vyd. - Bratislava : Slovenská vedecká spoločnosť pre telesnú výchovu, 2024, pp. 34-40. ISBN 978-80-8251-021-1. (ÚRAZY HLAVY A KRKU – REÁLNY NEPRIATEĽ V

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- AFD04 KOMÁROVÁ, Jana - FIALOVÁ, Ľubica - KURDIOVÁ, Timea - UKROPEC, Jozef - UKROPCOVÁ, Barbara. Izolácia extracelulárnych vezikúl a ich internalizácia do buniek kolorektálneho karcinómu. In Študentská vedecká konferencia Prif UK 2024 : Zborník recenzovaných príspevkov. 1. vyd. - Bratislava : Univerzita Komenského v Bratislave, 2024, p. 266-271. ISBN 978-80-223-5822-4. Dostupné na internete: https://fns.uniba.sk/fileadmin/prif/svk/zborniky/Zbornik_SVK_PriF_UK_2024.pdf (Študentská vedecká konferencia PriF UK 2024. APVV 20-0466 : Zlepšenie prajavov starnutia pravidelným cvičením: multi-orgánový integratívny prístup k molekulovej, metabolickej a štrukturálnej adaptácii na cvičenie. APVV-19-0411 : Identifikácia a validácia biomarkerov a zodpovedných molekulárnych dráh neskorej toxicity kuratívnej liečby u germinatívnych nádorov testis. VEGA 2/0076/22 : Účinky pravidelného dlhodobého cvičenia na bunkové a molekulárne procesy asociované so starnutím: multi-orgánový integratívny prístup)

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 BHIDE, Mangesh - JOZEFIAKOVÁ, Jana - TALPAŠOVÁ, Lea - MALARIK, Tomáš - KUCKOVÁ, Katarína - VIGLASKY, Jakub - BHIDE, Katarína. MALDI-TOF-TOF Based de novo Sequencing of the Novel Factor H Binding Protein Bg19 of Borrelia garinii : lecture. In Book of Abstracts 2nd Workshop on Mass Spectrometry in Life Sciences. 1. - Zagreb, HR : University of Zagreb, Faculty of Science, Zagreb, HR, 2024, p. 21, L2. ISBN 978-953-6076-79-6. Dostupné na internete: https://msworkshop.chem.pmf.unizg.hr/Book_of_Abstracts_2nd_Workshop_on_MS_in_LS.pdf (2nd Workshop on Mass Spectrometry in Life Sciences)
- AFG02 CEHLÁR, Ondrej - NJEMOGA, Stefana - ŠKRABANA, Rostislav - VOLKO, V. - HRITZ, J. - KADERAVEK, P. - KOVÁČECH, Branislav. Insights into the Alzheimer's disease specific pre-aggregation conformation of monomeric tau proteins using DC11 antibody : poster. In Materials Structure in Chemistry, Biology, Physics and Technology, 2024, vol. 30, no. 1, p. 34. ISSN 1211-5894. Dostupné na internete: <https://www.xray.cz/ms/bul2024-1/posters.pdf> (XX Discussions in Structural Molecular Biology and 7th User Meeting of CIISB (Czech Infrastructure for Integrative Structural Biology))

- AFG03 CEHLÁR, Ondrej - NJEMOGA, Stefana - ŠKRABANA, Rostislav - VOLKO, Viliam - HRITZ, J. - KADERAVEK, P. - FIALOVÁ, Ľubica - POLÁK, Adam - MAJEROVÁ, Petra - KOVÁČ, Andrej - PIEŠŤANSKÝ, Juraj - KOVÁČECH, Branislav. Insights into the Alzheimer's disease specific pre-aggregation conformation of monomeric tau proteins using conformational antibodies. In 10th Regional Biophysics Conference & 15th International Summer School of Biophysics, August 26-30, 2024, Split, Croatia : BOOK OF ABSTRACTS. - Split, Croatia : University of Split, School of Medicine, 2024, p. 46, P8. ISBN 978-953-7941-53-6. (RBC2024 and International Summer School of Biophysics : Regional Biophysics Conference & International Summer School of Biophysics)
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- AFH05 POLÁK, Adam - NJEMOGA, Stefana - MEŠKOVÁ, Klaudia - CEHLÁR, Ondrej - ŠKRABANA, Rostislav. Uncovering the structure of unstructured protein tau and its involvement in aggregation. Z. Gažová, A. Antošová, J. Kubacková (eds), M. Fabián, D. Fedunová, D. Jancura, I. Poliaček, J. Staničová (recenzenti). In 11th Slovak Biophysical Symposium, June 12 – 14, 2024, High Tatras : Book of Contributions. - High Tatras, Slovakia : Slovak Biophysical Society : Institute of Experimental Physics Slovak Academy of Sciences, Bratislava, Slovakia, 2024, p. 96-97, PO19. ISBN 978-80-973719-5-1. (Slovak Biophysical Symposium. Slovak Biophysical Symposium)
- AFH06 SEDLÁČKOVÁ, Tatiana - STYK, J. - FORGÁČOVÁ, Natália - LUKYOVÁ, L. - BUDIŠ, J. - SHEARDOVÁ, K. - ŽILKA, Norbert - SZEMES, Tomáš. Analýza vybraných génov u pacientov s Alzheimerovou chorobou. In XXXIV. Izakovičov memoriál 2024 : program a abstrakty. - Bratislava : SOLEN, s.r.o., 2024, s. 65. ISBN 978-80-89858-33-0. (Izakovičová memoriál 2024)

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- AFK02 VIGLASKY, Jakub - KUCKOVÁ, Katarína - BHIDE, Katarína - JOZEPIAKOVÁ, Jana - TALPAŠOVÁ, Lea - MALÁRIK, Tomáš - BHIDE, Mangesh. Domain Mapping Using Limited Proteolysis and MALDI-TOF MS : poster. In Book of Abstracts 2nd Workshop on Mass Spectrometry in Life Sciences. 1. - Zagreb, HR : University of Zagreb, Faculty of Science, Zagreb, HR, 2024, p. 44, P11. ISBN 978-953-6076-79-6. Dostupné na internete: https://msworkshop.chem.pmf.unizg.hr/Book_of_Abstracts_2nd_Workshop_on_MS_in_LS.pdf (2nd Workshop on Mass Spectrometry in Life Sciences)

AFL Postery z domácich konferencií

- AFL01 BARTOŠOVÁ, Linda - KOVÁČ, Andrej - DÓKA, Gabriel - BALIŠ, Peter - GARAJ, Vladimír - FERENCZYOVÁ, Kristína - DUĽOVÁ, Ulrika - PIEŠŤANSKÝ, Juraj - RAJTÍK, Tomáš. Pharmacokinetic Study of New Drug Probe SET2, Selective TRPV2 Inhibitor in Rats, and Its Acute Metabolic and Cardiac Effects. In Abstract Collection from the 10th Annual Meeting of the European Section of the International Academy of Cardiovascular Sciences, p. 63.
- AFL02 MARCINÍKOVÁ, Andrea - HORVÁTH, Csaba - JARABICOVÁ, Izabela - MAJEROVÁ, Petra - OLEŠOVÁ, Dominika - FERKO, Miroslav - ANDELOVÁ, Natália - SULEIMAN, Saadeh - ADAMEOVÁ, Adriana. Proteomic Screening of Early Reperfusion of Acute Ischaemic Heart and Insights into Mitochondrial-Associated Cell Damage vs Inflammasome Activation: A Role of RIP3. In Abstract Collection from the 10th Annual Meeting of the European Section of the International Academy of Cardiovascular Sciences, p. 98. (APVV-20-0242 : Nekroptotické a pleiotropné účinky RIP3 kinázy pôsobiacej ako konvergentný bod pri strate srdcových buniek: pochopenie základných mechanizmov v ischemickom srdci s metabolickým stresom alebo bez neho ako nástroj návrhu terapeutických prístupov.. APVV-22-0264 : Bioenergetická a proteomická diagnostika v kardioprotekcii: efektívny nástroj v sledovaní regulácie mitochondriálnych signalizačných dráh. VEGA č. 2/0016/23 : Zníženou spotrebou kyslíka regulovaná bioenergetika srdcových mitochondrií: Hĺbková proteomická analýza signálnych kardioprotektívnych dráh)

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

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- GII06 BHIDE, Mangesh - COMAN, C. - BHIDE, Katarína - JOZEFIÁKOVÁ, J. - KULKARNI, A. - TALPÁŠOVÁ, L. - MAĽARIK, T. - KUCKOVÁ, K. - VIGLASKY, Jakub - DHUMAL, D. - PENG, L. - HAYOUKA, Z. ZOONOTIC neuroinfections: from CNS invasion to therapeutic SDVSNES. In Souvenir-cum-Compendium of Abstracts. XX Annual Conference of Indian Association of Veterinary Public Health Specialist (IAVPHS) 2024 and National Symposium on „Integrating One Health: Bridging the Gap at Human-Animal-Environmental Interfaces. - Shirwal, India : MAFSU /Maharashtra Animal and Fishery Sciences University, Nagpur, India, 2024, p. 065, ZSL2. Dostupné na internete: <https://www.iavphscon.org/downloads/brochure.pdf> (XX Annual Conference of the Indian Association of Veterinary Public Health Specialists (IAVPHS) : National Symposium on Integrating One Health : Bridging the Gap at Human-Animal-Environment Interfaces. XX Annual Conference of the Indian Association of Veterinary Public Health Specialists (IAVPHS) : National Symposium on Integrating One Health : Bridging the Gap at Human-Animal-Environment Interfaces)
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- GII12 JOZEFIKOVÁ, Jana - DANIŠOVÁ, O. - MOCHNÁČOVÁ, Evelína - KUCKOVÁ, Katarína - BHIDE, Katarína - KULKARNI, Amod - TALPÁŠOVÁ, Lea - MAĽARIK, Tomáš - VIGLASKY, Jakub - BHIDE, Mangesh. Synthetic CDR3 derived from nanobody retains binding ability to Borrelia : poster. In Austrian Proteomics and Metabolomics Research Symposium (APMRS) & Central and Eastern Proteomic Conference (CEEPC) : Book of Abstracts. 1. - Vienna : Medical University of Vienna, 2024, p. 62, P 27. Dostupné na internete: https://www.apma.at/wp-content/uploads/2024/09/240905_APMRS2024_BookOfAbstracts_final.pdf (Austrian Proteomics and Metabolomics Research Symposium (APMRS) & Central and Eastern Proteomic Conference (CEEPC))
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- GII14 MAĽARIK, Tomáš - BHIDE, Katarína - TALPÁŠOVÁ, Lea - VIGLASKY, Jakub - JOZEFIKOVÁ, Jana - KUCKOVÁ, Katarína - BHIDE, Mangesh. Visualizing and functional assessment of in vitro complex blood-brain barrier : poster. In 26th International Symposium on "Signal Transduction at the Blood-Brain Barriers", Poster abstracts. - Szeged, HU : HUN-REN Biological Research Centre, Szeged, Hungary, 2024, p. 77, P32. Dostupné na internete: https://www.remedicon.hu/tartalmak/fajlok/fajl_bbb2024-posters_20240910222032.pdf (26th International Symposium on "Signal Transduction at the Blood-Brain Barriers. 26th International Symposium on "Signal Transduction at the Blood-Brain Barriers")
- GII15 MULLER, Sergio - RIVERA LAUTARO, Lautaro - UHART, Marina - BARRERA, Exequiel - BUSTOS, Diego M. - PEVALA, Vladimír - ŠKRABANA, Rostislav. Exploring B-Carbolines as Allosteric Modulators of L4-3-3 Proteins: A Comprehensive Approach from Virtual Screening to Crystallography. In HTCC6 - Advanced macromolecular crystallography workshop : Programme book. - Zagreb, CR : Croatian Association of Crystallographers, 2024, p.56. (Hot Topics in Contemporary Crystallography HTCC 6 : Advanced macromolecular crystallography workshop. Hot Topics in Contemporary Crystallography HTCC 6 : Advanced macromolecular crystallography workshop)
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- GII18 OLEŠOVÁ, Dominika. Unraveling tau pathology's impact on lipid metabolism: evidence from transgenic : lecture. In 6th Mini-Symposium on the Blood-Brain Barrier, from Basic to Clinical Research. Scientific Programme p. 5-7. - Smolenice : Neuroimunologický ústav SAV, 2024, p. 24. Dostupné na internete: <https://www.bbbminisymph2024-slovakia.sav.sk/documents/program.pdf> (6th Mini-symposium on the blood-brain barrier from basic to clinical research. 6th Mini-symposium on the blood-brain barrier from basic to clinical research)
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- GII25 TALPASOVA, Lea - BHIIDE, Katarína - VÍGLAŠSKY, Jakub - JOZEPIAKOVA, Jana - SLAVIKOVA, Monika - KULKARNI, Amod - ČURLÍK, Jan - KUCKOVA, Katarína - MALARIK, Tomáš - SALCEDO, Jose Antonio García - BHIIDE, Mangesh. Development of CDR3-Fc fusion proteins against SARS-CoV-2 brain infections. In XII Jornadas Científicas, Libro de resúmenes/ abstract. - Granada, Spain : Univerzidad de Grenada, 2024, p.26. Dostupné na internete: <https://www.genyo.es/wp-content/uploads/2025/01/Libro-de-abstract-xii Jornadas.pdf>
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Ohlasy (citácie):

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ADCA82

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ADCA127

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ADCA191

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ADCA210

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ADCA211

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ADCA212

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ADDA02

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ADDA03

CSICSÁTKOVÁ, Nikoleta* - SZALAY, Peter* - MÁTYÁSOVÁ, Katarína - MATÉ, Veronika - ČENTE, Martin - SMOLEK, Tomáš - BREZOVÁKOVÁ, Veronika - KAWECKA, Lucie - ŽILKA, Norbert - JADHAV, Santosh**. Transcriptomic signature of Alzheimer's disease tau seed-induced pathology. In *General Physiology and Biophysics*, 2021, vol. 40, no. 6, p. 541-549. (2020: 1.512 - IF, Q4 - JCR, 0.376 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2021022 (APVV-17-0642 : 3D in vitro model Alzheimerovej choroby s využitím astrocytov derivovaných z ľudských indukovaných pluripotentných kmeňových. APVV-18-0515 : Molekulové biomarkery ochorenia mozgu u psov – Monitorovanie regenerácie mozgového tkaniva a účinnosti terapie. APVV-14-0872 : Model bunkovej komunikácie medzi nervovým a imunitným systémom v Alzheimerovej chorobe. JPsustaiND 681043 : Coordination Action in support of the sustainability and globalisation of the Joint Programming Initiative on Neurodegenerative Diseases. VEGA 2/0118/19 : Dlhé nekódujúce RNA ako biomarkery Alzheimerovej choroby. VEGA 2/0110/20 : Vplyv neurofibrilárnej patológie na meningy u transgénneho modelu tauopatie)

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VÝVOJ NOVÉHO PEPTIDOVÉHO SYSTÉMU PRE TRANSPORT LIEČIV DO MOZGU. APVV-18-302 : Vývoj nových prístupov na terapiu tauopatií využívajúcich transportné peptidy pre liečivá a protilátky do mozgu. VEGA 2/0150/19 : Charakteristika vzťahu medzi neurofibrilárnou patológiou a diabetom)

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PALOVÁ, Denisa** - TURIC CSÓKOVÁ, Natália - MARKOVA, Karina - KONTSEKOVÁ, Eva - KOVÁČECH, Branislav - ŽILKOVÁ, Monika. The engagement of microglia in tau-targeted immunotherapy in Alzheimer's disease. In *General Physiology and Biophysics*, 2021, vol. 40, no. 6, p. 463-478. (2020: 1.512 - IF, Q4 - JCR, 0.376 - SJR, Q3 - SJR, karentované - CCC). (2021 - Current Contents). ISSN 0231-5882. Dostupné na: https://doi.org/10.4149/gpb_2021029 (APVV-17-0642 : 3D in vitro model Alzheimerovej choroby s využitím astrocytov derivovaných z ľudských indukovaných pluripotentných kmeňových. APVV-20-0585 : Neuro-gliový multi-bunkový model pre šírenie tau patológie)

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ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

ADEB01 BORSZÉKOVÁ PULZOVÁ, Lucia - KOVÁČ, Andrej - MUCHA, Rastislav - MLYNARČÍK, Patrik - BENCÚROVÁ, Elena - MAĐAR, Marián - NOVÁK, Michal - BHIDE, Mangesh. OspA-CD40 dyad: ligand-receptor interaction in the translocation of neuroinvasive *Borrelia* across the blood-brain barrier. In *Scientific Reports*, 2011, vol.1, p.86. ISSN 2045-2322. Dostupné na: <https://doi.org/10.1038/srep00086>

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ADMA17

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ADMA46

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ADMB04

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

ADNB01

MITRO, Alexander - GALLATZ, K. - PALKOVITS, M. - KISS, Alexander. Ependymal cells variations in the central canal of the rat spinal cord flum terminale: an ultrastructural investigation. In *Endocrine Regulations*, 2013, vol. 47, no. 2, p. 93-99. (2012: 0.528 - SJR). ISSN 1210-0668.

Citácie:

1. [1.2] ROSHDY, Karam - MORSY, Kareem - ABUMANDOUR, Mohamed M.A. Microscopic focus on ependymal cells of the spinal cord of the one-humped camel (Camelus dromedarius): Histological, immunohistochemical, and transmission microscopic study. In Microscopy Research and Technique, 2022-04-01, 85, 4, pp. 1238-1247. ISSN 1059910X. Dostupné na: <https://doi.org/10.1002/jemt.23990>, Registrované v: SCOPUS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Analytické monitorovanie hladín liečiv v praxi

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra farmaceutickej analýzy a nukleárnej farmácie

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Farmaceutická technológia

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra galenickej farmácie

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Farmakológia

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita veterinárskeho lekárstva a farmácie v Košiciach, Katedra farmakológie a toxikológie

doc. PharmDr. Juraj Piešťanský, PhD.

Názov semestr. predmetu: Analytické monitorovanie hladín liečiv v praxi

Počet hodín za semester: 8

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra farmaceutickej analýzy a nukleárnej farmácie

doc. PharmDr. Juraj Piešťanský, PhD.

Názov semestr. predmetu: Farmaceutická technológia

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra galenickej farmácie

Semestrálne cvičenia:

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Analytické monitorovanie hladín liečiv v praxi

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra farmaceutickej analýzy a nukleárnej farmácie

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Farmaceutická technológia

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická fakulta UK/Katedra galenickej farmácie

PharmDr. Andrej Kováč, PhD.

Názov semestr. predmetu: Farmakológia

Počet hodín za semester: 4

Názov katedry a vysokej školy: Univerzita veterinárskeho lekárstva a farmácie v Košiciach,
Katedra farmakológie a toxikológie

Semináre:

Terénne cvičenia:

Individuálne prednášky:

RNDr. Martin Čente, PhD.

Názov semestr. predmetu: Vybrané kapitoly z molekulárnej biológie/MicroRNA

Počet hodín za semester: 2

Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Prírodovedecká fakulta UK,
Bratislava/ Katedra molekulárnej biológie

Príloha A-5**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
Argentína					Ondrej Cehlár	35
					Andrej Durgala	89
					Andrej Kováč	35
					Stefana Njemoga	89
					Adam Polák	89
Česko					Ondrej Cehlár	30
					Stefana Njemoga	32
					Adam Polák	34
Indonézia					Andrej Kováč	34
					Petra Majerová	34
Počet vyslaní spolu					10	501

(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
Argentína					Diana Arguello	15
					Diego Bustos	75
					Exequiel Barrera	91
					Laura Pinto	15
					Lautaro Rivera	210
					Leandro Freitas	144
					Lorena Fonatana	240
					Marina	75

					Uhart	
					Martin Avila	165
					Oscar Bello	93
					Sergio Muller	240
Počet prijatí spolu					11	1363

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Česko	29th CYTOSKELETAL CLUB	Ondrej Cehlár	3
	AD-workshop No. 4	Neha Basheer	2
	SBMB	Miraj Ud Din Momad	2
	XX Discussions	Ondrej Cehlár	3
		Adam Polák	3
		Rostislav Škrabana	3
Česko (online)	AD workshop No.4	Ondrej Cehlár	1
	NMR & Structural Biology	Ondrej Cehlár	1
Grécko	2ND ML4NGP	Ondrej Cehlár	5
	2nd ML4NGP MEETING	Stefana Njemoga	4
		Adam Polák	5
Holandsko	TOLL 2024	Neha Basheer	4
Chorvátsko	HTCC6	Stefana Njemoga	6
		Adam Polák	6
	RBC	Ondrej Cehlár	5
		Stefana Njemoga	5
Kanada	PS38	Ondrej Cehlár	4
Maďarsko	IBBS	Jozef Hanes	2
		Krutika Khiratkar	3
		Petra Majerová	3
		Karoline Pichlerová	3
Nemecko	15th world congress on Targeting Mitochondria	Muhammad Khalid Muhammadi	3
Portugalsko	AD/PD™ 2024	Neha Basheer	5
		Muhammad Khalid Muhammadi	5
		Tomáš Smolek	5
Rakúsko	FENS	Miraj Ud Din Momad	5
Španielsko	FEPS-SECF 2024	Neha Basheer	3
	ML4NGP TRAINING SCHOOL	Adam Polák	4
USA	SfN	Miraj Ud Din Momad	5
Spolu	19	29	108

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

Skratky použité v tabuľke C:

15th world congress on Targeting Mitochondria - Targeting Mitochondria 2024: New Visionary Approaches
29th CYTOSKELETAL CLUB - "Cytoskeletal Dynamics Across Scales"
2ND ML4NGP - MEETING on Machine Learning and Non-globular proteins
2nd ML4NGP MEETING - MEETING on Machine Learning and Non-globular proteins
AD workshop No.4 - Fourth of our traditional AD-workshops
AD-workshop No. 4 - 4th Alzheimer's Disease workshop (AD-workshop).
AD/PD™ 2024 - AD/PD™ 2024: Striving for a better future for all those affected by neurodegenerative diseases
AD/PD™ 2024 - AD/PD™ 2024: Striving for a better future for all those affected by neurodegenerative diseases
FENS - FENS Forum 2024
FEPS-SECF 2024 - FEPS-SECF 2024 Conference
HTCC6 - HTCC6 workshop – Advanced macromolecular crystallography workshop
HTCC6 - HTCC6 – advanced macromolecular crystallography workshop
IBBS - 26th International Symposium on Signal Transduction at the Blood-Brain Barriers
ML4NGP TRAINING SCHOOL - ML4NGP-REFRACT TRAINING SCHOOL ON COMPUTATIONAL TOOLS
TO STUDY NON-GLOBULAR PROTEINS
NMR & Structural Biology - Vladimír Sklenář Memorial Conference on NMR & Structural Biology
PS38 - PS38 Annual Symposium
RBC - 10th Regional Biophysics Conference
SBMB - XXIV. setkání biochemiků a molekulárních biologů
SfN - Annual meeting of Society for Neuroscience (SfN)
TOLL 2024 - Toll 2024 Conference
XX Discussions - XX Discussions in Structural Molecular Biology

Príloha A-6**Vedecko-popularizačná činnosť pracovníkov organizácie**

Meno	Spolu autori	Typ¹	Názov	Miesto zverejnenia	Dátum alebo počet za rok
Ing. Ondrej Čehlár, PhD.		PB	STU FCHPT	23.4.2024	23.4.2024
RNDr. Martin Čente, PhD.		IN	“Otrasy mozgu ovplyvňujú život športovcov”,	https://www.ta3.com/relacia/932709/sport-z-5-aprila	5.4.2024
RNDr. Martin Čente, PhD.		TL	Hlavička ako hrozba? Základ je osвета/tlač	Hospodárske noviny	16.12.2024
RNDr. Martin Čente, PhD.		TV	TBI v kolektívnych športoch/ TV	Markíza - Televízne noviny	11.12.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Centrum nadania – Škola pre nadané deti CENADA	Bratislava	13.9.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	ESET4SCHOOLS	SND Bratislava	11.10.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Európska noc vedy 2024	Bratislava (Stará tržnica, V-klub)	27.9.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		TL	Majú čmeliaky, zebričky či raky nejakú formu vedomia? Je to možné, uvádza deklarácia/tlač	dennikn.sk	8.5.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		TL	Slovenskí vedci hojne publikujú vo vydavateľstve s predátorskými praktikami, končí v ňom až tretina otvorených článkov/tlač	dennikn.sk	9.1.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Spojená škola Pankúchova 6/prednáška	Bratislava	6.12.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Starmus Festival	Bratislava, Hlavné námestie	14.5.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Škola pre mimoriadne nadané deti a Gymnázium	Bratislava	21.3.2024
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Víkend so SAV v Trnave	Trnava	21.6.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	(Ne)schválenie lieku proti demencii	Týždeň	20.9.2024
doc. MVDr. Norbert Žilka, DrSc.		IN	Ako nová liečba demencie prekvapila medicínsky systém	https://www.aktuality.sk/autor/norbert-zilka/	27.2.2024
doc. MVDr. Norbert Žilka, DrSc.		PB	Biobanky ako príležitosť k personalizovanej medicíne	ITAPA Health and Care 2024, Bešeňová	27.3.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Črevná šikana nebezpečných baktérií	Týždeň	19.1.2024

doc. MVDr. Norbert Žilka, DrSc.		PB	Dokáže umelá inteligencia odhaliť rakovinu?	Biomedicínske centrum SAV, Dúbravská cesta 9, BA – Karlova Ves (Neuroimunologický ústav)	26.11.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Európa víta osýpky s otvorenou náručou	Týždeň	26.6.2024
doc. MVDr. Norbert Žilka, DrSc.		TV	Frontotemporálna demencia - choroba Brucea Willisa	RTVS - TV	7.3.2024
doc. MVDr. Norbert Žilka, DrSc.		IN	Génoví inžinieri vstupujú do ľudského mozgu	https://www.aktuality.sk/clanok/zWb9SgG/genovi-inzinieri-vstupuju-do-ludskeho-mozgu/	23.6.2024
doc. MVDr. Norbert Žilka, DrSc.		PB	Health Innovation Day „Tvorme inovácie na Slovensku, nielen ich nakupujeme“	Vedecký park UK, Ilkovičova 8, Bratislava	3.12.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Chemické potraviny pre silné žalúdky	Týždeň	29.11.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Imunita v cigaretovom dyme	Týždeň	23.2.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Milosrdný súboj vírusov a baktérií	Týždeň	18.10.2024
doc. MVDr. Norbert Žilka, DrSc.		IN	Mozgové správy ukryté v tukových nanočasticiach	https://www.aktuality.sk/clanok/VeXT8ND/mozgove-spravy-ukryte-v-tukovych-nanocasticiach/	27.10.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Môže byť DNA skladiškom našich spomienok?	Týždeň	31.5.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Nie normálne starnutie	Zdravie	27.1.2024
doc. MVDr. Norbert Žilka, DrSc.		IN	Norbert Žilka, Výnimočná osobnosť vedy na Slovensku, ESET Science Award 2024	HTTPS://YOUTU.BE/QF-INX2EKDI	9.10.2024
doc. MVDr. Norbert Žilka, DrSc.		IN	Novinky vo výskume demencie: potraviny, ktoré škodia mozgu, potenciálna liečba aj spoľahlivejšia diagnostika z krvi	https://dennikn.sk/4133858/novinky-vo-vyskume-demencie-potraviny-ktore-skodia-mozgu-potencialna-liecba-aj-spolahlivejsia-diagnostika-z-krvi/	7.8.2024
doc. MVDr. Norbert Žilka, DrSc.		RO	O novinkách v liečbe demencie s neuroimunológom Norbertom Žilkom	RTVS - Rádio Slovensko	15.2.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Pochybenia nervového energetického priemyslu	Týždeň	26.1.2024

doc. MVDr. Norbert Žilka, DrSc.		PB	Poznávame zlé molekuly	Karlova Univerzita v Prahe	15.6.2024
doc. MVDr. Norbert Žilka, DrSc.		PB	Prečo mozog starne rýchlejšie, keď jeme hamburgery?	Detská Univerzita Komenského	31.7.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Spoznávame spolupáchateľa migrény	Týždeň	23.8.2024
doc. MVDr. Norbert Žilka, DrSc.		TL	Starnutie mozgu s ručením obmedzeným	Týždeň	12.4.2024
doc. MVDr. Norbert Žilka, DrSc.		PB	Veda a inovácie v kúpeľníctve	NH Bratislava Gate One	5.12.2024

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

Príloha A-7

Vyznamenania, ceny a iné ocenenia udelené organizácii a jej pracovníkom v roku 2024

Domáce ocenenia

Ocenenia SAV

Durgala Andrej

DoktoGrant

Oceňovateľ: SAV

Opis: Mesenchymal stem cell therapy for the treatment of traumatic brain injury

James Kevin

DoktoGrant

Oceňovateľ: SAV

Opis: Defended minimal thesis (title of my thesis : Blood Brain Barrier transport system for therapy and diagnosis of neurodegenerative diseases).

Muhammadi Muhammad Khalid

DoktoGrant

Oceňovateľ: SAV

Opis: How Alzheimer's tau pathology causes mitochondrial dysfunction?

Njemoga Stefana

DoktoGrant

Oceňovateľ: SAV

Opis: Conformational study of AD-associated protein tau.

Iné domáce ocenenia

Bhide Mangesh Ramesh

KATEGÓRIA NAJLEPŠÍ VEDEC/VEDECKÝ TÍM KOŠICKÉHO KRAJA

Oceňovateľ: Technická Univerzita v Košiciach

Žilka Norbert

ESET award - nominácia

Oceňovateľ: ESET

Medzinárodné ocenenia

Ud Din Momad Miraj

Čestného uznanie za vydarený príspevok na konferencii.

Oceňovateľ: Faculty of Science at MUNI

Opis: Posterová prezentácia, ktorú vedecký výbor stretnutia považoval za vynikajúcu a získal čestné uznanie a cenu.

Uvádzajte v štruktúre: názov ocenenia, udeľujúca inštitúcia, meno a priezvisko ocenennej osoby.

Neuroimunologický ústav Slovenskej akadémie vied, v. v. i.



Výročná správa o činnosti a hospodárení za rok 2024

Bratislava 25.06.2025

ČASŤ B

ČASŤ B

Výročná správa o hospodárení organizácie za rok 2024

Obsah

19. Základné informácie o hospodárení organizácie
20. Prehľad príjmov a výdavkov
21. Pohyb a konečný stav majetku
22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku
23. Ďalšie údaje o hospodárení organizácie

[Údaje o spracovaní výročnej správy o hospodárení]

[Stanoviská orgánov v. v. i.]

[Údaje a elektronický podpis riaditeľa organizácie]

PRÍLOHY K ČASTI B

B-1 Ročná účtovná závierka

B-2 Správa štatutárneho audítora k ročnej účtovnej závierke

19. Základné informácie o hospodárení organizácie

(v zmysle §20, ods. 1 zákona č. 431/2002 Z. z. o účtovníctve)

Informácie o zmenách zakladacej listiny, vnútorných predpisoch verejnej výskumnej inštitúcie alebo vnútorných predpisoch zakladateľa podľa § 4 ods. 1.

Zmeny zakladacej listiny

Ku dňu poskytnutia informácie organizácia neviduje zmenu zakladacej listiny zakladateľom, ani o poskytnutí písomných vyjadrení vedeckej alebo dozornej rady organizácie k takejto navrhovanej zmene podľa § 4 ods. 3 zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov v znení neskorších právnych predpisov.

Zmeny vnútorných predpisov

Neuroimunologický ústav SAV, v. v. i. vydal vnútorné predpisy pri vzniku, účinné od 1. 1. 2022. V priebehu roka 2024 nenastali žiadne zmeny.

Informácie o zložení orgánov, o zmenách v ich zložení a o ich činnosti

Zloženie jednotlivých orgánov a ich obsadenie je uvedené na webovej stránke ústavu.

<https://niu.sav.sk/about-niu/board-of-directors/>

<https://niu.sav.sk/about-niu/scientific-board/>

Informácie o členoch orgánov uvádzame aj v Poznámkach k účtovnej závierke.

Činnosť Správnej rady a Vedeckej rady NIÚ SAV, v. v. i. je zdokumentovaná v jednotlivých zápisniciach z ich zasadnutí.

Činnosť Správnej rady NIU SAV, v. v.i.

Správna rada NIÚ SAV, v. v. i. v roku 2024 zasadala 7 krát.

Činnosť Vedeckej rady NIU SAV, v. v.i.

Vedecká rada NIÚ SAV, v. v. i. v roku 2024 zasadala 8 krát.

Opis činnosti účtovnej jednotky:

(1) Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky (ďalej tiež „odbornosti“):

a) Biologické vedy (010600), najmä v odboroch vedy a techniky:

- i) Imunológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske vedy a lesnícke vedy) (010611),
- ii) Mikrobiológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010612),
- iii) Molekulárna biológia (010613),
- iv) Neurovedy (010617),
- v) Parazitológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010620)

b) Lekárske vedy (030000), najmä v odboroch vedy a techniky:

- i) Normálna a patologická fyziológia (030106),
- ii) Ostatné príbuzné odbornosti základných odborov lekárskeho a farmaceutického vied (030199),
- iii) Klinické lekárske vedy (030200),
- iv) Neurológia (030206),
- v) Psychiatria (030212),
- vi) Klinická biochémia (030218),
- vii) Ostatné príbuzné odbornosti klinických odborov lekárskeho vied (030299),
- viii) Zdravotné vedy (030300),
- ix) Biotechnológie v zdravotníctve (030400)

c) Veterinárske vedy (040300)

d) Biotechnológie v poľnohospodárstve (040400)

e) Psychologické vedy (050100), najmä v odbore Klinická psychológia (050102)

f) Logopédia (050303),

g) Bioinformatika (010202)

h) Biofyzika (aj pre lekárske, farmaceutické, veterinárne a poľnohospodárske, lesnícke a chemické vedy) (010303)

i) Chemické vedy (010400), najmä v odboroch vedy a techniky:

i) Biochémia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010403),

ii) Bioorganická chémia (010406)

j) Priemyselná biotechnológia (021000), najmä v odboroch vedy a techniky:

i) Biopostupy v technológiách (021001),

ii) Bioprodukty (021004),

iii) Biomasa a špecifické biochemikálie (021008),

iv) Ostatné príbuzné odbory priemyselnej biotechnológie (021099)

(2) Ďalšími hlavnými činnosťami organizácie sú:

- zabezpečovanie a správa infraštruktúry výskumu a vývoja, ku ktorej má organizácia vlastnícke právo alebo iné právo; rozsah infraštruktúry výskumu a vývoja, práva ku ktorej organizácia nadobudne zmenou právnej formy organizácie na verejnú výskumnú inštitúciu dňa 1.1.2022, bude vyplývať z protokolu medzi Slovenskou akadémiou vied a organizáciou podľa § 21aa ods. 11 zákona o akadémii,
- získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky, a tiež poznatkov z vlastného výskumu a vývoja
- podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia v študijnom odbore Biológia
- spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi, a to v odboroch uvedených v odseku 1.
- vykonávanie činností podľa osobitných predpisov

19.1 Prehľad základných finančných ukazovateľov

	K 31. 12. 2024	k 31. 12. 2023
Finančné výsledky (v euro)		
Aktíva	3 072 822,94	2 995 876,83
Neobežný majetok	1 835 882,56	999 245,78
Dlhodobý nehmotný majetok	0,00	0,00
Dlhodobý hmotný majetok	1 835 882,56	999 245,78
Dlhodobý finančný majetok		
Obežný majetok	1 234 897,31	1 996 453,09
Zásoby	105,01	111,66
Dlhodobé pohľadávky		
Krátkodobé pohľadávky	16 069,43	1 553 099,76
Finančné účty	1 218 722,87	443 241,67
Časové rozlíšenie	2 043,07	177,96
Pasíva	3 072 822,94	2 995 876,83
Vlastné imanie	-23 438,57	-62 966,58
Základné imanie	30 472,02	30 472,02
Nevysporiadaný HV minulých rokov	-93 438,60	-92 836,34
Výsledok hospodárenia za účtovné obdobie	39 528,01	-602,26
Závazky	1 069 810,40	72 716,39
Zúčtovanie medzi subjektami VS (2022)		
Dlhodobé záväzky	751,53	888,87
Krátkodobé záväzky	1 069 058,87	71 827,52
Bankové úvery a iná výpomoc a pôžičky		
Časové rozlíšenie	2 026 451,11	2 986 127,02
Výkaz ziskov a strát		
Výsledok hospodárenia z hlavnej činnosti pred	52 283,55	-602,26
Tržby z predaja tovarov a služieb	38 710,00	15 419,00
Iné ostatné výnosy	61 324,45	36 564,40
Dotácie	3 785 214,45	2 503 348,81
Transfery (2021)		
Prijaté príspevky od právnických osôb		397 466,30
Celkové náklady účtovná trieda 5.	3 832 965,35	2 953 400,77
Výsledok hospodárenia pred zdanením	52 283,55	-602,26
Výsledok hospodárenia pred zdanením	52 283,55	-602,26
Výsledok hospodárenia po zdanení	39 528,01	-602,26

19.2 Ďalšie informácie o stave a vývoji organizácie z hľadiska hospodárenia

a) Udalosti osobitného významu po 31. 12. 2024 z hľadiska hospodárenia organizácie

Po uzavretí účtovného obdobia kalendárneho roka 2024 nenastali udalosti zásadného významu z hľadiska hospodárenia organizácie.

b) Predpokladaný budúci vývoj organizácie v roku 2025

V roku 2025 organizácia plánuje realizovať viaceré aktivity, ktoré budú mať významný vplyv na jej odborné smerovanie aj hospodárenie. Medzi najdôležitejšie predpokladané oblasti rozvoja patria:

- **Realizácia nových vedecko-výskumných projektov:** Organizácia sa plánuje aktívne zapojiť do domácich a medzinárodných výskumných grantových schém, vrátane programov Horizont Európa a APVV, čo si vyžiada predbežné investície do infraštruktúry a personálnych kapacít.
- **Modernizácia laboratórneho vybavenia:** Pokračujeme v systematickej obnove výskumných technológií, čo bude mať dopad na kapitálové výdavky, ale zároveň zvýši kvalitu výskumu a konkurencieschopnosť.
- **Rozšírenie medzinárodnej spolupráce:** Očakáva sa rozvoj partnerstiev so zahraničnými inštitúciami, čo môže viesť k novým projektom a mobilitám, ako aj k zvýšeniu príjmov z medzinárodných zdrojov.
- **Podpora mladých vedeckých pracovníkov a doktorandov:** Organizácia plánuje zvýšiť podporu mladých vedcov prostredníctvom zapojenia do výskumných projektov, čo môže ovplyvniť štruktúru personálnych nákladov.

Tieto aktivity sú v súlade s dlhodobým strategickým zameraním organizácie, s dôrazom na excelentnosť vo výskume a interdisciplinárnu spoluprácu, ktorá bude spájať odborníkov z rôznych oblastí (neuroológia, imunológia, molekulárna biológia), ktorá umožní komplexnejší pohľad na výskum neuroimunitných ochorení a bude prispievať k efektívnejšiemu hľadaniu nových diagnostických a terapeutických prístupov.

c) Náklady na činnosť v oblasti výskumu a vývoja

V súlade so zameraním inštitúcie sú všetky náklady v. v. i. vykazované v časti výkazu ziskov a strát účtovnej závierky nákladmi na činnosť v oblasti výskumu a vývoja. Organizácia v roku 2024 vykázala aj zdaňovanú činnosť z dôvodu prenájmu nehnuteľnosti.

d) Návrh na rozdelenie zisku alebo vyrovnanie straty

O rozdelení zisku alebo vyrovnávaní strát rozhoduje správna rada v spolupráci s dozornou radou organizácie, v súlade so zákonom č. 243/2017 Z. z. o verejnej výskumnej inštitúcii. Zisk z roku 2024 navrhuje manažment organizácie preúčtovať na účet Nevysporiadaný výsledok hospodárenia minulých rokov.

e) Ostatné informácie súvisiace s hospodárením v. v. i.

f) Informácia o konsolidácii účtovníctva organizácie:

Rozpočet organizácie je súčasťou konsolidovaného celku rozpočtovej kapitoly SAV.

20. Prehľad príjmov a výdavkov

(v zmysle § 27, ods. 4, písm. g zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Príjmy a výdavky z hlavnej činnosti

	FP k 01.01.2024	Schválený rozpočet	Upravený rozpočet	Skutočnosť	Zostatok FP k 31.12.2024
1	2	3	4	5	6
Príjmy spolu	442 509,40	1 913 786,00	4 477 870,89	4 607 172,89	0,00
Z toho:					
ŠR ZDROJ 131	37 438,38	x	x	x	0,00
ŠR ZDROJ 111 (IFP)	0,00	1 149 540,00	1 631 222,81	1 631 222,81	0,00
ŠR ZDROJ 111 (APVV)	0,00	496 050,00	727 081,00	856 383,00	0,00
ŠR ZDROJ 111 (MŠVaV)	0,00	238 196,00	336 536,00	336 536,00	0,00
ŠR ZDROJ 111 (VZ)	0,00	0,00	358 844,00	358 844,00	0,00
Plán obnovy ZDROJ 3P01	10 792,16	0,00	877 782,26	877 782,26	0,00
Spolu zo ŠR	48 230,54	1 883 786,00	3 931 466,07	4 060 768,07	0,00
Zahraničie ZDROJ 35					0,00
Zahraničné granty ZDROJ 11GR a 13 GR	366 847,18	0,00	283 583,87	283 583,87	0,00
Vlastné zdroje ZDROJ 46	27 431,68	30 000,00	262 820,95	262 820,95	0,00
Výdavky spolu		1 913 786,00	4 477 870,89	3 831 710,95	1 217 971,34
Z toho:					
ŠR ZDROJ 131	x	x	x	37 438,38	0,00
ŠR ZDROJ 111 (IFP)	x	1 149 540,00	1 631 222,81	1 630 882,81	340,00
ŠR ZDROJ 111 (POO)	x	0,00	877 782,26	221 557,12	667 017,00
ŠR ZDROJ 111 (APVV)	x	496 050,00	727 081,00	703 219,07	23 862,53
ŠR ZDROJ 111 (MŠVaV)	x	238 196,00	336 536,00	336 536,00	0,00
ŠR ZDROJ 111 (VZ)	x	0,00	358 844,00	358 844,00	0,00
Spolu zo ŠR	x	1 883 786,00	3 931 466,07	3 288 477,38	691 219,53
Zahraničie ZDROJ 35	x				
Zahraničné granty ZDROJ 11GR a 13 GR	x	0,00	283 583,87	408 306,09	242 124,96
Vlastné zdroje ZDROJ 46	x	30 000,00	262 820,95	134 927,48	155 324,85

Všeobecné zhrnutie

Organizácia začala rok 2024 so zostatkom finančných prostriedkov vo výške 442 509,40€. Počas roka mala schválený rozpočet 1 913 786,00€, ktorý bol následne upravený na 4 477 870,89€.

Skutočný príjem predstavoval 4 607 172,89€. Rozdiel medzi upraveným rozpočtom a skutočnosťou je vo výške 129 302,00€, čo je suma finančných prostriedkov APVV roku 2025 prijatých na účet v roku 2024.

Na strane výdavkov bolo skutočne vyčerpaných 3 831 710,95€. Rozdiel 1 217 971,34€ organizácia prenáša do roku 2025 ako zostatky na BÚ v Štátnej pokladnici.

Celkovo možno konštatovať, že organizácia hospodárila efektívne a v súlade s plánovanými finančnými zdrojmi. Významné navýšenie upraveného rozpočtu počas roka odráža úspešnosť pri získavaní externých a štátnych grantov. Zostatky, najmä z POO a zahraničných grantov súvisia s plánovanou viacročnou realizáciou projektov, pričom ich čerpanie sa očakáva v priebehu roka 2025.

Príjmy a výdavky (v zmysle zákona č. 243/2017 Z. z.)	Príjmy	Výdavky
z hlavnej činnosti okrem druhého a tretieho bodu	4 607 172,89	3 831 710,95
činnosti podľa § 2 ods. 1 písm. a) zákona		
činnosti podľa § 2 ods. 1 písm. b) zákona		
činnosti podľa § 2 ods. 1 písm. c) zákona		
činnosti podľa § 2 ods. 1 písm. d) zákona		
činnosti podľa § 2 ods. 1 písm. e) zákona		

Rekapitulácia príjmov a výdavkov podľa jednotlivých zdrojov a kategórií

Príjmy a výdavky v jednotlivých ekonomických kategóriách predstavujú jednotlivé druhy príjmov a výdavkov, ktoré boli v roku 2024 prijaté a čerpané na účtoch v štátnej pokladnici. Prehľad zahŕňa aj štruktúru podľa jednotlivých zdrojov. Príjmové a výdavkové kategórie použité v roku 2024:

Príjmové kategórie		Výdavkové kategórie	
200	Nedaňové príjmy	600	Bežné výdavky
212	Príjmy z vlastníctva	610	Mzdy, platy, služobné príjmy a ostatné osobné vyrovnania
223	Poplatky a platby z nepriem. A náhodného predaja služieb	620	Poistné a príspevok do poisťovní
300	Granty a transfery	630	Tovary a služby
311	Granty	640	Bežné transfery
312001	Zo ŠR – (SAV inštit.príspevok, APVV, Plán obnovy)	700	Kapitálové výdavky
312011	Od ostatných subjektov verejnej správy	710	Obstarávanie kapitálových aktív – (SAV inštitucionálny príspevok, vlastné zdroje)
320	Kapitálové granty a transfery		
322	Zo ŠR – SAV inštitucionálny príspevok		
330	Zahraničné granty		
400	Príjmy z transakcií s fin. aktívami a pasívami		
453	Zostatok z predchádzajúcich rokov		

EK	ŠTRUKTÚRA PRÍJMOV A VÝDAVKOV 2024			
	v eurách	Spolu 2024 Hlavná činn.	Spolu 2024 Podnik.činn.	2024 Celkom
	PRÍJMY spolu	4 607 172,89	0,00	4 607 172,89
	<i>z toho:</i>			
200	Nedaňové príjmy, v tom:	112 820,95	0,00	112 820,95
210	Príjmy z podnikania a vlastníctva majetku, v tom:	47 310,95	0,00	47 310,95
212003	Z prenájatých budov, priestorov a objektov	47 310,95	0,00	47 310,95
220	Administratívne a iné poplatky, v tom:	65 510,00	0,00	47 310,95
223001	Za predaj výrobkov , tovarov a služieb	65 510,00	0,00	65 510,00
300	Granty a transfery	4 494 351,94	0,00	4 494 351,94
310	Bežné granty a transfery, v tom:	4 202 688,07	0,00	4 202 688,07
311	Granty – zdroj 46	150 000,00	0,00	150 000,00
312001	Zo ŠR, v tom:	3 883 130,07	0,00	3 883 130,07
	POO	877 782,26	0,00	877 782,26
	SAV – Inštitucionálny príspevok	1 623 142,81	0,00	1 623 142,81
	SAV – výkonnostné zmluvy	358 844,00	0,00	358 844,00
	APVV	1 023 361,00	0,00	1 023 361,00
312011	Od ostatných subjektov verejnej správy	169 558,00	0,00	169 558,00
320	Kapitálové granty a transfery, v tom:	8 080,00	0,00	8 080,00
322001	Zo ŠR:	8 080,00	0,00	8 080,00
330	Zahraničné granty, v tom:	283 583,87	0,00	283 583,87
331001	Od zahraničného subjektu	283 583,87	0,00	283 583,87
400	Príjmy z transakcií s fin. akt. a pas, v tom: (FO)	442 509,40	00,0	442 509,40
453	Zostatok z predchádzajúcich rokov, v tom:	442 509,40	0,00	442 509,40
	Zdroj 131	37 438,38	0,00	37 438,38
	ostatné	405 071,02	0,00	405 071,02
	v eurách	Spolu 2024 Hlavná činn.	Spolu 2024 Podnik.činn.	2024 Celkom
	Výdavky spolu	3 831 710,95	0,00	3 831 710,95
	<i>z toho:</i>			
600	Bežné výdavky, v tom:	3 785 292,43	0,00	3 785 292,43
610	Mzdy, v tom:	1 318 419,40	0,00	1 318 419,40
	POO	98 698,00	0,00	98 698,00
	SAV – inštitucionálny príspevok	854 201,72	0,00	854 201,72
	SAV – výkonnostné zmluvy	23 305,00	0,00	23 305,00
	APVV	189 537,00	0,00	189 537,00
	MŠVaV	75 000,00	0,00	75 000,00
	Zahraničné granty	77 676,00	0,00	77 676,00
	ostatné z vlastných zdrojov	1,08	0,00	1,08
620	Poistné, v tom:	476 324,14	0,00	476 324,14
	POO	36 539,69	0,00	36 539,69
	SAV – inštitucionálny príspevok	309 224,46	0,00	309 224,46
	SAV – výkonnostné zmluvy	8 435,00	0,00	8 435,00
	APVV	66 755,00	0,00	66 755,00
	MŠVaV	26 336,00	0,00	26 336,00
	Zahraničné granty	28 118,71	0,00	28 118,71
	ostatné z vlastných zdrojov	915,28	0,00	915,28
630	Tovary a služby, v tom:	1 742 174,53	0,00	1 742 174,53

	POO	86 318,83	0,00	86 318,83
	SAV – inštitucionálny príspevok	301 479,80	0,00	301 479,80
	SAV – výkonnostné zmluvy	327 104,00	0,00	327 104,00
	APVV	390 456,07	0,00	390 456,07
	MŠVaV	235 200,00	0,00	235 200,00
	Zahraničné granty	302 511,38	0,00	302 511,38
	Zdroj 131	37 438,38	0,00	37 438,38
	ostatné z vlastných zdrojov	61 666,07	0,00	61 666,07
640	Bežné transfery, v tom:	248 374,36	0,00	248 374,36
	SAV – inštitucionálny príspevok	157 896,83	0,00	157 896,83
	APVV	56 471,00	0,00	56 471,00
	ostatné z vlastných zdrojov	34 006,53	0,00	34 006,53
700	Kapitálové výdavky	46 418,52	0,00	46 418,52
710	Obstarávanie kapitálových aktív, v tom:	46 418,52	0,00	46 418,52
	SAV – inštitucionálny príspevok	8 080,00	0,00	8 080,00
	ostatné z vlastných zdrojov	38 338,52	0,00	38 338,52
800	Výdavky z transakcií s fin.akt. a fin. pas.(FO)	0,00	0,00	0,00
	Celkový schodok/prebytok(+/-)	775 461,94	0,00	775 461,94
	Vylúčenie finančných operácií	0,00	0,00	0,00
	Vylúčenie príjmových FO	-50 500,00	0,00	-50 500,00
	Vylúčenie výdavkových FO	-50 500,00	0,00	-50 500,00
	Prebytok/schodok (+/-) v. v. i.	775 461,94	0,00	775 461,94
	Príjmy v. v. i. celkom	4 607 172,89	0,00	4 607 172,89
	Výdavky v. v. i. celkom	3 831 710,95	0,00	3 831 710,95
	Prebytok/schodok (+/-) v. v. i.	775 461,94	0,00	775 461,94

21. Pohyb a konečný stav majetku

(v zmysle § 27, ods. 4, písm. h zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

Majetok

(celkové aktíva brutto)

	2024	2023
Celkové aktíva [€]	6 455 283,36	6 279 961,16
Nárast aktív [%]	2,79%	
Pokles aktív [%]		

Štruktúra majetku

(aktíva brutto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhodobý nehmotný majetok	14 220,50	0,22%	14 220,50	0,23%
Dlhodobý hmotný majetok	5 204 122,48	80,62%	4 269 109,61	67,98%
Dlhodobý finančný majetok	-	-	-	-
Dlhodobé pohľadávky	-	-	-	-
Krátkodobé pohľadávky	16 069,43	0,25%	1 553 099,76	24,73%
Zásoby	105,01	0,00%	111,66	0,00%
Dlhodobé pohľadávky	-	-	-	-
Finančné účty	1 218 722,87	18,88%	443 241,67	7,06%
Časové rozlíšenie	2 043,07	0,03%	177,96	0,00%
Aktíva (Majetok brutto)	6 455 283,36	100,00%	6 279 961,16	100%

Majetok

(celkové aktíva netto)

	2024	2023
Celkové aktíva [€]	3 072 822,94	2 995 876,83
Nárast aktív [%]	2,57%	
Pokles aktív [%]		

Štruktúra majetku

(aktíva netto)

	2024		2023	
	v euro	(%) podiel	v euro	(%) podiel
Dlhod. nehmotný majetok	-	-	-	-
Dlhodobý hmotný majetok	1 835 882,56	59,75%	999 245,78	33,35%
Dlhodobý finančný majetok	-	-	-	-
Dlhodobé pohľadávky	-	-	-	-
Krátkodobé pohľadávky	16 069,43	0,25%	1 553 099,76	51,84%
Zásoby	105,01	0,00%	111,66	0,00%
Dlhodobé pohľadávky	-	-	-	-
Finančné účty	1 218 722,87	39,66%	443 241,67	14,80%
Časové rozlíšenie	2 043,07	0,07%	177,96	0,01%
Aktíva	3 072 822,94	100,00%	2 995 876,83	100,00%

22. Opatrenia na odstránenie nedostatkov v hospodárení a správa o plnení opatrení prijatých na odstránenie nedostatkov z predchádzajúceho roku

(v zmysle § 27, ods. 4, písm. i zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

V roku 2024 neboli uložené opatrenia na odstránenie nedostatkov v hospodárení.

23. Ďalšie údaje o hospodárení organizácie

(v zmysle § 27, ods. 4, písm. j zákona č. 243/2017 Z. z. o verejnej výskumnej inštitúcii)

23.1. Výdavky organizácie – štruktúra zdrojov

Tabuľka 23a Výdavky organizácie podľa štruktúry zdrojov (skutočnosť k 31. 12. 2024 v €)

Typ organizácie (VII)		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	3 785 292,43	1 985 452,79	1 294 944,59	504 895,05	52,46
Z toho:					
mzdy (610)	1 318 419,40	877 506,72	363 235,60	77 677,08	66,56
vedecká výchova štipendiá (640)	164 894,93	156 264,43		8 630,50	94,77
poistné a príspevok do poisťovní (620)	476 324,14	317 659,46	129 630,69	29 033,99	66,69
tovary a služby (630)	1 742 174,53	632 389,78	745 607,30	364 177,45	36,31
transfery partnerom projektov (640)	83 479,43	1 632,40	56 471,00	25 376,03	1,96
2. Kapitálové výdavky	46 418,52	8 080,00		38 338,52	17,41
Z toho:					
obstarávanie kapitálových aktív					
kapitálové transfery	46 418,52	8 080,00		38 338,52	17,41

23.2. Zdroje financovania organizácie

Tabuľka 23b Zdroje financovania organizácie (skutočnosť k 31. 12. 2024 v €)

		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)	1 990 066,81	8 080,00	87 7506,72	317 659,46	1 632,40
Z toho:					
VEGA	89 959,00				
MVTS výskumné projekty	24 060,62	8 080,00			
MVTS podpora	23 085,00				
SASPRO/MOREPRO/ IMPULZ					
Vydávanie časopisov					
Doktorandské štúdium (štipendiá)	156 298,61				
OTAS (630)	491 785,00				
Iné					
2. ŠF EÚ vr. fin. zo ŠR					
3. medzinárodné grantové projekty	283 583,87		77 767,00	28 118,71	
Z toho:					
H2020	283 583,87		77 767,00	28 118,71	
Iné					
4. iné štátne a verejné zdroje (spolu)	1 941 399,26		363 235,60	129 630,69	
Z toho					
APVV	727 782,26		189 537,00	66 755,00	56 471,00
podpora z kapitoly MŠVVaŠ	336 536,00		75 000,00	263 36,00	

SR (stimuly)					
Iné					
5. ostatné zdroje	112 820,95	38 338,52	77 677,08	915,28	34 006,53
Z toho:					
príjmy z prenájmu	47 310,95				
príjmy z podnikateľskej činnosti					
príjmy z expertnej činnosti a služieb	65 510,00				
Iné					

23.3 Ostatné údaje o hospodárení organizácie

Organizácia nevykonáva podnikateľskú činnosť, ale vykonáva činnosť podliehajúci dani z príjmov, ktorá sa eviduje oddelene od hlavnej činnosti.

Výročnú správu o hospodárení organizácie zostavil(i):

Doc. MVDr. Norbert Žilka, DrSc.

Dagmar Kutná

Stanoviská orgánov v. v. i. k výročnej správe o činnosti a hospodárení organizácie

Stanovisko správnej rady

Správna rada v zložení:

doc. MVDr. Norbert Žilka, DrSc. – predseda

PharmDr. Andrej Kováč, PhD. – člen

prof. RNDr. Eva Kontseková, DrSc. – člen

doc. RNDr. Peter Filipčík, CSc. – člen

prof. MVDr. Daša Čížková, DrSc.- člen

na svojom zasadnutí dňa 21.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Neuroimunologického ústavu SAV, v. v. i. v roku 2024.

Stanovisko vedeckej rady

Vedecká rada v zložení:

Mgr. Branislav Kováčech, PhD. – predseda vedeckej rady

RNDr. Rostislav Škrabana, PhD. – člen Snemu SAV za organizáciu

RNDr. Monika Žilková, PhD. – člen za organizáciu

prof. MVDr. Juraj Pistl, PhD. – ext. člen

prof. MVDr. Emil Pilipčinec, PhD. – ext. člen

na svojom zasadnutí dňa 21.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Neuroimunologického ústavu SAV, v. v. i. v roku 2024.

Stanovisko dozornej rady

Dozorná rada v zložení:

prof. RNDr. Ľubica Lacinová, DrSc.

JUDr. Glória Gajdošová

prof. MUDr. Milan Buc, DrSc.

na svojom zasadnutí dňa 23.07.2025 skonštatovala, že predložená výročná správa poskytuje potrebný prehľad a požadované údaje o činnosti a hospodárení Neuroimunologického ústavu SAV, v. v. i. v roku 2024.

Bratislava, 25.06.2025

Norbert
Žilka



Digitally signed
by Norbert Žilka
Date: 2025.07.30
15:11:16 +02'00'

Doc. MVDr. Norbert Žilka, DrSc.

PRÍLOHY K ČASTI B

Príloha B-1 Ročná účtovná závierka

Príloha B-2 Správa štatutárneho audítora k ročnej účtovnej uzávierke

K ročnej účtovnej závierke za rok 2024 nebola vyhotovená správa audítora.

ÚČTOVNÁ ZÁVIERKA

neziskovej účtovnej jednotky účtujúcej
v sústave podvojného účtovníctva

zostavená k 3 1 . 1 2 . 2 0 2 4

Daňové identifikačné číslo	Účtovná závierka	Mesiac Rok
2 0 2 0 9 2 1 3 2 0	☒ riadna	od 1 2 0 2 4
IČO	☐ mimoriadna	do 1 2 2 0 2 4
3 1 7 4 8 3 3 3	☐ priebežná	Bezprostredne predchádzajúce obdobie
SK NACE	(vyznačí sa x)	od 1 2 0 2 3
7 2 . 1 9 . 0		do 1 2 2 0 2 3

Priložené súčasti účtovnej závierky

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

Názov účtovnej jednotky

N e u r o i m u n o l o g i c k ý ú s t a v S A V , v . v . i .

Sídlo účtovnej jednotky

Ulica

D Ú B R A V S K Á C E S T A

Číslo

9

PSČ

Obec

8 4 5 1 0 B R A T I S L A V A

Telefónne číslo

0 9 1 8 / 8 9 0 8 5 6

E-mailová adresa

D A G M A R . K U T N A @ S A V B A . S K

Zostavená dňa:

2 8 . 0 3 . 2 0 2 5

Schválená dňa:

. . 2 0

Podpisový záznam
štatutárneho orgánu alebo
člena štatutárneho orgánu
účtovnej jednotky:

Účtovná zvierka

Úč NUJ (MF/011079/2021-74)
k 31.12.2024 pre IČO: 31748333

Strana aktív

	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	1	5 218 342,98	3 382 460,42	1 835 882,56	999 245,78
A.I.	Dlhodobý nehmotný majetok r. 003 až r. 008	2	14 220,50	14 220,50	0,00	0,00
A.I.1.	Nehmotné výsledky z vývojevej a obdobnej činnosti 012-(072+091AÚ)	3	0,00	0,00	0,00	0,00
2.	Softvér 013 - (073 + 091AÚ)	4	14 220,50	14 220,50	0,00	0,00
3.	Oceniteľné práva 014 - (074 + 091AÚ)	5	0,00	0,00	0,00	0,00
4.	Ostatný dlhodobý nehmotný majetok (018 + 019)-(078 + 079 + 091 AÚ)	6	0,00	0,00	0,00	0,00
5.	Obstaranie dlhodobého nehmotného majetku (041 - 093)	7	0,00	0,00	0,00	0,00
6.	Poskytnuté preddavky na dlhodobý nehmotný majetok (051- 095AÚ)	8	0,00	0,00	0,00	0,00
A.II.	Dlhodobý hmotný majetok r. 010 až r. 020	9	5 204 122,48	3 368 239,92	1 835 882,56	999 245,78
A.II.1	Pozemky (031)	10	30 472,02	0,00	30 472,02	30 472,02
2.	Umelecké diela a zbierky (032)	11	0,00	0,00	0,00	0,00
3.	Stavby 021 - (081 + 092AÚ)	12	943 233,93	280 432,39	662 801,54	672 745,97
4.	Samostatné hnuťelné veci a súbory hnuťelných vecí 022 - (082 + 092AÚ)	13	3 287 157,15	3 056 809,02	230 348,13	288 008,19
5.	Dopravné prostriedky 023 - (083 + 092AÚ)	14	30 998,51	30 998,51	0,00	0,00
6.	Pestovateľské celky trvalých porastov 025 - (085 + 092AÚ)	15	0,00	0,00	0,00	0,00
7.	Základné stádo a ťažné zvieratá 026 - (086 + 092AÚ)	16	0,00	0,00	0,00	0,00
8.	Drobný dlhodobý hmotný majetok 028 - (088 + 092AÚ)	17	0,00	0,00	0,00	0,00
9.	Ostatný dlhodobý hmotný majetok 029 - (089 +092AÚ)	18	0,00	0,00	0,00	0,00
10.	Obstaranie dlhodobého hmotného majetku (042 - 094)	19	912 260,87	0,00	912 260,87	8 019,60
11.	Poskytnuté preddavky na dlhodobý hmotný majetok (052 - 095AÚ)	20	0,00	0,00	0,00	0,00
A.III.	Dlhodobý finančný majetok r. 022 až r. 028	21	0,00	0,00	0,00	0,00
A.III.1	Podielové cenné papiere a podiely v obchodných spoločnostiach v ovládanej osobe (061- 096 AÚ)	22	0,00	0,00	0,00	0,00
2.	Podielové cenné papiere a podiely v obchodných spoločnostiach s podstatným vplyvom (062 - 096 AÚ)	23	0,00	0,00	0,00	0,00
3.	Dlhové cenné papiere držané do splatnosti (065 - 096 AÚ)	24	0,00	0,00	0,00	0,00
4.	Pôžičky podnikom v skupine a ostatné pôžičky (066 + 067) - 096 AÚ	25	0,00	0,00	0,00	0,00
5.	Ostatný dlhodobý finančný majetok (069 - 096 AÚ)	26	0,00	0,00	0,00	0,00
6.	Obstaranie dlhodobého finančného majetku (043 - 096 AÚ)	27	0,00	0,00	0,00	0,00
7.	Poskytnuté preddavky na dlhodobý finančný majetok (053 - 096 AÚ)	28	0,00	0,00	0,00	0,00

Strana aktív

	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	29	1 234 897,31	0,00	1 234 897,31	1 996 453,09
B.I.	Zásoby r. 031 až r. 036	30	105,01	0,00	105,01	111,66
B.I.1.	Materiál (112 + 119) - 191	31	105,01	0,00	105,01	111,66
2.	Nedokončená výroba a polotovary vlastnej výroby (121+122)-(192+193)	32	0,00	0,00	0,00	0,00
3.	Výrobky (123 - 194)	33	0,00	0,00	0,00	0,00
4.	Zvieratá (124 - 195)	34	0,00	0,00	0,00	0,00
5.	Tovar (132 + 139) - 196	35	0,00	0,00	0,00	0,00
6.	Poskytnuté prevádzkové preddavky na zásoby (314 AÚ - 391 AÚ)	36	0,00	0,00	0,00	0,00
B.II.	Dlhodobé pohľadávky r. 038 až r. 041	37	0,00	0,00	0,00	0,00
1.	Pohľadávky z obchodného styku (311 AÚ až 314 AÚ) - 391 AÚ	38	0,00	0,00	0,00	0,00
2.	Ostatné pohľadávky (315 AÚ - 391AÚ)	39	0,00	0,00	0,00	0,00
3.	Pohľadávky voči účastníkom združení (358AÚ - 391AÚ)	40	0,00	0,00	0,00	0,00
4.	Iné pohľadávky (335 AÚ + 373 AÚ + 375 AÚ + 378AÚ) - 391AÚ	41	0,00	0,00	0,00	0,00
B.III.	Krátkodobé pohľadávky r. 043 až r. 050	42	16 069,43	0,00	16 069,43	1 553 099,76
B.III.1.	Pohľadávky z obchodného styku (311AÚ až 314 AÚ) - 391AÚ	43	12 508,24	0,00	12 508,24	331,24
2.	Ostatné pohľadávky (315 AÚ - 391 AÚ)	44	0,00	0,00	0,00	0,00
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	45	0,00	X	0,00	0,00
4.	Daňové pohľadávky (341 až 345)	46	338,20	X	338,20	1 208,36
5.	Pohľadávky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+ 348)	47	0,00	X	0,00	1 551 560,16
6.	Pohľadávky voči účastníkom združení (358 AÚ - 391AÚ)	48	0,00	0,00	0,00	0,00
7.	Spojovací účet pri združení (396 - 391AÚ)	49	0,00	0,00	0,00	0,00
8.	Iné pohľadávky (335AÚ + 373AÚ + 375AÚ + 378AÚ) - 391AÚ	50	3 222,99	0,00	3 222,99	0,00
B.IV.	Finančné účty r. 052 až r. 056	51	1 218 722,87	0,00	1 218 722,87	443 241,67
B.IV.1.	Pokladnica (211 + 213)	52	0,00	X	0,00	0,00
2.	Bankové účty (221 AÚ + 261)	53	1 218 722,87	X	1 218 722,87	443 241,67
3.	Bankové účty s dobou viazanosti dlhšou ako jeden rok (221 AÚ)	54	0,00	X	0,00	0,00
4.	Krátkodobý finančný majetok (251 + 253 + 255AÚ + 256 + 257) - 291AÚ	55	0,00	0,00	0,00	0,00
5.	Obstaranie krátkodobého finančného majetku (259 - 291AÚ)	56	0,00	0,00	0,00	0,00
C.	ČASOVÉ ROZLIŠENIE SPOLU r. 058 a r. 059	57	2 043,07	0,00	2 043,07	177,96
C.1.	Náklady budúcich období (381)	58	2 043,07	0,00	2 043,07	177,96
2.	Príjmy budúcich období (385)	59	0,00	0,00	0,00	0,00
	MAJETOK SPOLU r. 001 + r. 029 + r. 057	60	6 455 283,36	3 382 460,42	3 072 822,94	2 995 876,83

Strana pasív

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	61	-23 438,57	-62 966,58
A.I.	Imanie a fondy r. 063 až r. 066	62	30 472,02	30 472,02
A.I.1.	Základné imanie (411)	63	30 472,02	30 472,02
2.	Fondy tvorené podľa osobitných predpisov (412)	64	0,00	0,00
3.	Fond reprodukcie (413)	65	0,00	0,00
4.	Oceňovacie rozdiely z precenenia kapitálových účastín (415)	66	0,00	0,00
A.II.	Fondy tvorené zo zisku r. 068 až r. 070	67	0,00	0,00
A.II.1.	Rezervný fond (421)	68	0,00	0,00
2.	Fondy tvorené zo zisku (423)	69	0,00	0,00
3.	Ostatné fondy (427)	70	0,00	0,00
A.III.	Nevysporiadaný výsledok hospodárenia minulých rokov (+; - 428)	71	-93 438,60	-92 836,34
A.IV.	Výsledok hospodárenia za účtovné obdobie r. 060 - (r. 062 + r. 067 + r. 071 + r. 073 + r. 100)	72	39 528,01	-602,26
B.	ZÁVÄZKY r. 074 + r. 078 + r. 086 + r. 096	73	1 069 810,40	72 716,39
B.I.1.	Rezervy r. 075 až r. 077	74	0,00	0,00
2.	Rezervy zákonné (451AÚ)	75	0,00	0,00
3.	Ostatné rezervy (459AÚ)	76	0,00	0,00
4.	Krátkodobé rezervy (323 + 451AÚ + 459AÚ)	77	0,00	0,00
B.II.	Dlhodobé záväzky r. 079 až r. 085	78	751,53	888,87
B.II.1.	Záväzky zo sociálneho fondu (472)	79	751,53	888,87
2.	Vydané dlhopisy (473 - 255AÚ)	80	0,00	0,00
3.	Záväzky z nájmu (474 AÚ)	81	0,00	0,00
4.	Dlhodobé prijaté preddavky (475)	82	0,00	0,00
5.	Dlhodobé nevyfakturované dodávky (476 AÚ)	83	0,00	0,00
6.	Dlhodobé zmenky na úhradu (478)	84	0,00	0,00
7.	Ostatné dlhodobé záväzky (373 AÚ + 479 AÚ)	85	0,00	0,00
B.III.	Krátkodobé záväzky r. 087 až r. 095	86	1 069 058,87	71 827,52
B.III.1.	Záväzky z obchodného styku (321 až 326) okrem 323	87	926 602,86	676,69
2.	Záväzky voči zamestnancom (331+ 333)	88	111,76	111,76
3.	Zúčtovanie so Sociálnou poisťovňou a zdravotnými poisťovňami (336)	89	0,00	0,00
4.	Daňové záväzky (341 až 345)	90	13 042,25	1 495,07
5.	Záväzky z dôvodu finančných vzťahov k štátnemu rozpočtu a rozpočtom územnej samosprávy (346+348)	91	129 302,00	0,00
6.	Záväzky z upísaných nesplatených cenných papierov a vkladov (367)	92	0,00	0,00
7.	Záväzky voči účastníkom združení (368)	93	0,00	0,00
8.	Spojovací účet pri združení (396)	94	0,00	0,00
9.	Ostatné záväzky (379 + 373 AÚ + 474 AÚ + 476AÚ + 479 AÚ)	95	0,00	69 544,00
B.IV.	Bankové úvery a iné výpomoci a pôžičky r. 097 až r. 099	96	0,00	0,00
B.IV.1	Dlhodobé bankové úvery (461AÚ)	97	0,00	0,00
2.	Bežné bankové úvery (231 + 232 + 461AÚ)	98	0,00	0,00
3.	Prijaté krátkodobé finančné výpomoci (241 + 249)	99	0,00	0,00
C.	ČASOVÉ ROZLIŠENIE SPOLU r. 101 až r. 103	100	2 026 451,11	2 986 127,02
C.I.1.	Výdavky budúcich období (383)	101	0,00	0,00
2.	Výnosy budúcich období krátkodobé (384 AÚ)	102	935 387,86	1 264 520,28
3.	Výnosy budúcich období dlhodobé (384 AÚ)	103	1 091 063,25	1 721 606,74
	SPOLU VLASTNÉ IMANIE, ZÁVÄZKY A ÚČTY ČASOVÉHO ROZLIŠENIA r.061 + r.073 + r.100	104	3 072 822,94	2 995 876,83

Náklady

Číslo účtu	Náklady	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b	c	1	2	3	4
501	Spotreba materiálu	1	685 624,53	0,00	685 624,53	507 549,41
502	Spotreba energie	2	54 528,99	0,00	54 528,99	56 313,21
504	Predaný tovar	3	406,80	0,00	406,80	0,00
511	Opravy a udržiavanie	4	423 817,96	0,00	423 817,96	3 702,04
512	Cestovné	5	203 092,64	0,00	203 092,64	147 088,22
513	Náklady na reprezentáciu	6	3 484,07	0,00	3 484,07	1 584,48
518	Ostatné služby	7	314 653,92	0,00	314 653,92	408 328,51
521	Mzdové náklady	8	1 345 462,40	0,00	1 345 462,40	1 117 733,49
524	Zákonné sociálne poistenie a zdravotné poistenie	9	476 324,14	0,00	476 324,14	389 149,40
525	Ostatné sociálne poistenie	10	0,00	0,00	0,00	0,00
527	Zákonné sociálne náklady	11	56 935,22	0,00	56 935,22	52 630,26
528	Ostatné sociálne náklady	12	0,00	0,00	0,00	0,00
531	Daň z motorových vozidiel	13	0,00	0,00	0,00	0,00
532	Daň z nehnuteľností	14	3,28	0,00	3,28	0,00
538	Ostatné dane a poplatky	15	3 172,70	0,00	3 172,70	3 936,14
541	Zmluvné pokuty a penále	16	0,00	0,00	0,00	0,00
542	Ostatné pokuty a penále	17	36,00	0,00	36,00	1 513,00
543	Odpísanie pohľadávky	18	0,00	0,00	0,00	0,00
544	Úroky	19	0,00	0,00	0,00	7,50
545	Kurzové straty	20	0,00	0,00	0,00	0,00
546	Dary	21	0,00	0,00	0,00	0,00
547	Osobitné náklady	22	0,00	0,00	0,00	0,00
548	Manká a škody	23	0,00	0,00	0,00	0,00
549	Iné ostatné náklady	24	167 046,61	0,00	167 046,61	166 035,69
551	Odpisy dlhodobého nehmotného majetku a dlhodobého hmotného majetku	25	98 376,09	0,00	98 376,09	97 829,42
552	Zostatková cena predaného dlhodobého nehmotného majetku a dlhodobého hmotného majetku	26	0,00	0,00	0,00	0,00
553	Predané cenné papiere	27	0,00	0,00	0,00	0,00
554	Predaný materiál	28	0,00	0,00	0,00	0,00
555	Náklady na krátkodobý finančný majetok	29	0,00	0,00	0,00	0,00
556	Tvorba fondov	30	0,00	0,00	0,00	0,00
557	Náklady na precenenie cenných papierov	31	0,00	0,00	0,00	0,00
558	Tvorba a zúčtovanie opravných položiek	32	0,00	0,00	0,00	0,00
561	Poskytnuté príspevky organizačným zložkám	33	0,00	0,00	0,00	0,00
562	Poskytnuté príspevky iným účtovným jednotkám	34	0,00	0,00	0,00	0,00
563	Poskytnuté príspevky fyzickým osobám	35	0,00	0,00	0,00	0,00
565	Poskytnuté príspevky z podielu zaplatenej dane	36	0,00	0,00	0,00	0,00
567	Poskytnuté príspevky z verejnej zbierky	37	0,00	0,00	0,00	0,00
	Účtová trieda 5 spolu r. 01 až r. 37	38	3 832 965,35	0,00	3 832 965,35	2 953 400,77

Výnosy

Číslo účtu	Výnosy	Číslo riadku	Činnosť			Bezprostredne predchádzajúce účtovné obdobie
			Hlavná nezdaňovaná	Podnikateľská zdaňovaná	Spolu	
a	b	c	1	2	3	4
601	Tržby za vlastné výroby	39	0,00	0,00	0,00	0,00
602	Tržby z predaja služieb	40	37 510,00	1 200,00	38 710,00	15 419,00
604	Tržby za predaný tovar	41	0,00	0,00	0,00	0,00
611	Zmena stavu zásob nedokončenej výroby	42	0,00	0,00	0,00	0,00
612	Zmena stavu zásob polotovarov	43	0,00	0,00	0,00	0,00
613	Zmena stavu zásob výrobkov	44	0,00	0,00	0,00	0,00
614	Zmena stavu zásob zvierat	45	0,00	0,00	0,00	0,00
621	Aktivácia materiálu a tovaru	46	0,00	0,00	0,00	0,00
622	Aktivácia vnútroorganizačných služieb	47	0,00	0,00	0,00	0,00
623	Aktivácia dlhodobého nehmotného majetku	48	0,00	0,00	0,00	0,00
624	Aktivácia dlhodobého hmotného majetku	49	0,00	0,00	0,00	0,00
641	Zmluvné pokuty a penále	50	0,00	0,00	0,00	0,00
642	Ostatné pokuty a penále	51	0,00	0,00	0,00	0,00
643	Platby za odpísané pohľadávky	52	0,00	0,00	0,00	0,00
644	Úroky	53	0,00	0,00	0,00	0,00
645	Kurzové zisky	54	0,00	0,00	0,00	0,00
646	Prijaté dary	55	0,00	0,00	0,00	0,00
647	Osobitné výnosy	56	0,00	0,00	0,00	0,00
648	Zákonné poplatky	57	0,00	0,00	0,00	0,00
649	Iné ostatné výnosy	58	24 666,25	36 658,20	61 324,45	36 564,40
651	Tržby z predaja dlhodobého nehmotného majetku a dlhodobého hmotného majetku	59	0,00	0,00	0,00	0,00
652	Výnosy z dlhodobého finančného majetku	60	0,00	0,00	0,00	0,00
653	Tržby z predaja cenných papierov a podielov	61	0,00	0,00	0,00	0,00
654	Tržby z predaja materiálu	62	0,00	0,00	0,00	0,00
655	Výnosy z krátkodobého finančného majetku	63	0,00	0,00	0,00	0,00
656	Výnosy z použitia fondu	64	0,00	0,00	0,00	0,00
657	Výnosy z precenenia cenných papierov	65	0,00	0,00	0,00	0,00
658	Výnosy z nájmu majetku	66	0,00	0,00	0,00	0,00
661	Prijaté príspevky od organizačných zložiek	67	0,00	0,00	0,00	0,00
662	Prijaté príspevky od právnických osôb	68	0,00	0,00	0,00	397 466,30
663	Prijaté príspevky od fyzických osôb	69	0,00	0,00	0,00	0,00
664	Prijaté členské príspevky	70	0,00	0,00	0,00	0,00
665	Príspevky z podielu zaplatenej dane	71	0,00	0,00	0,00	0,00
667	Prijaté príspevky z verejných zbierok	72	0,00	0,00	0,00	0,00
691	Dotácie	73	3 785 214,45	0,00	3 785 214,45	2 503 348,81
	Účtová trieda 6 spolu r. 39 až r. 73	74	3 847 390,70	37 858,20	3 885 248,90	2 952 798,51
	Výsledok hospodárenia pred zdanením r. 74 - r. 38	75	14 425,35	37 858,20	52 283,55	-602,26
591	Daň z príjmov	76	0,00	12 755,54	12 755,54	0,00
595	Dodatočné odvody dane z príjmov	77	0,00	0,00	0,00	0,00
	Výsledok hospodárenia po zdanení (r. 75 - (r. 76 + r. 77)) (+/-)	78	14 425,35	25 102,66	39 528,01	-602,26

Poznámky k účtovnej závierke k 31.12.2024

Článok I

1. Identifikačné údaje účtovnej jednotky

Názov účtovnej jednotky: **Neuroimunologický ústav Slovenskej akadémie vied, verejná výskumná inštitúcia; skrátená podoba názvu organizácie: Neuroimunologický ústav SAV, v. v. i.**

Sídlo účtovnej jednotky: Dúbravská cesta 57799, 845 10 Bratislava

IČO: 31748333

DIČ: 2020921320

Dátum založenia: 01.01.2022

Spôsob založenia: na dobu neurčitú ako verejná výskumná inštitúcia – pracovisko Slovenskej akadémie vied, Zakladacia listina č. 06167/2021 zo dňa 15.11.2021, opravená Zakladacou listinou č. 00397/2022 zo dňa 11.2.2022.

Názov zakladateľa: Slovenská akadémia vied

Sídlo zriaďovateľa: Štefánikova 898/49, 814 38 Bratislava

Účtovná jednotka je súčasťou konsolidovaného celku kapitoly Slovenská akadémia vied

Právny dôvod zostavenia účtovnej závierky:

Účtovná závierka je zostavená ako riadna účtovná závierka za účtovné obdobie od 1. januára do 31. decembra 2024 podľa zákona č. 431/2002 Z. z. o účtovníctve.

Od 01.01.2022 sa právna forma Organizácie zmenila z príspevkovej na verejnú výskumnú inštitúciu.

2. Informácie o vedúcich predstaviteľoch, členoch štatutárnych orgánov, dozorných orgánov a iných orgánov účtovnej jednotky

Riaditeľ - Doc. MVDr. Norbert Žilka, DrSc.

Zástupca riaditeľa: prof. RNDr. Eva Kontseková, DrSc.

Vedecký tajomník: RNDr. Monika Žilková, PhD.

Predseda vedeckej rady: Mgr. Branislav Kováčech, PhD.

Členovia Snemu SAV za Organizáciu: RNDr. Rostislav Škrabana, PhD.

Správna rada Organizácie je v zložení:

Doc. MVDr. Norbert Žilka, DrSc. - predseda

PharmDr. Andrej Kováč, PhD. - člen

prof. RNDr. Eva Kontseková, DrSc. - člen

doc. RNDr. Peter Filipčík, CSc. - člen

prof. MVDr. Daša Čížková, DrSc. - člen

Dozorná rada Organizácie je v zložení:

prof. RNDr. Ľubica Lacinová, DrSc.
JUDr. Glória Gajdošová
prof. MUDr. Milan Buc, DrSc.

3. Predmet činnosti účtovnej jednotky:

(1) Prevažujúcou hlavnou činnosťou organizácie je uskutočňovanie výskumu v odboroch vedy a techniky (ďalej tiež „odbornosti“): a) Biologické vedy (010600), najmä v odboroch vedy a techniky: i) Imunológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske vedy a lesnícke vedy) (010611), ii) Mikrobiológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010612), iii) Molekulárna biológia (010613), iv) Neurovedy (010617), v) Parazitológia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010620), b) Lekárske vedy (030000), najmä v odboroch vedy a techniky: i) Normálna a patologická fyziológia (030106), ii) Ostatné príbuzné odbory základných odborov lekárskeho a farmaceutického vied (030199), iii) Klinické lekárske vedy (030200), iv) Neurológia (030206), v) Psychiatria (030212), vi) Klinická biochémia (030218), vii) Ostatné príbuzné odbory klinických odborov lekárskeho vied (030299), viii) Zdravotné vedy (030300), ix) Biotechnológie v zdravotníctve (030400), c) Veterinárske vedy (040300), d) Biotechnológie v poľnohospodárstve (040400), e) Psychologické vedy (050100), najmä v odbore Klinická psychológia (050102), f) Logopédia (050303), g) Bioinformatika (010202), h) Biofyzika (aj pre lekárske, farmaceutické, veterinárne a poľnohospodárske, lesnícke a chemické vedy) (010303), i) Chemické vedy (010400), najmä v odboroch vedy a techniky: i) Biochémia (aj pre lekárske, farmaceutické, veterinárne, poľnohospodárske, lesnícke a vodohospodárske vedy) (010403), ii) Bioorganická chémia (010406), j) Priemyselná biotechnológia (021000), najmä v odboroch vedy a techniky: i) Biopostupy v technológiách (021001), ii) Bioprodukty (021004), iii) Biomasa a špecifické biochemikálie (021008), iv) Ostatné príbuzné odbory priemyselnej biotechnológie (021099)

(2) Ďalšími hlavnými činnosťami organizácie sú:

- a) zabezpečovanie a správa infraštruktúry výskumu a vývoja, ku ktorej má organizácia vlastnícke právo alebo iné právo; rozsah infraštruktúry výskumu a vývoja, práva ku ktorej organizácia nadobudne zmenou právnej formy organizácie na verejnú výskumnú inštitúciu dňa 1.1.2022, bude vyplývať z protokolu medzi Slovenskou akadémiou vied a organizáciou podľa § 21aa ods. 11 zákona o akadémii,
- b) získavanie, spracúvanie a šírenie informácií z oblasti vedy a techniky, a tiež poznatkov z vlastného výskumu a vývoja
- c) podieľanie sa v spolupráci s vysokou školou na uskutočňovaní študijných programov tretieho stupňa vysokoškolského štúdia v študijnom odbore Biológia
- d) spolupráca v oblasti vedy a techniky s vysokými školami, ostatnými právnickými osobami uskutočňujúcimi výskum a vývoj a s podnikateľmi, a to v odboroch uvedených v odseku 1.
- e) vykonávanie činností podľa osobitných predpisov

4. Počet zamestnancov

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Priemerný prepočítaný počet zamestnancov	48,7	45,9
Stav zamestnancov ku dňu, ku ktorému sa zostavuje účtovná závierka, z toho:	53,3	49,2
Počet vedúcich zamestnancov	6	6

5. Organizačná štruktúra účtovnej jednotky

Štatutárny orgán/meno a priezvisko: doc. MVDr. Norbert Žilka, DrSc.

Zástupca štatutárneho orgánu /meno a priezvisko: prof. RNDr. Eva Kontseková, DrSc.

Článok II

Informácie o účtovných zásadách a účtovných metódach

- Účtovná závierka bola zostavená za predpokladu nepretržitého pokračovania činnosti.
- Účtovná jednotka uplatňuje princípy a postupy účtovania v súlade so zákonom o účtovníctve, od 01.01.2022 účtuje podľa opatrenia pre neziskové organizácie a má vykázané bezprostredne predchádzajúce obdobie v Súvahe, vo Výkaze zisku a strát a v Poznámkach.

Účtovníctvo sa vedie v peňažných jednotkách euro.

Súčasťou vedenia a vykazovania účtovníctva verejnej výskumnej inštitúcie, v znení § 26 ods. 1) zákona 243/2017 Z.z. o verejnej výskumnej inštitúcii a o zmene a doplnení niektorých zákonov, je zaradenie účtovania podľa činností, o ktorých sa vedie oddelená evidencia:

- hlavnej činnosti okrem činnosti podľa písmen b) a c)
- činnosť podľa § 2 ods. 1 písm. a),
- činnosť podľa § 2 ods. 1 písm. b),
- činnosť podľa § 2 ods. 1 písm. c),
- činnosť podľa § 2 ods. 1 písm. d),
- činnosť podľa § 2 ods. 1 písm. e),

Verejná výskumná inštitúcia (vvi) vedie svoje príjmy a výdavky v súlade s rozpočtovou klasifikáciou podľa osobitného predpisu (§ 4 ods. 4 zákona č. 523/2004 Z.z. o rozpočtových pravidlách verejnej správy a o zmene a doplnení niektorých zákonov).

Od 01.01.2024 došlo k zmene účtovania priznaných dotácií vo vvi, stanovisko vydal odbor pre legislatívu a metodiku účtovníctva MF SR číslo MF/006583/2024-74 dňa 23.1.2024, podľa ktorého s jednotlivé dotácie (predpis pri dodržaní zásady akruálnosti) účtujú prostredníctvom účtu Výnosy budúcich období; tento sa následne zúčtováva s účtovaním nákladov vynaložených na príslušný účel a s účtovaním výnosov s dodržaním časovej a vecnej súvislosti.

Účtovanie príslubov z priznaných dotácií na viac účtovných období Organizácia účtovala od 01.01.2024 na ročnej báze, t. j. v roku 2024 iba prostriedky roku 2024.

Organizácia účtuje o jednotlivých nákladoch a výnosoch na úrovni hospodárskych stredísk (kód určujúci jedinečnosť projektu) priamo v predpise záväzku, aby bol zabezpečený nulový dopad na výsledok hospodárenia (výnos rozpúšťa súčasne s nákladom).

Finančné prostriedky sa vedú na účtoch v Štátnej pokladnici.

Verejná výskumná inštitúcia je povinná zabezpečiť najmenej raz za štyri roky overenie ročnej účtovnej závierky štatutárnym audítorom. Po jej overení štatutárnym audítorom predkladá riaditeľ ročnú účtovnú závierku na prerokovanie správnej rade a na schválenie dozornej rade.

3. Spôsob ocenenia jednotlivých položiek majetku

1. Dlhodobý nehmotný a hmotný majetok nakupovaný sa oceňuje obstarávacou cenou. Obstarávacia cena zahŕňa cenu, za ktorú sa majetok obstaral a vedľajšie náklady súvisiace s jeho obstaraním (clo, preprava, montáž, poistné a pod.).
2. Dlhodobý majetok nadobudnutý bezodplatným prevodom pri splynutí, zlúčení, rozdelení alebo pri prevode správy sa oceňuje cenou, v ktorej sa doteraz viedol v účtovníctve. Ak cenu nie je možné zistiť, oceňuje sa reálnou cenou. Dlhodobý majetok obstaraný iným spôsobom (napr. bezodplatne nadobudnutý majetok, novozistený majetok pri inventarizácii) sa oceňuje reálnou cenou. Reálnou hodnotou sa rozumie cena, ktorá sa stanoví kvalifikovaným odhadom, ktorý vychádza spravidla zo súčasnej hodnoty budúcich peňažných príjmov z majetku a budúcich peňažných výdavkov na majetok; diskontná sadzba sa určí ako vnútorná miera návratnosti požadovaná investormi pre daný druh majetku ku dňu jeho ocenenia, za ktorú by sa majetok obstaral v čase, keď sa o ňom účtuje.
3. Zásoby sa oceňujú obstarávacou cenou, ktorá zahŕňa cenu obstarania a náklady súvisiace s obstaraním (clo, preprava, poistné a pod.).
4. Pohľadávky pri ich vzniku sa oceňujú menovitou hodnotou.
5. Finančné prostriedky a ceniny sa oceňujú ich menovitou hodnotou.
6. Príjmy budúcich období a náklady budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
7. Záväzky pri ich vzniku sa oceňujú ich menovitou hodnotou.
8. Rezervy sú záväzky s neistým časovým vymedzením alebo výškou, tvoria sa na základe opatrnosti a oceňujú sa v očakávanej výške záväzku v sume dostatočnej na jeho splnenie.
9. Výdavky budúcich období a výnosy budúcich období sa vykazujú vo výške, ktorá je potrebná na dodržanie zásady vecnej a časovej súvislosti s účtovným obdobím.
10. Opravné položky k pohľadávkam sa tvoria na základe zásady opatrnosti, vyjadrujú prechodné zníženie ich hodnoty.
11. Účtovná jednotka nie je platiteľom dane z pridanej hodnoty. V prípadoch, keď dodávatelia sú platiteľmi DPH, fakturovaná DPH je súčasťou ocenenia dlhodobého majetku, zásob, nákladov. Organizácia je registrovaná na odvod DPH v tuzemsku z nadobudnutých tovarov a služieb zo zahraničia podľa § 7a zákona o dani z pridanej hodnoty.

Prepočet údajov v cudzích menách

Majetok a záväzky vyjadrené v cudzej mene sa prepočítavajú na menu euro referenčným výmenným kurzom určeným a vyhláseným Európskou centrálnou bankou v deň predchádzajúci dňu uskutočnenia účtovného prípadu resp. v deň, ku ktorému sa zostavuje účtovná závierka. Na ocenenie prírastku cudzej meny nakúpenej za menu euro sa použije kurz, za ktorý bola táto cudzia mena nakúpená, alebo referenčný kurz v deň uzavretia obchodu. Na ocenenie prírastku cudzej meny v mene euro nakúpenej za inú cudziu menu sa použije hodnota inej cudzej meny v eurách alebo sa na ocenenie prírastku cudzej meny v eurách použije referenčný kurz v deň uzavretia obchodu.

4. Spôsob zostavenia odpisového plánu dlhodobého hmotného a nehmotného majetku

Odpisy dlhodobého majetku boli stanovené v súlade so zákonom o účtovníctve. Pri stanovení doby odpisovania sa vychádzalo z predpokladanej doby jeho používania a predpokladaného priebehu jeho

opotrebenia. Odpisovať sa začína prvým dňom mesiaca, v ktorom bol dlhodobý majetok zaradený do používania. Metóda odpisovania sa používa lineárna.

Predpokladaná doba používania dlhodobého majetku

Dlhodobý majetok	Predpokladaná doba používania	Ročná odpisová sadzba v %
Dlhodobý nehmotný majetok	4	25
Dlhodobý hmotný majetok		
- Budovy, inžinierske stavby	50	2
- Stroje, prístroje a zariadenia	6	16,66
- Dopravné prostriedky	12	8,33

Drobný nehmotný majetok do 2 400 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa účtuje do nákladov na účet 518 – Ostatné služby.

Drobný hmotný majetok do 1 700 EUR, ktorý podľa rozhodnutia účtovnej jednotky nie je dlhodobým majetkom, sa účtuje do nákladov na účet 501 – Spotreba materiálu.

Informácie o účtovaní opráv významných chýb minulých účtovných období

V roku 2024 neboli účtované žiadne opravy významných chýb minulých účtovných období.

Prehľad o vývoji opravných položiek podľa jednotlivých druhov majetku

V sledovanom účtovnom období sa neuskutočnila žiadna oprava zaúčtovaného majetku.

Článok III

Informácie o údajoch v súvahe

A) Informácie o údajoch v súvahe na strane aktív

Dlhodobý nehmotný majetok

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Softvér	0,00	0,00
Dlhodobý nehmotný majetok celkom	0,00	0,00

Netto hodnota DNehM bola vo výške 0,00 EUR, ani pokles ani nárast oproti minulému roku.

Dlhodobý hmotný majetok

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Pozemky	30 472,02	30 472,02
Umelecké diela a zbierky	0,00	0,00

Predmety z drahých kovov	0,00	0,00
Stavby	662 801,54	672 745,97
Stroje, prístroje, zariadenia, invent.	230 348,13	288 008,19
Dopravné prostriedky	0,00	0,00
Obstaranie dlhodobého hmotného majetku	912 260,87	8 019,60
Dlhodobý hmotný majetok celkom	1 835 882,56	999 245,78

Pozemky =30 472,02 eur – ide o parcelné číslo na Dúbravskej ceste č. 9

Stavby =662 801,54 eur – budova NIU

Inventár =230 348,13 eur – kancelársky a laboratórny nábytok, stroje, prístroje a zariadenia, ktorý bol prevzatý do evidencie majetku.

Výška odpisov, ktoré znižujú netto hodnotu bola 98 376,09 eur (kontrola s účtom 551) - oprávky k stavbám 20 588,43 eur a samostatne hnuiteľným veciam 77 787,66 eur.

Netto hodnota DHM bola vo výške 1 835 882,56 EUR.

Na účte obstarania dlhodobého hmotného majetku Organizácia eviduje nedodaný majetok, neuhradený, nezaradený do používania k 31.12.2024, so súvťažným zápisom na účte Dodávateľa, ide o majetok financovaný z prostriedkov EÚ (POO). Majetok bol uhradený a zaradený začiatkom roka 2025:

- prístroj na meranie makromolekulárnych interakcií v hodnote 141.114,35 EUR
- hmotnostný detektor-trojitý kvadrupól s UHPLC v hodnote 747 480,00 EUR
- prístroj pre chemiluminiscenciu CL1500 2YR WRNTY 1 v hodnote 23 666,52 EUR

Obežný majetok

Zásoby

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Materiál	105,01	111,66
Zásoby celkom	105,01	111,66

Ide o stav pohonných hmôt k 31.12.2024 v služobných motorových vozidlách organizácie.

Krátkodobé pohľadávky

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Odberatelia	12 508,24	331,24
Ostatné pohľadávky	3 222,99	0,00
Iné pohľadávky	0,00	0,00
Zúčtovanie s orgánmi SP a ZP	0,00	0,00
Daň z príjmov	0,00	1 208,36
Ostatné dane a poplatky	338,20	0,00
Pohľadávky celkom	16 069,43	1 539,60

Pohľadávky podľa doby splatnosti

Pohľadávky	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
- v lehote splatnosti	16 069,43	1 539,60
- po lehote splatnosti	0,00	0,00

Pohľadávky z dôvodu finančných vzťahov k ŠR

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Dotácie a ostatné zúčtovania so ŠR	0,00	1 551 560,16
Zásoby celkom	0,00	1 551 560,16

Ide o pohľadávky voči APVV a iným inštitúciám v rámci verejnej správy, v lehote splatnosti, suma prísľubu na roky 2024-2027 vo výške 1 551 560,16 bola odúčtovaná. Od roku 2024 Organizácia o prísľuboch neučtuje.

Finančné účty

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Pokladnica	0,00	0,00
Ceniny	0,00	0,00
Bankové účty	1 218 722,87	441 016,79
Peniaze na ceste – účet VÚB	0,00	2 224,88
Finančné účty celkom	1 218 722,87	443 241,67

Organizácia mala účty iba v Štátnej pokladnici a jeden účet vo VÚB – hotovostný účet.

Časové rozlíšenie aktív

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Náklady budúcich období	2 043,07	177,96
Príjmy budúcich období	0,00	0,00
Časové rozlíšenie celkom	2 043,07	177,96

Organizácia účtovala o časovom rozlíšení nákladov v súvislosti s úhradou poistenia – havarijné poistenie a poistenie majetku.

B) Informácie o údajoch v súvahe na strane pasív

Vlastné imanie

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Zákonný rezervný fond	0,00	0,00
Výsledok hospodárenia za bežné obdobie	39 528,01	-602,26
Nevysporiadaný výsledok hospodárenia minulých období	-93 438,6	-92 836,34
Základné imanie	30 472,02	30 472,02
Vlastné imanie	-23 438,57	-62 966,58

Základné imanie tvorí hodnotu pozemkov

Rezervy

Účtovná jednotka v priebehu roku rezervy netvorila.

Záväzky do uplynutia lehoty splatnosti a po uplynutí lehoty splatnosti

Záväzky so zostatkovou dobou splatnosti	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
- do uplynutia lehoty splatnosti	1 069 058,87	2 283,52
- po uplynutí lehoty splatnosti	0,00	0,00
Spolu	1 069 058,87	2 283,52

Ide o krátkodobé záväzky – účet 321 Dodávateľa v členení:

- prijaté daňové doklady za služby účtovného obdobia december 2024, ktoré prišli v priebehu mesiaca január 2025 vo výške:

- prijaté daňové doklady za obstaranie prístrojového vybavenia v decembri 2024, zaradené do používania a uhradené v roku 2025 vo výške: 912 260,87 EUR.

Závazok na účte 346 – Dotácie – ide o prostriedky APVV na rok 2025, prijaté na účet Organizácie koncom roka 2024.

Ostatné záväzky

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Ostatné záväzky	0,00	69 544,00
Ostatné dlhodobé záväzky	0,00	0,00
Spolu	0,00	69 544,00

Organizácia v predchádzajúcich obdobiach účtovala v Ostatných záväzkoch o prostriedkoch z projektov APVV, ktoré posielala spoluriešiteľom. V roku 2024 bola hodnota prísľubu na ďalšie roky odúčtovaná.

Sociálny fond – prehľad o PS, tvorbe, čerpaní a KZ v priebehu roka 2024

Sociálny fond	Suma
Stav k 01.01.2024	888,87
Tvorba na ťarchu nákladov	12 079,88
Čerpanie	12 217,22
Stav k 31.12.2024	751,53

Sociálny fond Organizácie sa rozpúšťa na stravné formou finančného príspevku pre zamestnancov, stravovacou kartou spoločnosti Up Déjeuner a nákupom darčkových poukážok zamestnancom.

Časové rozlíšenie pasív

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Výdavky budúcich období	0,00	0,00
Výnosy budúcich období krátkodobé	935 387,86	1 264 520,28
Výnosy budúcich období dlhodobé	1 091 063,25	1 721 606,74
Časové rozlíšenie pasív celkom	2 026 451,11	2 986 127,02

Krátkodobé výnosy budúcich období k 31.12.2024 zahŕňajú zostatky zdroja ŠR a APVV za rok 2024, predpis prostriedkov APVV na základe zmlúv roku 2024.

Výnosy budúcich období dlhodobé v zostatku roku 2024 tvorí zostatková hodnota majetku zo zdroja ŠR a zo zdroja 46, predpis prostriedkov APVV na základe zmlúv od roku 2024, APVV transfer od subjektu mimo VS.

Článok IV

Informácie o výnosoch a nákladoch

Výnosy

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Tržby z predaja služieb	38 710,00	15 419,00
Ostatné výnosy iné	61 324,45	36 564,40
Prijaté príspevky (SASPRO2)	0,00	397 466,30
Dotácie	3 785 214,45	2 503 348,81
Výnosy celkom	3 885 248,90	2 952 798,51

Dotácie – výnosy z bežných transferov: ŠR, APVV, úrad vlády, prostriedky roku 2024.

Dotácie – výnosy z kapitálových transferov zo ŠR a mimo VS.

Iné príjmy Organizácia nedosiahla, nevykazuje príjem z reklám v spojení s charitatívnym účelom, neprijala nepeňažné dary.

Náklady

Názov	Bežné účtovné obdobie	Bezprostredne predchádzajúce účtovné obdobie
Spotreba materiálu	686 031,33	507 549,41
Spotreba energie	54 528,99	56 313,21
Opravy a udržiavanie	423 817,96	3 702,04
Cestovné	203 092,64	147 088,22
Náklady na reprezentáciu	3 484,07	1 584,48
Ostatné služby	314 653,92	408 328,51
Mzdové náklady	1 345 462,40	1 117 733,49
Zákonné sociálne poistenie	476 324,14	389 149,40
Zákonné sociálne náklady	56 935,22	52 630,26
Ostatné dane a poplatky	15 931,52	5 329,14
Ostatné pokuty a penále	36,00	120,00
Iné ostatné náklady	167 046,61	166 043,19
Odpisy dlhodobého majetku	98 376,09	97 829,42
Náklady celkom	3 845 720,89	2 953 400,77

Súhrn	Suma
Výnosy celkom	3 885 248,90
Náklady celkom	3 832 965,35
Výsledok hospodárenia pred zdanením	52 283,55
Daň	12 755,54
Výsledok hospodárenia po zdanení	39 528,01

Článok V

Informácie o údajoch na podsúvahových účtoch

Na podsúvahových účtoch sa vedie evidencia majetku, ktorý spĺňa kritériá drobného hmotného a nehmotného majetku nasledovne:

- drobný hmotný majetok - hmotný majetok, ktorého obstarávacía cena je vyššia ako 170 EUR a nižšia ako 1 700 EUR, doba použiteľnosti zväčša menej ako jeden rok
- drobný nehmotný majetok – nehmotný majetok, ktorého obstarávacía cena je vyššia ako 170,00 EUR a nižšia ako 2 400 EUR, doba použiteľnosti zväčša menej ako jeden rok..

Článok VI

Informácie všeobecné

Organizácia nemá v správe ani vo vlastníctve kultúrne pamiatky.

Organizácia v priebehu roku neriešila žiadne súdne spory ani nemá návrhy v podaní.

Škodové udalosti, havárie a krádeže Organizácii nevznikli.

Po období, ku ktorému sa zostavuje účtovná závierka, nenastali žiadne skutočnosti, ktoré by ju ovplyvnili.

Účtovná závierka bola predložená Správnej rade Organizácie na schválenie.

Doc. MVDr. Norbert Žilka, DrSc.

V Bratislave dňa 18.06.2025

Vypracoval: Kutná Dagmar