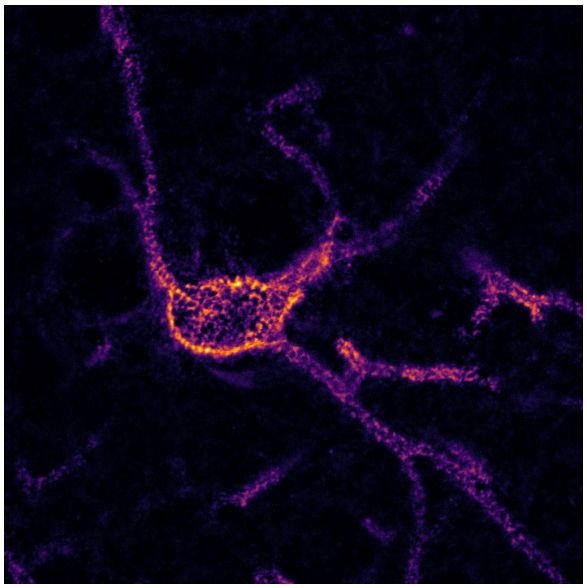
Neuroimunologický ústav SAV, v. v. i.

Výročná správa o činnosti a hospodárení za rok 2025



Bratislava
január 2026

Perineuronálna sieť v somatosenzorickej kôre mozgu potkana

Obsah

ČASŤ A
Výročná správa o činnosti organizácie za rok 2025

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

PRÍLOHY K ČASTI A

A-1 Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

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 2025

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 2025

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.
Členovia Snemu SAV: RNDr. Rostislav Škrabana, PhD., RNDr. Monika Žilková, PhD.
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E-mail: laura.izakova@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	52	22	30	1	7	52	50.39	25.71	0.8
Vedeckí pracovníci	31	14	17	0	4	31	29.87	22.01	0
Odborní pracovníci VŠ (výskumní a vývojoví zamestnanci[1])	7	4	3	0	0	7	6.7	3.7	0
Odborní pracovníci VŠ (ostatní zamestnanci[2])	4	1	3	0	1	4	3.53	0	0.8
Odborní pracovníci ÚS	8	3	5	1	1	8	8.33	0	0

Ostatní pracovníci	2	0	2	0	1	2	1.96	0	0

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

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2025 (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 31.12.2025 (bez riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)
P – celoročný priemerný prepočítaný počet zamestnancov
T – celoročný priemerný prepočítaný počet riešiteľov projektov
O – celoročný priemerný prepočítaný počet obslužného personálu podieľajúceho sa na riešení projektov (technikov, laborantov, projektových manažérov a pod.) mimo zamestnancov v administratíve, správe a údržbe budov, upratovačiek, vodičov a pod.
M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2025)

Rodová skladba	**Pracovníci s hodnosťou**				**Vedeckí pracovníci v stupňoch**		
	DrSc.	**CSc./PhD.**	**prof.**	**doc.**	**I.**	**II.a.**	**II.b.**
Muži	4	12	3	3	3	11	0
Ženy	3	13	3	1	3	6	8

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

Veková štruktúra (roky)	**< 31**		**31-35**		**36-40**		**41-45**		**46-50**		**51-55**		**56-60**		**61-65**		**> 65**	
	A	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**	**A**	**B**
Muži	0	0.0	0	0.0	0	0.0	4	4.0	2	2.0	2	1.5	2	2.0	2	2.0	2	1.7
Ženy	1	1.0	3	2.0	1	1.0	2	1.3	3	3.0	3	3.0	0	0.0	0	0.0	2	2.0
Spolu	1	1.0	3	2.0	1	1.0	6	5.3	5	5.0	5	4.5	2	2.0	2	2.0	4	3.7

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

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2025

	Kmeňoví zamestnanci	**Vedeckí pracovníci**	**Riešitelia projektov**
Muži	52.2	51.1	54.6
Ženy	46.1	47.4	46.6
Spolu	48.7	49.1	50.5

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 2025

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	7	1	-	-	63639	63639	-	5094
2. Projekty APVV	9	8	-	-	388649	375576	-	169809
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	1	-	-	1823923	1911130	-	113265
4. Projekty SASPRO	0	0	-	-	-	-	-	-
5. Projekty IMPULZ	0	0	-	-	-	-	-	-
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	-	-	39600	39600	-	-

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

Tabuľka 2b Domáce projekty podané v roku 2025

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2025	-	6	3
2. Projekty výziev EŠIF podané r. 2025	Bratislava	0	0
	Regióny	0	0

2.2. Medzinárodné projekty
2.2.1. Medzinárodné projekty riešené v roku 2025

Tabuľka 2c Medzinárodné projekty riešené v roku 2025

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		
1a. Projekty Horizont 2020	0	2	-	-	-	-	10740	80295
1b. Projekty Horizont Európa	0	3	-	-	-	-	5524	430069
2. Projekty ERA.NET, ESA, JRP	0	3	-	-	-	-	-	40385
3. Projekty COST	0	1	-	-	-	-	1500	-
4. Projekty EUREKA, NATO, UNESCO, CERN, IAEA, IVF, ERDF a iné	2	1	-	1534	28790	28790	-	40177
5. Projekty v rámci medzivládnych dohôd	0	0	-	-	-	-	-	-
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	0	0	-	-	-	-	-	-
7. Bilaterálne projekty ostatné	0	0	-	-	-	-	-	-
8. Podpora MVTS z národných zdrojov (SAV, APVV a iné)	0	0	-	-	-	-	-	-
9. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	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 2025

Tabuľka 2d Počet projektov Horizont Európa v roku 2025

	A	B
Počet podaných projektov I. pilier (Excelentná veda: MSCA, ERC, RI)	0	0
Počet podaných projektov II. pilier (klastre 1-6)	0	2
Počet podaných projektov III. pilier (EIC, EIT)	0	0
Počet podaných projektov Widera (Teaming, Twinning, Hop On Facility ...)	0	0

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

Údaje k domácim a medzinárodným projektom sú uvedené v Prílohe 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 2025

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.

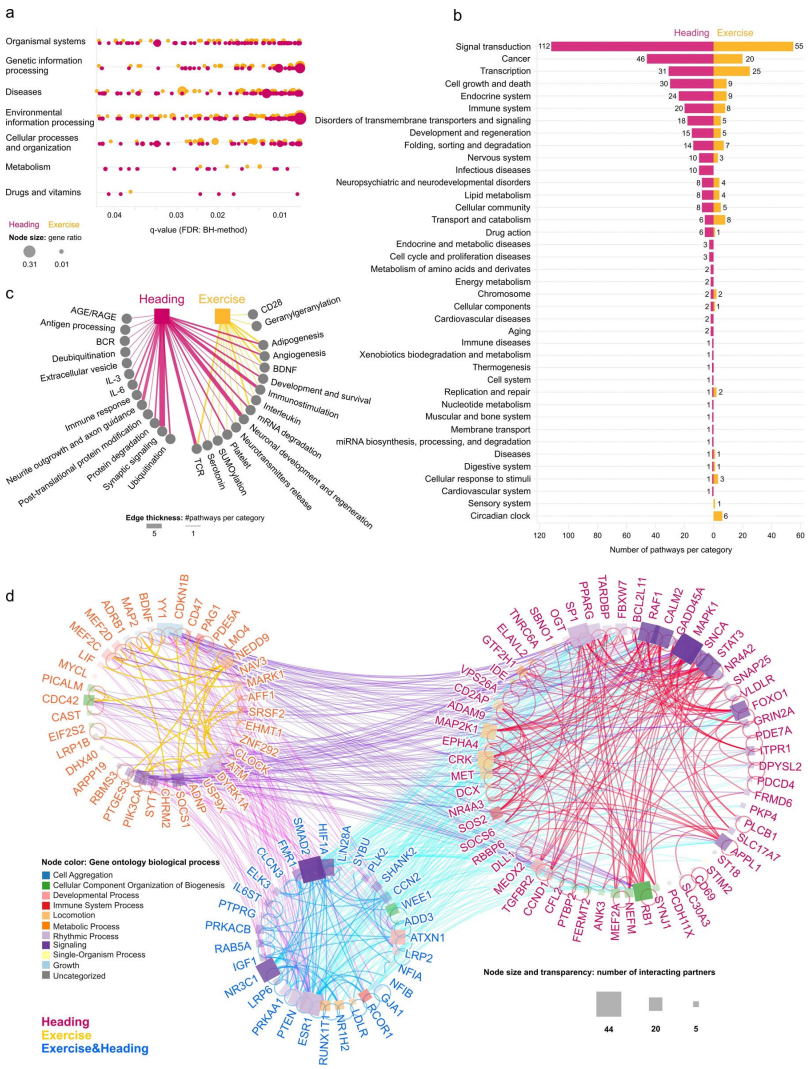
2.3.1. Výsledky na báze základného výskumu

Zmeny v periférnych biomarkeroch a kognícii po opakovaných nárazoch do hlavy u elitných futbalistiek

CENTE, Martin - PERACKOVA, Janka - PERACEK, Pavol – MAJDAN, Marek – TOTH, Igor – MIKULIC, Martin – HANES, Jozef – SPAJDEL, Marian – SIVCO, Patrik – SKRABANOVA, Michaela – SKRABANA, Rostislav – JURISICA, Igor – FILIPCIK, Peter. **Changes in peripheral blood and cognitive performance after nonconcussive head impacts in elite female soccer players.** ***In Communications Medicine***, 2025, Oct 7;5(1):417. (2024: 6.3 - IF, Q1 – JCR, 2.098 – SJR, Q1 - SJR). ISSN 2730-664X. Dostupné na: https://doi.org/10.1038/s43856-025-01127-8.

Súčasné epidemiologické štúdie jasne naznačujú, že expozícia opakovaným nárazom do hlavy zvyšuje riziko vzniku neurologických ochorení a demencie u bývalých profesionálnych futbalistov. Zvýšený výskyt demencie pozorovaný u mužov sa dá očakávať aj u hráčok. Keďže popularita ženského futbalu a počet hráčok za posledné desaťročie prudko vzrástol, je štúdium efektu hlavičkovania na zdravotný stav hráčok veľmi dôležité. Aj vzhľadom na značný nepomer v množstve dát publikovaných v neurovednom výskume medzi pohlaviami, , sme sa v našej štúdii zamerali na sledovanie vplyvu opakovaných podprahových úderov do hlavy u elitných futbalistiek. Športovkyne absolvovali 2 tréningové jednotky, obsahujúce futbalové cvičenia s hlavičkovaním a bez hlavičkovania. Futbalistky boli následne hodnotené z hľadiska parametrov fyzickej aktivity a kognitívnych funkcií. Okrem toho sme stanovili hladiny tau proteínu v plazme, ktorý je známy biomarker neurodegenerácie. Súčasne sme kvantifikovali hladiny miRNA. Naše údaje ukazujú, že v porovnaní s cvičením bez hlavičkovania je opakované hlavičkovanie lopty spojené s biochemickými zmenami, znížením sústredenej pozornosti a kognitívnej flexibility. V tejto štúdii tiež dokumentujeme, že ženy sú citlivejšie na údery do hlavy v porovnaní s mužmi, a že vystavenie opakovaným hlavičkám je spojené s fyziologickou odozvou organizmu, ktorá naznačuje zapojenie neuroprotektívnych signálov. Naše zistenia poukazujú na viaceré špecifické molekulárne dráhy, ktoré potenciálne pôsobia v ranom štádiu mozgových ochorení. Hlbšie skúmanie týchto dráh by mohlo byť sľubným prístupom k identifikácii nových biomarkerov a terapeutických cieľov pre liečbu

neurodegenerácie.



Obr. Analýza obohatenia signálnych dráh a proteín-proteínové interakcie. (a) Analýza deregulovaných miRNA po hlavičkovaní (tmavoružová) a cvičení (oranžová) odhalila, že hlavičkovanie je špecificky spojené so zvýšeným počtom dráh súvisiacich s ochoreniami a spracovaním genetických/environmentálnych informácií v porovnaní s cvičením. **(b)** Stratifikácia identifikovaných významne obohatených dráh po hlavičkovaní a cvičení do kategórií. **(c)** Analýza podsiete zdieľaných kategórií odhalila, že hlavičkový tréning je špecificky spojený s imunostimulačnými dráhami, dráhami neuronálneho vývoja a prežitia buniek. **(d)** Analýza asociácií génov a ochorení identifikovala po hlavičkovaní vyšší počet proteínov a proteínových interakcií spojených s neurodegeneráciou a Alzheimerovou chorobou.

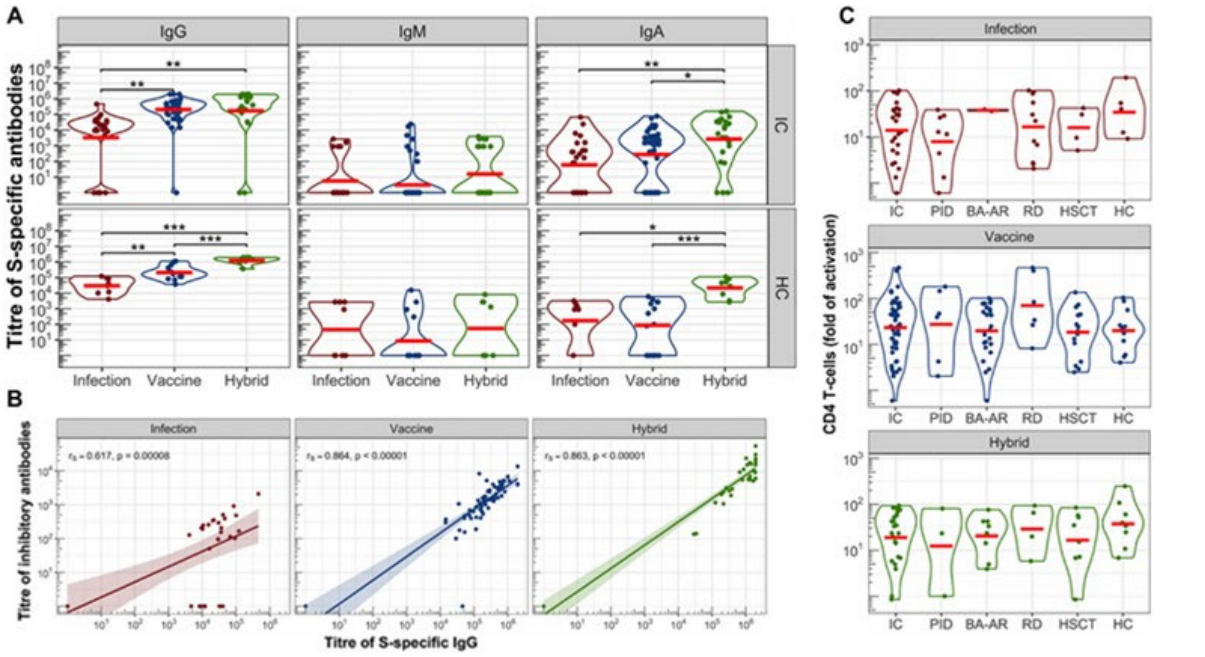
2.3.2. Výsledky aplikačného typu

Vplyv imunodeficiencie u detí a mladistvých na imunitnú odpoveď vyvolanú SARS-CoV-2 infekciou, očkovaním alebo ich kombináciou.

FIALOVA, Lubica – MACEK-NABOVA, Birivan – ZILKOVA, Monika – TURIC-CSOKOVA, Natalia – PALOVA, Denisa – KATINA, Stanislav – PAULIKOVA-ROLKOVA, Gabriela – CIZNAR, Peter – HORAKOVA, Julia – WOJCIAKOVA, Lubica – MARKOVA, Karina – KONTSEKOVA, Eva – KOVACECH, Branislav. Impact of immunodeficiencies on immunity induced by SARS-CoV-2 infection, mRNA BNT162b2 vaccination, and their combination in children and young adults. Front Immunol., 2025, 16:1661282. ISSN=1664-3224.

DOI=10.3389/fimmu.2025.1661282. IF: 5.9

Väčšina súčasných poznatkov o vplyve imunodeficiencie na imunitnú odpoveď indukovanú SARS-CoV-2 a očkovaním, pochádza z dospelej populácie. Naša prierezová štúdia skúmala protilátkovú a bunkovú imunitnú odpoveď na infekciu SARS-CoV-2, očkovanie Pfizer mRNA vakcínou alebo ich kombináciu v kohorte 102 imunokompromitovaných mladistvých pacientov vo veku 5-25 rokov. Výsledky ukázali, že infekcia indukovala najnižšie hladiny IgG protilátok špecifických voči povrchovému Spike-proteínu. Naopak, signifikantne vyššie hladiny protilátok dosahovali pacienti, ktorí boli očkovaní a tí,ktorí boli očkovaní, aj infikovaní (tzv. hybridná imunita). Pomocou bunkového inhibičného testu sme ukázali, že všetky tri stimuli (očkovanie, infekcia a ich kombinácia) navodili tvorbu vysokoafinitných neutralizačných protilátok. Tieto protilátky ktoré zohrávajú v imunitnej obrane proti vírusovej infekcii významú úlohu. Zaujímavým bolo zistenie, že väčšina imunokompromitovaných pacientov vykazovala aj efektívnu bunkovú imunitnú odpoveď, esenciálnu nielen pre vývoj a maturáciu protilátok, ale aj pre maturáciu buniek s cytotoxickou aktivitou.
Záverom, naše výsledky ukázali široké spektrum protilátkami sprostredkovanej imunity indukovanej v stave imunodeficiencie, čo naznačuje potenciál imunodeficientných pacientov účinne sa chrániť pred infekciou SARS-CoV-2. Na druhej strane sa ukazuje, že pacienti s deficitom tvorby protilátok v dôsledku imunodeficiencie sú schopní prekonať infekciu SARS-CoV-2 aktiváciou imunity sprostredkovanej T-bunkami.

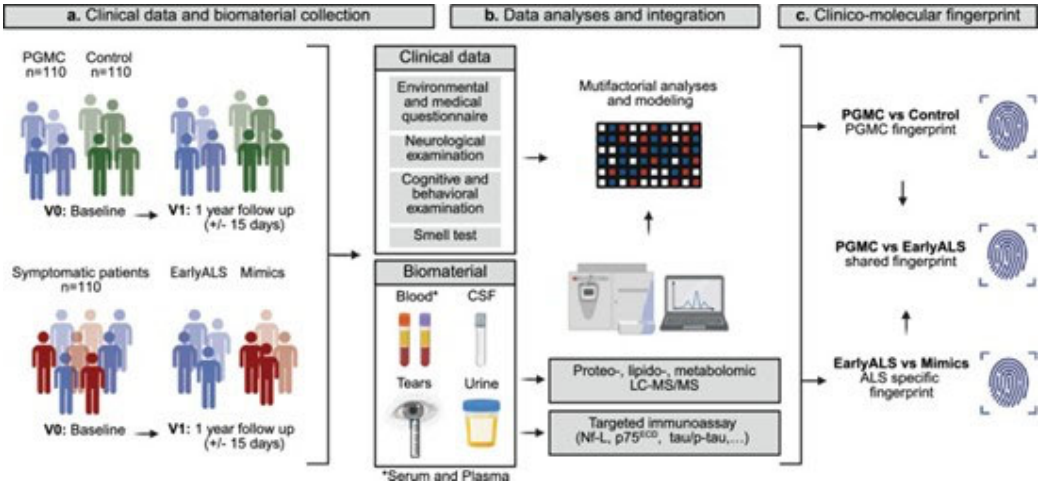


Obrázok: A) Titer S-špecifických protilátok triedy IgG, IgM, IgA u imunokompromitovaných (IC, immunocompromised) pacientov a zdravých kontrolných jedincov (HC, healthy control). B) Titer IgG S-špecifických protilátok u všetkých očkovaných jedincov a jedincov s hybridnou imunitou silno koreloval (r_s=0,86, P<.0001) s množstvom protilátok inhibujúcich internalizáciu S-proteínu v *in vitro* eseji. C) V rámci všetkých imunokompromitovaných pacientov (IC) sa u väčšiny vytvorila CD4+ T-bunková imunitná odpoveď, ktorá sa štatisticky nelíšila od zdravých kontrolných jedincov (HC). PID – primárne imunodeficiencie; sekundárne imunodeficiencie: BA-AR – bronchiálna astma, alergická rinitída; RD – reumatické ochorenia; HSCT – transplantácia hematopoetických kmeňových buniek.

2.3.3. Výsledky na báze medzinárodnej spolupráce

TZEPLAEFF, Laura - GALHOZ, Ana - MEIJS, Clara - CALDI, Gomes Lucas - KOVÁČ, Andrej - ŽILKA, Norbert - BENATAR, Michael - MENDEN, Michael P. - LINGOR, Paul. **Identification of a presymptomatic and early disease signature for amyotrophic lateral sclerosis (ALS): protocol of the premodiALS study.** In Neurological Research and Practice, 2025, vol. 7 iss. 1, art. no. 56. (2024: 3.200 - IF, Q2 - JCR, 1.061 - SJR, Q2 - SJR). ISSN 2524-3489. Dostupné na: https://doi.org/10.1186/s42466-025-00417-9

Publikácia je dielom jedného z najväčších odborných konzorcií zameraných na výskum amyotrofickej laterálnej sklerózy, ktoré tvoria výskumné a klinické pracoviská z Nemecka, Francúzska, Spojených Štátov, Švajčiarska, Turecka, Slovenska, Českej republiky a Izraela. Konzorcium je zamerané na hľadanie špecifického predklinického molekulového rukopisu predklinickej formy ALS. Publikácia prináša podrobný popis protokolu, ktorý využívame na diagnostiku pacientov, genetické testovanie, a zber vzoriek pre omické analýzy. Kohortu tvoria zdraví jedinci, pacienti s ALS – sporadická aj familiálna forma, a pacienti s ALS podobnými ochoreniami.
ALS kohorta je základom budúcich proteomických, lipidomických a metabolomických štúdií, ktoré môžu priniesť zásadné poznatky o mechnizmoch vedúcich ku vzniku ochorenia. Zároveň je možné identifikovať budúce ciele terapeutickej intervencie. Kohorta je svojim spôsobom výnimočná, pretože zahŕňa pacientov z Európy, Spojených Štátov a Izraela. Vďaka projektu sa nám v spolupráci s Jesséniovou lekárskou fakultou podarilo vytvoriť prvú slovenskú ALS kohortu a zaviesť niektoré moderné diagnostické prístupy.
Publikácia je prvým významným výstupom rozsiahlej medzinárodnej spolupráce, ktorá zdôrazňuje význam kvalitnej diagnosticky a štandardizovaného odberu a spracovania biologických vzoriek. Vytvára základ pre ďalšie medzinárodné spolupráce zamerané na výskum ALS.

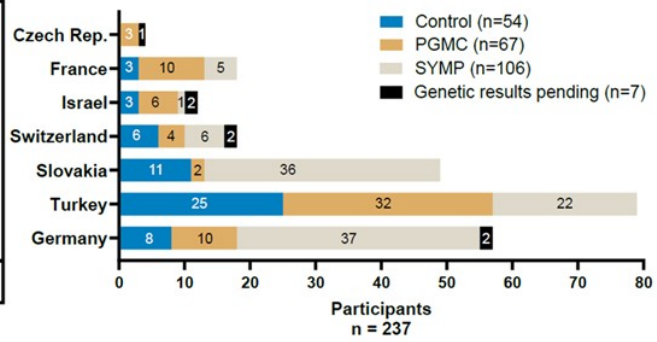


Obr. 1. Schemetické znázornenie diagnostického algrotimu a následného zberu vzoriek určených pre ďalšie analýzy. Súčasťou vyšetrenia sú dotazníky, neurologické a kognitívne vyšetrenie a zavedenie čuchového testu. Cieľom projektu je identifikovať molekulový rokupis predklinických a skorých klinických štádií ALS.

a. Total per visit

V0	V1	V2
4	0	0
18	1	0
12	8	0
18	7	0
49	34	0
79	72	9
57	24	5
237	146	14

b. Total per country



Obr. 2 Súčasný stav ALS kohorty. Celkové počty vyšetrených kontrolných jedincov, pacientov s dedičnými formami ALS, a symptomatických pacientov. Tabuľka ukazuje veľmi aktívne zapojenie Slovenska v budovaní celosvetovej kohorty.

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ	Počet v r. 2025/ doplnky z r. 2024
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)	**27 / 1**
10. Vedecké práce registrované vo Web of Science Core Collection alebo Scopus (ADMA, ADMB, ADNA, ADNB)	**16 / 0**
11. Vedecké práce v ostatných domácich časopisoch (ADFA, ADFB)	**0 / 0**
12. Vedecké práce v ostatných zahraničných časopisoch (ADEA, ADEB)	**0 / 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)	**4 / 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)	**1 / 0**
20. Preklady vedeckých a odborných textov (EAJ)	**0 / 0**
21. Heslá v odborných terminologických slovníkoch a encyklopédiách (BDA, BDB)	**0 / 0**
22. Recenzie v časopisoch a zborníkoch (EDI)	**0 / 0**

Evidujú 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. 2024 (zdroj JCR) *Počet článkov / doplnky*	26 / 0	11 / 1	5 / 0	1 / 0	43 / 1
Podľa SJR z r. 2024 (zdroj Scimago) *Počet článkov / doplnky*	35 / 0	7 / 1	1 / 0	0 / 0	43 / 1

Tabuľka 2g Ohlasy

OHLASY	Počet v r. 2024/ doplnky z r. 2023
Citácie vo WOS (1.1, 2.1)	1131 / 5
Citácie v SCOPUS (1.2, 2.2)	679 / 15
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)	232 / 12
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	34
Prednášky a vývesky na národných vedeckých podujatiach	18

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

NJEMOGA, Stefana - BEDNÁRIKOVÁ, Zuzana - BARRERA, Exequiel E. - GAŽOVÁ, Zuzana - CEHLÁR, Ondrej. Insights into the early oligomerization stages of truncated tau proteins. Plenary lecture. In SSB 2025: 13th International Conference Structure and Stability of Biomacromolecules, 9-12 September 2025, Kosice, Slovak Republic.

POLÁK, Adam - MARTONOVÁ, Katarína - NJEMOGA, Stefana - BARRERA, Exequiel - ŠKRABANA, Rostislav. Deciphering the role of small structural motifs in aggregation of tau protein : short communication. In SSB 2025: 13th International Conference Structure and Stability of Biomacromolecules, 9-12 September 2025, Kosice, Slovak Republic.

SYKOVÁ, Eva. Astrocytes and perineuronal nets in extrasynaptic transmission and neuroplasticity. In 50 Anniversary, 25 Biennial ESN, 31 Biennial HSN MEETING, 18-21 May 2025, Naxos, Greece.

SYKOVÁ, Eva - BASHEER, Neha - ŽILKA, Norbert. Extracellular matrix degradation trigger n euroinflammation and neurodegenerative cascades.: oral presentation. In Czech Neuroscience 2025, International Conference on Experimental and Clinical Neurposcience – 15-16 September 2025 Plzeň, Czech Republic.

ŠKRABANA, Rostislav - MARTONOVÁ, Katarína - POLÁK, Adam - NJEMOGA, Stefana - DVORSKÝ, R. - BARRERA, Exequiel - CEHLÁR, Ondrej. Tiny motifs doing huge things: Side-chain Propelled Rings (SPuRs) in the aggregation domain of tau protein. : Plenary lecture. In SSB 2025 : 13th International Conference Structure and Stability of Biomacromolecules, 9-12 September 2025, Kosice, Slovak Republic.

2.6.2. Vyžiadané prednášky na národných vedeckých podujatiach

DURGALA, Andrej - HORVÁTH, Marián - BELLO, Oskar Daniel - ŠKRABANOVÁ, Michaela - ČENTE, Martin - FILIPČÍK, Peter. Úloha exozómov vo výskume traumatického poškodenia mozgu: Biomarkery a terapeutické možnosti. In Študentská vedecká konferencia PriF UK Bratislava, 2025

HRYNTSOVA, Natalia. TRANSGENIC RODENTS MODELS - UNIVERSAL MATERIAL FOR THE STUDY OF HUMAN TAUOPATHIES. In 28. Košický morfologický deň : Animálne modely vo výskume, Košice, 22.-23.5.2025.

LABAJOVA, Nada. Využitie metódy RT-QuiC v diagnostike Parkinsonovej choroby. In: Ako veda formuje modernú kúpeľnú liečbu, 25.-26.11. 2025, Kúpeľný ostrov SLKP, Piešťany.

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2025

2.7.1. Vynálezy, na ktoré bol v roku 2025 udelený patent

a) na Slovensku

b) v zahraničí

2.7.2. Vynálezy prihlásené v roku 2025

a) na Slovensku

b) v iných krajinách ako prioritná prihláška

c) PCT

d) EP

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

2.7.3. Úžitkové vzory na Slovensku

a) prihlásené v roku 2025

b) udelené v roku 2025

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 2025 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
Čente Martin	VEGA	1
Čížková Daša	VEGA	4
Filipčík Peter	VEGA	1
Hromádka Tomáš	Doktogranty SAV	12
	Malá projektová schéma SAV	33
	Postdoktogranty SAV	10
Labajová Naďa	Postdoktogrant	2
Majerová Petra	VEGA	1
Turic Csóková Natália	VEGA	1

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Recenzovanie knižných publikácií a príspevkov vo vedeckých časopisoch

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

Meno pracovníka	Ved. monografie		Príspevky v časopisoch			Zborníky	
	Domáce	Zahra-ničné	WoS, SCOPUS	Iné databázy	Ostatné	Domáce	Zahra-ničné
Bhide Mangesh Ramesh	0	8	102	0	0	200	0
Cehlár Ondrej	0	0	3	0	0	0	0
Čížková Daša	0	0	0	0	0	1	0
Durgala Andrej	0	0	0	0	0	1	1
Piešťanský Juraj	0	0	18	0	0	0	0
Škrabana Rostislav	0	0	3	0	0	0	0
Spolu	**0**	**8**	**126**	**0**	**0**	**202**	**1**

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, amyotrofnej laterálnej sklerózе, roztrúsenej sklerózе 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./ NiU SAV). 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./NiU SAV). Úlohou Slovenskej spoločnosti pre neurovedy je podieľať sa na rozvoji a zvyšovaní úrovne odboru neurovied v Slovenskej republike a na koncepčnej 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 – predsedom je prof. MVDr. Mangesh Bhide, PhD./NiU SAV). 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 Societes) a Medzinárodnej únie imunologických spoločností – IUIS (International Union of Immunological Societes).

NIU SAV má dlhodobú spoluprácu s Trnavskou univerzitou, spolupracujú na projektoch zameraných na riziká hlavičkovania mladých futbalistov. Ústav spolupracuje s Jeseniovou lekárskou fakultou v Martine na spoločných projektoch zameraných na výskum Alzheimerovej choroby a amyotrofickej laterálnej sklerózy.

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.

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. Je spoluautorom programu MISIA, ktorá prináša inovatívne riešenia v oblasti neurológie, kardiológie a onkológie.

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). Súčasťou ich popularizačných aktivít sú aj pravidelné prednášky pre verejnosť organizované v rôznych mestách Slovenska (Bratislava, Lučenec, Ružomberok). 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 2025 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Prof. Mudr. Eva Syková, DrSc z NIU SAV, v.v.i. bola spolurganizátorkou prestížnej konferencie: **ESN-HSN joint Meeting 2025**, ktoré sa konalo **Grécku, Naxos v dňoch 18. – 21. mája 2025**. 25. zasadnutie Európskej spoločnosti pre neurochémiu (ESN) a 31. ročné zasadnutie Gréckej spoločnosti pre neurovedy (HSN) sa nieslo v duchu 50. výročia ESN. **Prof. Eva Syková viedla sympózium na tému: Extracellular matrix and astrocytes in health and disease** a prezentovala prednášku na tému: **Astrocytes and perineuronal nets in extrasysaptic transmission and neuroplasticity.**

NiU SAV organizovalo v spolupráci s liečebnými kúpeľmi v Piešťanoch medzinárodnú vedeckú konferenciu: **Ako veda formuje modernú kúpeľnú liečbu (25.11.-26.11.2025), Piešťanoch.** Konferencia bola zameraná na vedecké aspekty modernej kúpeľnej liečby s dôrazom na ľudské ochorenia mozgu. Na konferencii aktívne vystúpili zamestnanci NiU SAV: **doc. Norbert Žilka, Dr. Naďa Labajdová a Dr. Neha Basheer.** Konferencie sa zúčastnilo 180 účastníkov.

3.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2026 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

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
Hromádka Tomáš	0	1	0
Khiratkar Krutika	0	1	0
Syková Eva	0	0	1
Norbert Žilka	0	0	1
Spolu	0	2	2

3.2. Členstvo a funkcie v medzinárodných orgánoch

3.2.1. Členstvo a funkcie v medzinárodných vedeckých spoločnostiach, úniách a národných komitétoch 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 Societes (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)

doc. Natalia Borisovna Hryntsová, PhD.

All-Ukrainian Society of Anatomists, Histologists, Embryologists and Topographic Anatomists (funkcia: člen)
British Anatomical Society (funkcia: člen)
European Society of Endocrinology (funkcia: člen)

PharmDr. Andrej Kováč, PhD.

International Society of Pteridinology (funkcia: člen)

Mgr. Branislav Kováčech, PhD.

American Association for Advancement in Science (funkcia: člen)
European Society for Neurochemistry (funkcia: člen)
International Society for Neurochemistry (funkcia: člen)

Mgr. Naďa Labajová, PhD.

The International Parkinson and Movement Disorder Society (funkcia: člen)

Mgr. Petra Majerová, PhD.

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

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

American Association for the Advancement of Science (funkcia: člen)
Cajal club (funkcia: člen)
Croatian Science Foundation (funkcia: člen vedeckej rady)
Československá mikrobiologická spoločnosť (funkcia: člen)
Europen Federation of Immunological Societies (funkcia: člen)
Federation of European Neuroscience Societies (funkcia: člen výboru)

International Brain Research Organization (funkcia: člen výboru)
International Union of Immunological Societies (funkcia: člen)
New York Academy of Sciences (funkcia: člen)
Programme of European Neuroscience School (funkcia: chairman)
Society for Neuroscience (funkcia: člen)

doc. PharmDr. Juraj Piešťanský, PhD.

Česká spoločnosť pre hmotnostnú spektrometriu (funkcia: člen)

Mgr. Adam Polák

Czech Society for Structural Biology (funkcia: člen)

MVDr. Mgr. Tomáš Smolek, PhD.

Česká mikrobiómová spoločnosť ČSL JEP (funkcia: člen)
Česko-slovenská spoločnosť pre vedu o laboratórnych zvieratách (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: zakladajúci 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 Soceity 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. Účasť 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
Labajová Naďa	Fulbright Slovak Scholar Program	8
Škrabana Rostislav	Competition – the best PhD thesis in the field of structural biology 2024	5
	University of Bayreuth Centre of International Excellence "Alexander von Humboldt" Starter Grant Programme	1

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

Konzorcium InterTau, Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE), program 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 júni 2025 sme ukončili práce v rámci konzorcia **InterTAU** združujúceho **akademické a biotechnologické pracoviská Európy, Severnej a Južnej Ameriky a Ázie (Neuroimunologický ústav SAV (SR), Masarykova univerzita (ČR), Biovendor (ČR), Geneton (SR), Axon Neuroscience (SR), 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)).**
Projekt bol riešený od roku 2020 s prerušením počas roku 2021 spôsobeným pandémiou COVID-19. Aj keď náš ústav vstúpil do konzorcia iba v júni 2022, celkovo zabezpečoval viac ako polovicu všetkých aktivít súvisiacich s mobilitným programom projektu. Multidisciplinárny výskum konzorcia InterTau bol 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 2025:
V poslednom roku riešenia sme sa zamerali na dokončenie plánovaných stáží z nášho ústavu a v rámci konzorcia tak, aby sme naplnili plánovaný rozsah spolupráce. Šesť pracovníkov a študentov Neuroimunologického ústavu SAV strávilo spolu viac ako osem mesiacov na spolupracujúcich pracoviskách konzorcia v Argentíne, Českej republike a Indonézii. Finalizovali sme ďalšie vedecké publikácie, výsledok stáží vedcov v rámci konzorcia. V poslednom mesiaci riešenia dvaja pracovníci ústavu prednášali na Letnej škole InterTAU II v Mikulove, Česko. Projekt hodnotíme ako vysoko úspešný, niesol sa v znamení významnej internacionalizácie výskumného prostredia ústavu, rozvoja nových tém a získavania odborných skúseností. Intenzívne spolupracujeme na príprave follow-up projektu, ktorý by sme chceli podať v roku 2026.

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

Neuroimunologický ústav SAV vytvára sieť klinických pracovísk zameraných na modernú diagnostiku demencií. Jednotlivé centrá sa nachádzajú v takmer všetkých krajských mestách a menších mestečkách (Bratislava, Košice, Martin, Liptovský Mikuláš, Ružomberok, Nitra, Trnava, Prešov, Poprad). NIU SAV zabezpečuje harmonizáciu diagnostických nástrojov – neuropsychologické testy, neurologické vyšetrenie, MRI, PET, vyšetrenie biomarkerov v krvi a v mozgovo-miechovej tekutine. Vďaka našim aktivitám prudko stúpa počet vyšetrení amyloid PET na Slovensku a zároveň sa znásobuje aj počet centier, ktoré začínajú vyšetrovať biomarkery v klinickej praxi. Harmonizácia diagnostických nástrojov a celoplošné zavedenie biomarkerov v klinickej praxi sleduje dva hlavné ciele, pripraviť Slovensko na príchod modernej liečby schopnej modifikovať ochorenie a zvýšiť počet klinických skúšaní nových nádejných liekov, ktoré dávajú nádej slovenským pacientom. Súčasťou našich aktivít je aj príprava Národného plán pre riešenie demencie, ktorý pripravujeme v spolupráci s Ministerstvom zdravotníctva SR. Národný plán definuje súčasný stav a potrebné opatrenia, ktoré sú nevyhnutné, aby sme spomalili nárast počtu pacientov s demenciou a pripravili medicínsky systém na rýchlu integráciu farmakologických a nefarmakologických prístupov do medicínskej praxe. V spolupráci s MZ SR vzniká aj epidemiologická štúdia, ktorá prinesie dôležité informácie o celkovom počte pacientov a výskyte demencií v jednotlivých regiónoch.

NIU SAV začala spoluprácu s prestížnou americkou biotechnologickou firmou ALZHEON na príprave nového diagnostického testu pre Alzheimerovu chorobu. Alzheon sa špecializuje na liečbu Alzheimerovej choroby a iných neurodegeneratívnych ochorení. Hlavným liekovým kandidátom v ich výskume je ALZ-801 (valiltramiprosate) – perorálne podávaný proliečivo navrhnutý tak, aby blokoval tvorbu toxických amyloidových oligomérov, ktoré sú považované za kľúčový patogénny mechanizmus Alzheimerovej choroby. Tento liek sa vyvíja ako potenciálne chorobu modifikujúca terapia, v roku 2025 ukončila firma ALZHEON 3. fázu klinického testovania. ALZ-801 cieli špecifickú populáciu, pacientov s ranými štádiami Alzheimerovej choroby a genetickou predispozíciou (APOE4/4 homozygotov). Namiesto infúznych protilátok proti amyloidu, je ALZ-801 tabletka, ktorú by pacient mohol užívať doma. Cieľom spolupráce ktorá je zatiaľ naplánovaná na 18 mesiacov je vyvinúť diagnostický nástroj na monitorovanie toxických oligomérov beta amyloidu v krvi pacientov. Je to inovatívny prístup s veľkým využitím v klinickej praxi. NIU SAV disponuje rozsiahlou expertízou v oblasti hmotnostnej spektrometria, ktorá tvorí základ diagnostického testu.

5. Doktorandské štúdium a pedagogická činnosť

5.1. Údaje o doktorandskom štúdiu

Tabuľka 5a Počet doktorandov v roku 2025

Forma	Počet k 31.12.2025				Počet doktorandov po doktorandskej skúške		Počet ukončených doktorantúr v r. 2025					
							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	9	7	2	1	6	3	0	0	0	0	0	0
Denná z iných zdrojov	1	0	0	0	1	0	0	0	0	0	0	0
Externá	0	1	0	1	0	0	0	0	0	0	0	0
Spolu	10	8	2	2	7	3	0	0	0	0	0	0
Z toho zahraničných	7	3	1	0	5	2	0	0	0	0	0	0
Súhrn	18		4		10		0		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 2025 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 2025 úspešnou obhajobou

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

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

Tabuľka 5d Menný zoznam ukončených doktorandov v roku 2025 úspešnou obhajobou v nadštandardnej dĺžke štúdia

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

5.5. Uplatnenie absolventov doktorandského štúdia

Tabuľka 5e Prehľad uplatnenia absolventov doktorandského štúdia

Počet absolventov PhD. štúdia v roku 2025 (obhajoba leto 2025)	z toho koľkí sa zamestnali vo výskume (SAV, univerzity, rezortné výskumné ústavy)	z toho koľkí sa zamestnali v praxi mimo výskum, kde využívajú svoju kvalifikáciu	z toho koľkí sa zamestnali v praxi, kde nevyužívajú svoju kvalifikáciu	z toho koľkí boli nejaký čas nezamestnaní
0	0	0	0	0

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	Zahraniční doktorandi štátne občianstvo/počet
0	0	0	IND/4, AFG/3, SRB/2, KEN/1

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

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	mikrobiológia a imunológia	Univerzita veterinárskeho lekárstva a farmácie v Košiciach
všeobecné lekárstvo	5141	lekárske neurovedy	Lekárska fakulta UK
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 hodnosť alebo vyšší kvalifikačný stupeň
prof. MVDr. Mangesh Ramesh Bhide, PhD. (biológia)	prof. MVDr. Mangesh Ramesh Bhide, PhD. (Univerzita veterinárskeho lekárstva a farmácie v Košiciach)	
prof. MVDr. Daša Čížková, DrSc. (biológia)	prof. MVDr. Daša Čížková, DrSc. (Univerzita veterinárskeho lekárstva a farmácie v Košiciach)	
prof. MVDr. Daša Čížková, DrSc. (veterinárna chirurgia, ortopédia a röntgenológia)		

doc. RNDr. Peter Filipčík, CSc. (imunológia)		
prof. RNDr. Eva Kontseková, DrSc. (virológia)		
prof. RNDr. Eva Kontseková, DrSc. (molekulárna biológia)		
PharmDr. Andrej Kováč, PhD. (farmácia)		
Dr. h. c. prof. MVDr. Michal Novák, DrSc. (molekulárna biológia)		

5.8. Údaje o pedagogickej činnosti

Tabuľka 5i Prednášky a cvičenia vedené v roku 2025

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	1	2	0
Celkový počet hodín v r. 2025	69	3	414	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**	12
2.	**Počet vedených alebo konzultovaných diplomových a bakalárskych prác**	20
3.	**Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)**	9
4.	**Počet školených doktorandov (aj pre iné inštitúcie)**	17
5.	**Počet oponovaných dizertačných a habilitačných prác**	7
6.	**Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce**	7
7.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác**	1
8.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác**	5
9.	**Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách**	1

5.9. Iné dôležité informácie k pedagogickej činnosti

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: Poranenia hlavy a traumatické poškodenie mozgu u hráčov kolektívnych kontaktných športov

Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2018
Zhodnotenie:
V roku 2025 naďalej pokračovala úspešná spolupráca so zástupcami Katedry športových hier a Katedry edukačných a humanitných vied o športe. Primárnym cieľom je identifikovať molekulové mechanizmy indukované opakovaným miernym poranením hlavy resp. miernymi otrasmi hlavy, ku ktorým v kontaktných športoch často dochádza. Stabilizovali sme humánny model, ktorý slúži ako nástroj pre identifikáciu veľmi skorých biomárkerov neuronálneho poškodenia, prípadne aj identifikáciu potenciálnych terapeutických cieľov pre liečbu neuropatie. Analyzujeme periférnu plazmu, kde nachádzame zvýšené hladiny neuroproteínov špecificky asociovaných s ťažkými tauopatiami. Výskum je originálny, pretože doposiaľ žiadny biologický a molekulárny základ kauzálneho vzťahu medzi nárazmi do hlavy a neurokognitívnym poklesom u hráčov kontaktných športov stanovený nebol. Preto je aj ťažké stanoviť pravidlá pre prevenciu ochorení, ktoré môže byť spôsobené nárazmi do hlavy, ku ktorým patrí okrem iných aj tak závažné choroby ako sú chronická traumatická encefalopatia a Alzheimerova choroba. Spojením skúseností a profesionality našich pracovísk sa nám doteraz podarilo naše výsledky publikovať v renomovaných lekárskych časopisoch (PMID: 41057610, PMID: 36995709). V roku 2025 sme vykonali niekoľko experimentov na mladých športovcoch, študentoch FTVŠ, na vekovo homogénnej populácii. Získali sme sadu vzoriek krvi pred a po experimentálnom zaťažení, ktoré odrážalo štandardnú tréningovú jednotku. Vzorky sú teraz uskladnené pri teplote -80° C a pripravené na molekulánobiologickú a biochemickú analýzu v roku 2026. Podávame spoločné žiadosti o finančnú podporu grantových agentúr.

Názov univerzity/vysokej školy a fakulty: Fakulta zdravotníctva a sociálnej práce TVU
Oblasť spolupráce: Výskum dôsledkov úrazov hlavy a mierneho otrasu mozgu u hráčov kontaktných športov v kontexte psychologických a epidemiologických súvislostí

Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2020
Zhodnotenie:
Spolupráca s Trnavskou univerzitou v Trnave pokračovala veľmi úspešne aj v roku 2025. Analyzovali sme kognitívne dopady miernych otrasov mozgu u elitných mladých hráčok futbalu, ako aj u 20-22 ročných futbalistov – študentov FTVŠ. Zistili sme u nich štatisticky významný pokles v sústredenej pozornosti a kognitívnej flexibility po štandardnom hlavičkovom tréningu. Identifikované neuropsychologické zmeny sme asociovali s hladinami periférnych biomárkerov – neuroproteínov a malých nekódujúcich ribonukleových kyselín. Výsledky sme prezentovali v spoločných publikáciách (ISBN 978-80-8251-022-8, PMID: 41057610). Pomocou expertízy a skúseností, našich partnerov je našou prioritou využiť viacero paralelných stratégií na získanie a analýzu dát

vyčerpávajúco tak popísať celospoločenský dopad úrazov mozgu v Slovenskej Republike. Naše dáta budú slúžiť ako podklad pre návrh prevencie a pre liečbu a starostlivosť o pacientov po úrazoch mozgu. Ďalším naším cieľom je validovať v ženskej populácii identifikované deregulované signálne dráhy reprezentujúc 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. Zamerali sme sa 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 štúdii. 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 pacientskych 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 lakťových 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 rozdielnu 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

Názov inštitúcie: Centrum Memory
Oblasť spolupráce: Multidisciplinárna spolupráca
Sídlo spoločného pracoviska (ak je vytvorené):
Začiatok spolupráce: 2023
Zhodnotenie: 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.

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

6.3. Spoločné projekty s univerzitami a ostatnými inštitúciami mimo SAV

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

6.4. Iné typy spoločných aktivít s inštitúciami mimo SAV

7. 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	9	tlač	5	TV	2
rozhlas	2	internet	65	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
Ako veda formuje modernú kúpeľnú liečbu	medzinárodná	Piešťany, SK	25.11-26.11.2025	180
ESN-HSN joint Meeting 2025	medzinárodná	Naxos, GR	18. – 21.5. 2025.	
Traumatické poškodenie mozgu u hráčov kontaktných športov, futbalistov, hokejistov, hráčov basketbalu, hádzanej, florbalu a ďalších.	domáca	Bratislava, SK	5.12.2025	174

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	0	0	1
Spolu	0	0	1

7.5. Členstvo v redakčných radách časopisov

prof. MVDr. Mangesh Ramesh Bhide, PhD.

Folia Microbiologica (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)

doc. Natalia Borisovna Hryntsová, PhD.

JOURNAL OF MOLECULAR HISTOLOGY (funkcia: reviewer)

PharmDr. Andrej Kováč, PhD.

Current Pharmaceutical Design (funkcia: editor)
Molecules (funkcia: editor)
Pharmaceutics (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.

European Pharmaceutical Journal (funkcia: editor-in-chief)

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: predseda)
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)
Slovenska imunologická spoločnosť (funkcia: člen výboru)
Slovenska 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)

doc. Natalia Borisovna Hryntsová, PhD.

Slovenská Alzheimerova spoločnosť (funkcia: člen)
Slovenská Immunologicka 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 Kováčech, 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. Naďa Labajová, PhD.

Slovenská imunologická spoločnosť (funkcia: člen)
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)

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

Slovenská Alzheimerova spoločnosť (funkcia: predseda)
Slovenská farmakologická spoločnosť (funkcia: čestný člen)
Slovenská gerontologická a geriatrická spoločnosť (funkcia: člen)
Slovenská imunologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre neurovedy (funkcia: člen)
Učená spoločnosť SAV (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)

Mgr. Denisa Palová, PhD.

Slovenská imunologická spoločnosť (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)
Slovenska 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

V rámci spoločných projektov sme v spolupráci s FTVŠ, Trnavskou Univerzitou a Slovenskou spoločnosťou pre neurovedy pri SAV zorganizovali **mini-konferenciu zameranú na traumatické poškodenie mozgu u hráčov kontaktných športov, futbalistov, hokejistov, hráčov basketbalu**, **hádzanej, florbalu a ďalších**.
Konferencia sa uskutočnila dňa 5. 12. 2025 v aule FTVŠ, a bol to už štvrtý ročník takéhoto podujatia. Účasť prijali športovci, tréneri, telovýchovní pedagógovia, neurovedci a neuropsychológovia. Publikum tvorili hlavne študenti FTVŠ, doktorandi, fyzioterapeuti, zástupcovia športových zväzov, novinári ako aj študenti Strednej športovej školy Gaudeamus a niekoľkí pozvaní hostia. Konferencie sa celkovo zúčastnilo **174 poslucháčov**. Počas konferencie odznelo 14 prednášok a koreferátov, a okrem toho boli prezentované výsledky experimentálnych prác doktorandov vo forme posterov. K najzaujímavejším príspevkom patrili nasledovné: (1) Vybrané parametre individuálneho herného výkonu vo futbale s možnou afinitou k TBI, (2) Neurobiologické markery hlavičkovania vo futbale - muži verzus ženy, (3) Vláknitá štruktúra tau proteínu v súvislosti so zanedbanými úrazmi hlavy, (4) Subjektívna pohoda u futbalistov po prekonanom otrase mozgu a u futbalistov bez otrasu mozgu, (5) Epidemiologické aspekty úrazov mozgu pri športe a (5) Meranie kognitívnych dopadov pri hlavičkových experimentoch vo futbale. Dôležité dáta s významným presahom do praxe boli prezentované aj v klinickej štúdii, výsledkom ktorej bolo zistenie, že po včasnom chladení hlavy a krku je potrebný kratší čas na zotavenia elitných hokejistov s otrasom mozgu. **Z príspevkov na konferencii bol vydaný zborník vedeckých prác (ISBN 978-80-8251-022-8) a najdôležitejšie závery konferencie boli prezentované formou reportáže v TV Markíza, dňa 5.12.2025 (Televízne noviny).**

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 zboru expertov
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	clen
	Hodnotiteľská komisia na hodnotenie spôsobilosti právnických osôb a fyzických osôb uskutočňujúcich výskum a vývoj	člen
	Koordinačná platforma Rady vlády SR pre vedu, techniku a inovácie	člen
	Odborná pracovná skupina ku Globálnej pandemickej dohode (MZ SR)	člen
	Odborná pracovná skupina k Medzinárodným zdravotným predpisom (MZ SR)	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

Názov expertízy: Posúdenie posudkov z posudzovania rizika v uzavretých priestoroch (podľa §4 Vyhlášky č. 274/2019 Z. z.)
Adresát expertízy: Ústav zoológie SAV, v. v. i. v Bratislave
Spracoval: doc. RNDr. Peter Filipčík, CSc.
Stručný opis: Výsledkom posúdenia je konštatovanie, že používané génové technológie a práca s GMO v priestoroch Ústavu zoológie sú bezpečné pre človeka a nepredstavujú riziko ani pre životné prostredie a preto sú v súlade s §3, ods. (5) Vyhlášky č. 274/2019 Z. z., zaradené do rizikovej triedy 1.

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 vládnymi a parlamentnými orgánmi alebo pre ich potrebu

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
- Podpredseda SAV pre vedu, výskum, a inovácie

9.3. Členstvo v komisiách SAV

MUDr. Mgr. Tomáš Hromádka, PhD.

- Komisia pre hodnotenie grantov doktorandov SAV (člen)
- Komisia pre stratégiu rozvoja SAV (clen)
- Komisia SAV pre informačné a komunikačné technológie (clen)
- Komisia SAV pre médiá, komunikáciu a program Otvorená akadémia (člen)
- Porota pre udeľovanie Medzinárodnej ceny SAV (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

Uveďte 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 šancí a príležitostí pre pracovníkov, nehľadiac 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 31.12.2025 v zamestnaneckom pomere 30 žien, čo predstavuje 57,6 % z celkového počtu zamestnancov.

Z celkového počtu vedeckých pracovníkov na ústave pracuje 54,8 % žien.

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

Vedúcimi troch výskumných skupín sú na NIU SAV, v. v. i. ženy: prof. RNDr. Eva Kontseková, DSc., prof. MVDr. Daša Čížková, DSc, a MUDr. Dominika Fričová, PhD.
Prof. Eva Kontseková je zároveň zástupkyňou riaditeľa nášho ústavu.

Z osemnástich doktorandov NIU SAV, v. v. i., bolo v roku 2025 osem 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	7	4	3	1	1	0

2. Projekty APVV	9	5	4	8	7	1
3. Projekty EŠIF/OP ŠF, Plán obnovy EÚ	5	4	1	1	1	0
4. Projekty SASPRO	0	0	0	0	0	0
5. Projekty IMPULZ	0	0	0	0	0	0
6. Iné projekty (FM EHP, Vedecko-technické projekty, na objednávku rezortov a pod.)	1	0	1	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**
1a. Projekty Horizont 2020	0	0	0	2	2	0
1b. Projekty Horizont Európa	0	0	0	3	2	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	1	1	0
5. Projekty v rámci medzivládnych dohôd	0	0	0	0	0	0
6. Projekty Mobility, Mobility Basic, Open Mobility a Mobility Visit	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. Podpora excelentného výskumu: SAS-UPJŠ ERC Visiting Fellowship Grants, Seal of Excelence, TANDEM	0	0	0	0	0	0
10. Iné projekty	0	0	0	0	0	0

10.2.2. Výskum zameraný na rodovú problematiku

Uveďte stručné, základné informácie o projektoch orientovaných na rodovú problematiku, ak organizácia takýto výskum realizuje. Informácie o financovaní a výsledkoch takýchto projektov sa nachádzajú v kapitole 2 a v prílohe A-3.

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

Uveďte 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 Kováčech, PhD.**

Interní členovia

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

Externí členovia

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

Uveďte stručné, základné informácie k problematike.

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

Uveďte stručné, základné informácie k problematike.

11.4. Informácie o štrukturálnych a organizačných zmenách v organizácii

Uveďte stručné, základné informácie k problematike.

11.5. Zmeny zakladacej listiny, vnútorných predpisov organizácie alebo zakladateľa

Uveďte 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 SAV

Neuroimunologický ústav SAV, v. v. i. nemá 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 cieli 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. 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:

- LABORATÓRIUM PROTEOMIKY A METABOLOMIKY
(vedúci: PharmDr. Andrej Kováč, PhD.)
- LABORATÓRIUM ŠTRUKTÚRNEJ BIOLÓGIE
(vedúci: RNDr. Rostislav Škrabana, PhD.)
- LABORATÓRIUM IMUNOLÓGIE A NEUROIMMUNOLÓGIE
(vedúci: prof. RNDr. Eva Kontseková, DrSc.)
- LABORATÓRIUM INTEGROVANEJ NEUROMIKY
(vedúci: MVDr. Tomáš Smolek, PhD)
- LABORATÓRIUM SYSTÉMOVÝCH NEUROVIED
(vedúci: MUDr. Tomáš Hromádka, PhD.)
- LABORATÓRIUM MOLEKULÁRNEJ A BUNKOVEJ NEUROBIOLÓGIE
(vedúci: doc. Peter Filipčík, PhD.)
- LABORATÓRIUM POČÍTAČOVEJ NEUROBIOLÓGIE
(vedúci: Ing. Igor Jurišica, PhD)
- LABORATÓRIUM VÝSKUMU PARKINSONOVEJ CHOROBY
(vedúci: MUDr. Dominika Fričová, PhD.)
- LABORATÓRIUM TRANSLAČNÝCH NEUROVIED
(vedúci: MUDr. Petr Novák, PhD.)
- LABORATÓRIUM REGENERATÍVNEJ MEDICÍNY
(vedúci: prof. MVDr. Dasa Čížková, DSc.)
- LABORATÓRIUM MIKROBIOLÓGIE A IMUNOLÓGIE
(vedúci: prof. MVDr. Mangesh Bhide, PhD.

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 2025:

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.

Postdoktorandi

Neha Basheer sa aktívne zúčastnila na viacerých konferenciách: AD/PD™ 2025 vo Viedni a TAU GLOBAL CONFERENCE v Londýne a Ako veda formuje modernú kúpeľnú liečbu, Piešťany. Je hlavná riešiteľka za Slovensko v medzinárodnom JPND grante WESTERN ND.

Naďa Labajdová sa aktívne zúčastnila na konferencii Ako veda formuje modernú kúpeľnú liečbu, Piešťany.

PhD študenti

Kevin James sa aktívne zúčastnil na zahraničných konferenciách DRUG DELIVERY THROUGH THE PHYSIOLOGICAL BARRIERS" (Budapest) - April 24-26 2025, "FENS FRM 2025" (Oslo, Norway) June 16-19th 2025

Andrej Durgala sa zúčastnil CzeSEV Meeting 2025 (Praha, Česká republika) a na podujatí Bezpečnejší šport – ochrana pred následkami úrazov v kolektívnych športových hrách. IV. Ročník, Bratislava, 5.12.2025

Krutika Khiratkar sa zúčastnila medzinárodnej konferencie 41st International Winter-Workshop on Clinical, Chemical, and Biochemical Aspects of Pteridines 2025 (Innsbruck, Austria). Zároveň bola vyslaná na niekoľko mesačnú stáž do Spojených štátov (financované cez SAIA).

Muhammad Khalid Muhammadi sa zúčastnil v Rakúsku na International conference AD/PD 2025 a následne aj v Českej republike na International conference AD/PD 2025.

Adam Polák sa zúčastnil na konferencii XXI Discussions in Structural Molecular Biology and 8th User Meeting of CIISB v Českej republike, na konferencii Non-globular proteins in the era of

Machine Learning vo Vilnius, Litva, INTERNATIONAL CONFERENCE STRUCTURE & STABILITY OF BIOMACROMOLECULES "SSB 2025 v Košiciach, Bezpečnejší šport – ochrana pred následkami úrazov v kolektívnych športových hrách. IV. Ročník, v Bratislave a na letnej škole InterTAU Summer School II v Brno a Mikulov.

Stefana Nemjoga aa zúčastnila na konferencii XXI Discussions in Structural Molecular Biology and 8th User Meeting of CIISB v Českej republika, Non-globular proteins in the era of Machine Learning vo Vilnius, Litva, a na letnej škole InterTAU Summer School II v Brno a Mikulov.

Katarina Martonova sa zúčastnila na konferencii XXI Discussions in Structural Molecular Biology and 8th User Meeting of CIISB v Českej republike, Non-globular proteins in the era of Machine Learning vo Vilnius, Litva, a na letnej škole InterTAU Summer School II v Brno a Mikulov.

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 2025:

V roku 2025 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 2025 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**[NŽ1]

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 2025:

Rok 2025 priniesol kvalitatívny posun v publikačnej aktivite ústavu.

V priebehu jedného roku sme publikovali hneď niekoľko vedeckých prác v časopise ***Scientific report*** **z portfolia časopisov Nature.**

- Huniadi M, Nosalova N, Hornakova L, Petrouskova P, Kalinaj B, Mesarosova B, Cente M, Kubatka P, Hornak S, Cizkova D. Altered microRNA profiles and associated pathways in canine mammary adenocarcinoma. Sci Rep. 2025 Dec 3. doi: 10.1038/s41598-025-30579-0.
- Bhide K, Slavikova M, Talpasova L, Kuckova K, Klempa B, Tyagi P, Bhide M. Comprehensive mapping of the signaling events evoked by SARS-CoV-2 variants delta and omicron in human astrocytes. Sci Rep. 2025 Oct 22;15(1):36897. doi: 10.1038/s41598-025-20851-8.
- Jozefiaková J, Kulkarni A, Dhumal D, Kevély Á, Nováková E, Koči K, Peng L, Koči J, Bhide M. Nanobody conjugated with dendrimer nanoparticles effectively neutralizes tick-borne encephalitis virus. Sci Rep. 2025 Oct 10;15(1):35482. doi: 10.1038/s41598-025-19248-4.
- Petroušková P, Bhide K, Mochnáčová E, Kulkarni A, Jozefiaková J, Tkáčová Z, Maľarik T, Kucková K, Talpašová L, Víglaský J, Kevély Á, Koči K, Nováková E, Koči J, Bhide M. Peptides developed against receptor binding sites of the E glycoprotein neutralize tick-borne

encephalitis virus. Sci Rep. 2025 Apr 3;15(1):11435. doi: 10.1038/s41598-025-95449-1.

- Mochnáčová E, Bhide K, Kucková K, Jozefiaková J, Maľarik T, Bhide M. Antimicrobial cyclic peptides effectively inhibit multiple forms of Borrelia and cross the blood-brain barrier model. Sci Rep. 2025 Feb 20;15(1):6147. doi: 10.1038/s41598-025-90605-z.
- Bartosova L, Doka G, Kralova E, Balis P, Dulova U, Ferenczyova K, Kovac A, Piestansky J, Rajtik T. Pharmacokinetic analysis of selective TRPV2 inhibitor SET2 in rats. Sci Rep. 2025 Sep 1;15(1):32124. doi: 10.1038/s41598-025-13891-7.

V prestížnom časopise ***Journal of Neuroscience*** sme publikovali najnovšie poznatky ohľadom pochopenia mechanizmov extracelulárnej matrice v mozgu.

- Syková E, Voříšek I, Starčuk Z, Kratochvíla J, Pavlova I, Ichikawa Y, Kwok JCF, Kmoníčková E, Myronchenko S, Hromádka T, Smolek T, Avila M, Basheer N, Žilka N. Disruption of Extracellular Matrix and Perineuronal Nets Modulates Extracellular Space Volume and Geometry. J Neurosci. 2025 Feb 19;45(8):e0517242024. doi: 10.1523/JNEUROSCI.0517-24.2024.

Tím Petra Filipčíka publikoval nové zistenia týkajúce sa poškodenia mozgu pri hlavičkovaní s využitím nových krvných biomarkerov. Výsledky publikoval v prestížnom časopise **Communication Medicine.**

- Cente M, Perackova J, Peracek P, Majdan M, Toth I, Mikulic M, Hanes J, Spajdel M, Sivco P, Skrabanova M, Skrabana R, Jurisica I, Filipcik P. Changes in peripheral blood and cognitive performance after nonconcussive head impacts in elite female soccer players. Commun Med (Lond). 2025 Oct 7;5(1):417. doi: 10.1038/s43856-025-01127-8.

Niekoľko ročné úsilie odborníkov z tímu prof. Evi Kontsekovej viedlo k publikácii výsledkov v časopise **Froniers in Immunology**, ktoré sa týkajú imunitnej odpovede detských pacientov s imunologickými poruchami voči COVID-19 vakcínam.

- Fialova L, Macek-Nabova B, Zilkova M, Turic-Csokova N, Palova D, Katina S, Paulikova-Rolkova G, Ciznar P, Horakova J, Wojciakova L, Markova K, Kontsekova E, Kovacech B. Impact of immunodeficiencies on immunity induced by SARS-CoV-2 infection, mRNA BNT162b2 vaccination, and their combination in children and young adults. Front Immunol. 2025 Nov 7;16:1661282. doi: 10.3389/fimmu.2025.1661282. eCollection 2025.

IMAGEN Consortium, v ktorom pôsobí Igor Jurišica publikoval svoje najnovšie výsledky v časopise **Nature Communication.**

- Liao Z, Kumar K, Kopal J, Huguet G, Saci Z, Jean-Louis M, Pausova Z, Jurisica I, Bearden CE; IMAGEN Consortium; 16p11.2 European Consortium; Jacquemont S, Paus T. Copy number variants and the tangential expansion of the cerebral cortex. Nat Commun. 2025 Feb 17;16(1):1697. doi: 10.1038/s41467-025-56855-1.

E. Definovať formu spolupráce so súkromným sektorom

Neuroimunologický ústav SAV zintenzívnil spoluprácu s biotechnologickou firmou **AXON Neuroscience**, kde sa podieľa na rozmanitých vedeckých aktivitách. NiU SAV má podpísanú zmluvu o spolupráci, ktorá rieši formu spolupráce a financovanie prostredníctvom grantu. Zároveň sa začala spolupráca s americkou biotechnologickou spoločnosťou **Alzheon**, ktorá vyvíja liek proti Alzheimerovej chorobe - valiltramiprosate/ALZ-801. Spolupráca je zameraná na vývoj nového diagnostického testu pre Alzheimerovu chorobu, kde firma **Alzheon** využíva rozsiahlu expertízu v oblasti hmotnostnej spektrometrie. Je to prvá spolupráca, ktorá môže priniesť pracovisku výnosy z budúcich predajov testu, v prípade, že projekt bude komerčne úspešný.

14.3. Aktualizácia Akčného plánu organizácie v roku 2025

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 mozgovo-cievnej bariéry a štúdium transportných systémov
- nové diagnostické biomarkery
- nefarmakologické liečebné stratégie
- štruktúra globulárnych proteínov

2. Parkinsonova choroba
- procesy starnutia v ľudských synukleinopatiach

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 2025:
Na základe pripomienok openetov sme zacielili naše vedecké activity na tri hlavné ciele.
- Neuropatologické mechanizmy a výskum biomarkerov ľudských neurodegeneračných ochorení a traumatického poškodenia mozgu a miechy, budovanie pacientskych kohort
- Štrukturálna biológia bielkovín spôsobujúcich ľudské neurodegeneračné ochorenia (tau, alfa-synuklein a pod.)
- Imunologické parametre mRNA vakcín a prirodzenej infekcie COVID-19, prechod patogénov cez mozgovo-miechovú bariéru

B. Ústav by mal zadefinovať oblasti, v ktorých cieli na vedúcu pozíciu v Európe a vo svete a zamerať sa na najsilnejšie z nich
NIU SAV definovala niekoľko oblastí, kde cielime 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.

Progres za rok 2025:
NIU SAV má ambíciu získať postupne medzinárodnú líderskú pozíciu v nasledovných oblastiach vedeckého bádania:

- Liečba patogénov postihujúcich ľudský mozog – v tejto oblasti pôsobíme už takmer 20 rokov, tím Mangesha Bhide popísal mechanizmy prestupu patogénov cez mozgovo-cievnu bariéru, v súčasnosti sa zameriava na transport liekov do mozgu, ktorý zabezpečí vyššiu efektivitu liečby infekcií CNS
- Perineuronálne siete a extracelulárna matrix, fyziológia a patológia – naše pracovisko sa vďaka prof. Eve Sykovej postupne stáva lídrom v tejto oblasti. Disponujeme modernými animálnymi modelmi, máme dlhoročnú expertízu a posúvame horizonty poznania. V najbližšom období chceme začať využívať dvojfotónovú mikroskopiu na sledovanie aktivity perineuronálnej siete a jej vplyv na správanie nervových a gliových buniek.
- Mozgovo-cievna bariéra, mechanizmy a patogenéza – Andrej Kováč je dlhodobým lídrom v tejto oblasti, našou ambíciou je pochopiť mieru poškodenia bariéry v neurodegeneračných ochoreniach a iných závažných poškodeniach ľudského mozgu.
- Molekulový rukopis ALS – plánujeme sa spolupodieľať na identifikácii molekulového vzorca, ktorý dokáže odhaliť vznik ochorenia v predklinických fázach a zabezpečiť tak začiatok liečby v asymptomatickom štádiu.

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 dlhodobo udržateľnú kvalitu našich publikačných výstupov. Vedúci pracovníci identifikovali špičkové odborné časopisy, v ktorých sa chceme presadiť. Našim 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. Našim 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.

Progres za rok 2025:
V roku 2025 sme publikovali v niekoľkých renomovaných vedeckých časopisoch:
Nucleic acid research (IF=16.8), Nat Commun. (IF=14.7), Alzheimer's & Dementia (IF=13), Communication Med (IF=6.3), Front Immunology (IF=5.9), J Neuroscience (IF=4)

D. Posilniť výskum zlepšením štruktúry a stratégie získavania mladých vedeckých pracovníkov
V nasledujúcom období sa sústredíme 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.

Progres za rok 2025:
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
Našim 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
Progres za rok 2025:
Aplikovaný výskum NIU SAV bol doposiaľ realizovaný najmä prostredníctvom spolupráce s komerčným sektorom vo forme poskytovania špecializovaných výskumných služieb. V súčasnosti prebieha postupná transformácia našich aktivít smerom k posilneniu transferu technológií. Našou ambíciou je prejsť od modelu jednorazových služieb k modelu partnerského vývoja, v ktorom budú v zmluvách zakotvené licenčné príjmy z budúcich výnosov komerčne úspešných produktov vyví-janých v spolupráci s priemyselnými partnermi. Súčasťou tejto stratégie je aj príprava patentových prihlášok v spolupráci s americkými patentovými zástupcami, vrátane následného prenesenia práv do komerčnej sféry a vyjednávania podmienok licenčných poplatkov z budúcich komerčných vý-nosov. Dlhodobá tvorba a údržba kvalitného patentového portfólia si vyžaduje finančné investície, ktoré presahujú aktuálne kapacity nášho pracoviska.

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).

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

Uveďte informácie a podnety v súlade s názvom kapitoly.

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 dlhodobo nízke limity 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. Poskytujeme vyšetrenia biomarkerov pre Alzheimerovu chorobu, amyotrofickú laterálnu sklerózu, roztrúsenú sklerózu a spinálnu muskulárnu atrofiu. Dlhodobo nízky limit 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.

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

V roku 2025 Neuroimunologický ústav SAV, v.v.i. publikoval **43 vedeckých publikácii, z toho 35 bolo publikovaných v kvartile Q1**. V prepočte na celoročný priemerný počet vedeckých pracovníkov, riešiteľov projektov (22,01) vychádza 1,95 publikácie na vedeckého pracovníka/rok.
Publikovali sme hneď v niekoľkých renomovaných časopisoch:
Nucleic acid research (IF=16,8),
Nat Communication (IF=14,7),
Alzheimer's & Dementia (IF=13),
Communication Med (IF=6,3),
Front Immunology (IF=5,9),
EPMA Journal (IF=5,9),
Biomolecules (IF=4,8),
European Journal of Cell Biology (IF=4,3),
ADMET & DMPK (IF=4,3),
J Neuroscience (IF=4),
6 vedeckých prác vyšlo v časopise **Scientific Reports z portfolia časopisov Nature (IF=3,9)**.

V rámci spoluprác so zahraničnými vedeckými skupinami (hlavne vďaka projektom programu Horizon 2020) aj v roku 2025 pokračovala zvýšená mobilita vedeckých pracovníkov a študentov, **313 dní strávili naši pracovníci v zahraničí na študijných pobytoch (Česko, Indonézia, Argentína a USA).** Výsledky svojich projektov prezentovali vo forme prednášok a posterov na **18 zahraničných konferenciách a workshopoch (Česko, Francúzsko, Japonsko, Litva, Maďarsko, Nórsko, Poľsko, Rakúsko)**, na ktorých strávili celkom **106 dní.**

Pracovníci NIU SAV v.v.i. vrámci národných spoluprác s FTVŠ, Trnavskou Univerzitou a Slovenskou spoločnosťou pre neurovedy pri SAV zorganizovali už **4. ročník úspešnej mini-konferencie zameranej na traumatické poškodenie mozgu u hráčov kontaktných športov, futbalistov, hokejistov, hráčov basketbalu**, **hádzanej, florbalu a ďalších.** Dôležité **dáta s významným presahom do praxe boli prezentované aj v klinickej štúdii** a **boli prezentované formou reportáže v TV Markíza (Televízne noviny).**

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 2025 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 **ocenením troch mladých vedkýň z NIU SAV v.v.i. za vynikajúce publikácie v roku 2025 v oblasti neurovied - Slovenskou spoločnosťou pre Neurovedy a v oblasti imunológie - Slovenskou imunologickou spoločnosťou**.

NIU SAV v.v.i sa každoročne venuje aj **popularizačnej aktivite ústavu**. V roku 2025 mali vedeckí pracovníci NIU SAV v.v.i. **9 popularizačných prednášok, 5 prezentácií v tlači, 2 v televízii, 2 v rozhlase a 65 krát prezentovali na internete.**

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

Schválila vedecká rada organizácie SAV dňa 30.1.2025

Mgr. Branislav Kováčech, PhD.
predseda vedeckej rady

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

Výročnú správu o činnosti organizácie za rok 2025 vypracoval(i):

RNDr. Martin Čente, PhD., +421 2 5478 8100/405
Ing. Peter Horňák, +421 2 5478 8100/162
Mgr. Laura Ižáková, +421254788100
Dagmar Kutná, 02/32296126
RNDr. Monika Žilková, PhD., +421 2 5478 8100/109

Bratislava, 29.1.2026

doc. MVDr. Norbert Žilka, DrSc.
riaditeľ organizácie

PRÍLOHY k časti A

Príloha A-1

Zoznam zamestnancov a doktorandov organizácie k 31.12.2025

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.	30	0.30
6.	Ing. Jozef Hanes, DrSc.	100	1.00
7.	MUDr. Mgr. Tomáš Hromádka, PhD.	50	0.60
8.	RNDr. Petra Chaľová, PhD.	100	1.00
9.	PharmDr. Andrej Kováč, PhD.	100	1.00
10.	Mgr. Branislav Kováčech, PhD.	100	1.00
11.	Mgr. Naďa Labajová, PhD.	100	1.00
12.	Mgr. Petra Majerová, PhD.	100	1.00
13.	MUDr. Petr Novák, PhD.	100	1.00
14.	doc. PharmDr. Juraj Piešťanský, PhD.	100	1.00
15.	MVDr. Mgr. Tomáš Smolek, PhD.	100	1.00
16.	RNDr. Rostislav Škrabana, PhD.	100	1.00
17.	RNDr. Monika Žilková, PhD.	100	1.00
Vedeckí pracovníci			
1.	MSc. Neha Basheer, PhD.	100	1.00
2.	doc. Natalia Borisovna Hryntsová, PhD.	100	1.00
3.	Mgr. Katarína Mátyásová	50	0.42

4.	Mgr. Denisa Palová, PhD.	55	0.22
5.	Ing. Gabriela Paulíková Roľková, PhD.	100	0.76
6.	Mgr. Karoline Pichlerová, PhD.	100	1.00
7.	Mgr. Michaela Škrabanová, PhD.	100	0.78
8.	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.	MUDr. Vojtech Parrák	100	1.00
6.	Mgr. Katarína Tomková	100	1.00
7.	Mgr. Ľubica Wojčiaková	100	1.00
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Vanesa Cirbusová	80	0.54
2.	Mgr. Laura Ižáková	100	0.45
3.	Ing. Pavol Kováč	100	1.00
4.	Bc. Dana Kramplová	100	1.00
Odborní pracovníci ÚSV			
1.	Peter Holúbek	100	1.00
2.	Jana Jergušová	100	1.00
3.	Dagmar Kutná	100	1.00
4.	Stanislava Mandáková	100	1.00
5.	Jana Síthová	100	0.75
6.	Martin Szabo	100	1.00
7.	Jozef Végh	100	1.00
8.	Júlia Zakopčanová	100	1.00
Ostatní pracovníci			
1.	Mariia Andrusevych	100	0.96
2.	Mária Halásová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	**Dátum odchodu**	**Ročný prepočítaný úväzok**
Samostatní vedeckí pracovníci			
1.	doc. PaedDr. Stanislav Katina, PhD.	31.8.2025	0.67

Vedeckí pracovníci			
1.	MVDr. Veronika Maté, PhD.	11.2.2025	0.00
2.	PharmDr. Dominika Olešová, PhD.	30.4.2025	0.50
3.	PharmDr. Alena Polčík Michalicová, PhD.	19.12.2025	0.96
4.	Mgr. Jakub Šinský, PhD.	31.3.2025	0.25
Odborní pracovníci s VŠ vzdelaním (ostatní zamestnanci)			
1.	Mgr. Monika Hirmajerová	1.9.2025	0.00
2.	Ing. Dominika Paulíková	15.7.2025	0.54
Odborní pracovníci ÚSV			
1.	Marián Ťapka	31.7.2025	0.58

Zoznam doktorandov

	Meno s titulmi	**Škola/fakulta**	**Študijný odbor**
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Karolína Albertusová	Prírodovedecká fakulta UK	1536 biológia
2.	Mgr. René Beláček	Prírodovedecká fakulta UK	1536 biológia
3.	Mgr. Andrej Durgala	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. Katarína Martonová	Prírodovedecká fakulta UK	1536 biológia
7.	Mgr. Barbora Mesárošová	Prírodovedecká fakulta UK	1536 biológia
8.	MSc. Muhammad Khalid Muhammadi	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
9.	MSc. Abhijit Vasantrao Nikam	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
10.	Mgr. Stefana Njemoga	Prírodovedecká fakulta UK	1536 biológia
11.	Mgr. Adam Polák	Prírodovedecká fakulta UK	1536 biológia
12.	MgA. Viola Stuchlíková	Prírodovedecká fakulta UK	1536 biológia
13.	MSc. Miraj Ud Din Momad	Univerzita veterinárskeho lekárstva a farmácie v Košiciach	1536 biológia
14.	MSc. Sivabalan Vairamuthu	Prírodovedecká fakulta UK	1536 biológia
15.	MUDr. Dorothy Wasike	Lekárska fakulta UK	1536 biológia
16.	MSc. Shahid Ullah Zadran	Prírodovedecká fakulta UK	1536 biológia
Interní doktorandi hradení z iných zdrojov			
1.	Mgr. Marián Horváth	Prírodovedecká fakulta UK	1536 biológia

Externí doktorandi			
1.	Mgr. Vanesa Cirbusová	Prírodovedecká fakulta UK	1536 biológia

Zoznam zamestnancov prijatých do jedného roka od získania PhD.

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

Zoznam emeritných vedeckých zamestnancov

	Meno s titulmi

Príloha 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: 1500 €

Dosiahnuté výsledky:
Vedci z NiU (traja PhD študenti a traja vedeckí pracovníci) sa v rámci projektu zúčastnili konferencie „3rd ML4NGP meeting on Machine Learning and Non-globular proteins“ konanej v meste Vilnius v Litve, kde prezentovali 2 prednášky a 4 postery. Účasť vedeckých pracovníkov bola plne hradená z prostriedkov Európskeho projektu COST CA21160 (ML4NGP).

Programy: INTERREG

2.) Vplyv požitia mikroplastov na zdravie mozgu a degeneráciu neurónov *(The influence of microplastic ingestion on brain health and neuronal degeneration)*

Zodpovedný riešiteľ:	Andrej Kováč
Trvanie projektu:	1.6.2025 / 31.5.2028
Evidenčné číslo projektu:	NFP404101B456
Organizácia je koordinátorom projektu:	nie
Koordinátor:	FFoQSI GmbH Technopark 1D, 3434 Tulln an der Donau, Rakúsko
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	40176,94 €

Dosiahnuté výsledky:
Prvá projektová perióda viedla k viacerým stretnutiam cezhraničného hlavného partnera zo Slovenska, vedúceho partnera a strategických partnerov. Počas týchto stretnutí sa riešitelia navzájom spoznali, vymenili prvé vedecké poznatky a prediskutovali ďalšie kroky výskumu. Počas prvej fázy riešenia projektu sa uskutočnili dve laboratórne stretnutia za účasti všetkých partnerov, na ktorých sa diskutovali vedecké a administratívne detaily. Prvá laboratórna návšteva na pôde Neuroimunologického ústavu s cieľom osvojenia si nových techník sa uskutočnila v Decembri 2025.

Programy: ERANET

3.) 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:	0

Dosiahnuté výsledky:
Projekt sa zameriaval na liečbu bakteriálnych infekcií v ťažko dostupnom prostredí centrálneho nervového systému, ktorá si pre rastúcu antimikrobiálnu rezistenciu vyžaduje nový prístup v zdravotnej starostlivosti. Cieľom projektu bolo vyvinúť účinný nanosystém na transport liečiv (nano-drug delivery system, nDDS) so schopnosťou prejsť cez hematoencefalickú bariéru (HEB) a pôsobiť proti neuroinvazívnym patogénom, ako sú Neisseria meningitidis či Borrelia garinii. Výsledky projektu preukázali, že najúčinnejšími nDDS sú amfifilné dendriméry. Obsahujú nízku dávku antibiotika a majú na svojom povrchu konjugované špecifické nanoprotilátky spolu s HEB-peptidom umožňujúcim prechod cez HEB. Výsledky tiež naznačili, že sľubnou alternatívou k antibiotikám môže byť zmes peptidov s náhodnou sekvenciou aminokyselín, ktoré sú vďaka svojej hydrofóbnej štruktúre antibakteriálne. Testované látky boli účinné proti študovaným neuroinvazívnym patogénom, stabilné a nevykazovali cytotoxicitu v in vitro ani in vivo štúdiách. Tieto výsledky prinášajú nové poznatky do vývoja terapeutík na báze nanosystémov a ich cielené využitie v liečbe neuroinfekcií.

4.) 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:
Súčasné epidemiologické dáta ukazujú, že celkový počet prípadov traumatického poranenia mozgu (TBI) vykazuje zvýšenú mieru výskytu najmä u dospievajúcich a mladých dospelých vo veku 15 – 24 rokov. V nadväznosti na predchádzajúce dáta získané počas riešenia projektu, prebiehali v poslednom roku molekulárne a behaviorálne analýzy mladých profesionálnych futbalistov a futbalistiek. Výsledky komparatívnej štúdie ukázali, že hladiny periférnych biomarkerov pTau181 a pomeru pTau181/Tau korelujú s počtom podprahových opakovaných nárazov do hlavy, čo naznačuje priamy súvis medzi expozíciou nárazov do hlavy u mladých profesionálnych športovcov

a nárastom biomarkerov pre neurodegeneratívne ochorenia. Okrem toho sme zistili, že opakované hlavičkovanie lopty v modelovanom tréningu je spojené s krátkodobým zhoršením kognitívnych schopností. Navyše, získané dáta poukazujú na špecifické neuroprotektívne dráhy, ktoré sa zapájajú do odozvy na opakované podprahové nárazy do hlavy. Dosiahnuté výsledky poskytujú prehľad o akútnych reakciách organizmu a sú potenciálne relevantné pre ďalší výskum biomarkerov a hodnotenie rizika vzniku neurokognitívnych alebo neurodegeneratívnych porúch v neskoršom živote v dôsledku vystavenia opakovaným nárazom do hlavy. Výsledky štúdie boli publikované v odbornom časopise (PMID:41057610).

5.) 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: 40385 €

Dosiahnuté výsledky:
V rámci analýzy dát z hľadiska tzv. "bodov zlomu", ktorý je hlavnou témou projektu ERA-NET Neuron II/2023/77/Progress, sme sa zamerali na určenie dôsledkov miernych otrasov mozgu, a to špecificky v kontexte neurodegeneračných ochorení. Navrhli a aplikovali sme metodické postupy s použitím teórie grafov na identifikáciu nových primárnych biomarkerov, ktoré by mohli indikovať počiatočné fázy neuropatogenézy. Dôraz bol kladený na zabezpečenie bezstresového longitudinálneho a individuálneho monitorovania jednotlivých účastníkov štúdie, s použitím novo-vytvoreného časovo-priestorového modelu neurodegenerácie. Špecifikované boli východiskové parametre (doteraz známe molekuly), tak aby bolo možné identifikovať mechanizmy spájajúce činnosť mozgu a kardiovaskulárneho aparátu.
Z cieľom rozšíriť spoluprácu v oblasti duševného zdravia a odolnosti s použitím moderných výpočtových prostriedkov, vrátane umelej inteligencie a World Community Grid, sme sa zúčastnili na 2025 Global Center for AI in Mental Health Summit: Resilient Innovation in Mental Health Through AI and Global Partnerships, kde sme prezentovali príspevok: World Community Grid: Massive computation, AI, brain injury, depression and neurodegeneration. Finalizovali sme prípravu dát pre publikáciu: Cente M, Perackova J, Peracek P, Majdan M, Toth I, Mikulic M, Hanes J, Spajdel M, Sivco P, Skrabanova M, Skrabana R, Jurisica I, Filipcik P. Changes in peripheral blood and cognitive performance after nonconcussive head impacts in elite female soccer players. Commun Med (Lond), 5(1):417, 2025.

Programy: Horizont 2020

6.) 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:	24302,88€ Podpora medzinárodnej spolupráce z národných zdrojov: 4603 €

Dosiahnuté výsledky:
V poslednom roku riešenia sme sa zamerali na dokončenie plánovaných stáží z nášho ústavu a v rámci konzorcia tak, aby sme dosiahli plánovaný rozsah spolupráce. Šesť pracovníkov a študentov Neuroimunologického ústavu SAV strávilo spolu viac ako osem mesiacov na spolupracujúcich pracoviskách konzorcia v Argentíne, Českej republike a Indonézii. Finalizovali sme ďalšie vedecké publikácie, výsledok stáží vedcov v rámci konzorcia. V poslednom mesiaci riešenia dvaja pracovníci ústavu prednášali na Letnej škole InterTAU II v Mikulove, Česko. Projekt hodnotíme ako vysoko úspešný, niesol sa v znamení významnej internacionalizácie výskumného prostredia, rozvoja nových tém a získavania odborných skúseností. Intenzívne spolupracujeme na príprave follow-up projektu, ktorý by sme chceli podať v roku 2026.

Syková, Eva, Ivan Vořišek, Zenon Starčuk, Jiří Kratochvíla, Iveta Pavlova, Yuki Ichikawa, Jessica C. F. Kwok, Eva Kmoníčková, Svitlana Myronchenko, Tomáš Hromádka, Tomáš Smolek, Martin Avila, Neha Basheer, and Norbert Žilka. 2025. ‘Disruption of Extracellular Matrix and Perineuronal Nets Modulates Extracellular Space Volume and Geometry'. The Journal of Neuroscience: The Official Journal of the Society for Neuroscience 45(8):e0517242024. doi:10.1523/JNEUROSCI.0517-24.2024.

Barrera, Exequiel E., Rostislav Skrabana, and Diego M. Bustos. 2025. ‘Deciphering Opening Mechanisms of 14-3-3 Proteins'. Protein Science: A Publication of the Protein Society 34(4):e70108. doi:10.1002/pro.70108.

7.) Rukopis pre-motorického štádia amytrofnej 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: 55992 € Podpora medzinárodnej spolupráce z národných zdrojov: 6137 €

Dosiahnuté výsledky:
V poslednej etape riešenia projektu sme pristúpili ku analýze vzoriek klinickej kohorty PremodiALS. Celkovo bolo zozbieraných 390 vzoriek plazmy, 145 vzoriek CSF a 325 vzoriek moču. Metabolomická analýza vzoriek plazmy a CSF ukázala, že QC vzorky (vzorky kontroly kvality) sa v PCA analýze od seba v jednotlivých skupinách analyzovaných vzoriek signifikantne nelíšia a výsledky je teda možné považovať za technicky správne spracované. V súčasnosti prebieha kontrola, validácia a bioinformatická analýza výsledkov.

Programy: ICGEB

8.) 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:	18047,86 €

Dosiahnuté výsledky:
V druhom roku riešenia projektu sme nadviazali na predchádzajúce aktivity a sústredili sa na analýzu miRNA profilu v extracelulárnych vezikulách (EVs) získaných z transgénnych neurálnych modelov. Pôvodne plánovaný knockout SNCA génu sa ukázal ako problematický z hľadiska životaschopnosti buniek, preto sme stratégiu upravili na modely s rôznou úrovňou expresie SNCA (WT a A53T) vo viacerých neuronálnych bunkových líniách (ReNcell VM a SH-SY5Y). Tieto modely boli úspešne charakterizované a následne sme optimalizovali protokol izolácie EVs a extrakcie miRNA na sekvenačnú analýzu. Prebehla inicializácia analýzy získaných sekvenačných dát s cieľom identifikovať rozdiely v regulácii patológie v závislosti od úrovne SNCA expresie. Paralelne sme začali so zberom biologických vzoriek (krv, plazma, moč) od pacientov s Parkinsonovou chorobou pre následnú koreláciu zmeny obsahu miRNA v EVs s klinickými parametrami. Výsledky sú priebežne analyzované s dôrazom na robustnosť a biologickú relevanciu identifikovaných miRNA. Projekt je realizovaný v súlade s plánom a výsledky boli prezentované na dvoch odborných konferenciách v zahraničí.

9.) 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:	10741,61 € Podpora medzinárodnej spolupráce z národných zdrojov: 1534 €

Dosiahnuté výsledky:
Cieľom projektu je objasniť mechanizmy, prostredníctvom ktorých môže metabolizmus lipidov ovplyvňovať a modulovať progresiu neurofibrilárnej patológie. Lipidový metabolizmus a tvorba špecializovaných lipidových mediátorov predstavujú významný regulačný faktor zápalových procesov v mozgu, ako aj vzájomných interakcií medzi gliálnymi a neurónovými bunkami. Počas prvého roku riešenia projektu bol optimalizovaný protokol na izoláciu mozgových imunitných buniek, konkrétne astrocytov a mikroglií, z dospelých potkanov. Následne bol lipidóm

izolovaných buniek analyzovaný pomocou necielenej lipidomickej analýzy založenej na hmotnostnej spektrometrii. Zmeny v produkcii lipidov boli hodnotené v rôznych štádiách rozvoja tau patológie.
S cieľom detailne preskúmať mechanizmy, ktorými tau patológia ovplyvňuje metabolizmus lipidov, sme vytvorili trojitý bunkový model pozostávajúci z gliových buniek a neurónov exprimujúcich patologicky skrátenú formu tau proteínu. Tento model bol dôkladne charakterizovaný a bude využitý na realizáciu funkčných experimentov.

Programy: Horizont Európa

10.) 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: 97744 €

Dosiahnuté výsledky:
Projekt prináša inovatívny pohľad na vplyv vysoko-kalorickej diéty na rozvoj neurodegenerácie v Alzheimerovej chorobe. Centrálnu úlohu zohráva metabolický zápal, ktorý je hnacou silou mnohých patologických procesov vrátane aterosklerotických zmien. Niektoré štúdie ukazujú, že špecifické metabolity sa dokážu viazať na povrchové receptory bielych krviniek a spúšťať zápalové procesy podobne, ako to realizujú mikroorganizmy. V projekte sme testovali účinok vysokokalorickej diéty – vysoký obsah cukrov, tukov, nižší obsah vlákniny, na rozvoj neurodegeneračných zmien v mozgu transgénnych zvierat produkujúcich patologické formy tau proteínu. Diéta podávaná počas troch mesiacov výrazne modifikovala extracelulárne prostredie, avšak signifikantne neovplyvnila šírenie tau neurofibrilárnej patológie. Vysokokalorická strava zvýšila hustotu perineuronálnej siete v hipokampe zvierat. Diéta ovplyvnila nárast telesnej hmotnosti v čase, v porovnaní s transgénnymi zvieratami na normálnej diéte, ktorých hmotnosť stagnuje po dosiahnutí pohlavnej dospelosti (efekt neurodegenerácie). Lipidomická analýza odhalila odlišný lipidomický rukopis medzi kontrolnými a transgénnymi zvieratami. Projekt prináša nový pohľad na vplyv diéty na rozvoj demencie.

11.) 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: 124096 €

Dosiahnuté výsledky:
Projekt v roku 2025 pokračoval podľa stanovených cieľov. Hneď v úvode roku sa nám podarilo publikovať článok do medzinárodného časopisu, kde sme prezentovali vplyv rozrušenia perineuronálnych sietí a mimobunkovej matrix na mimobunkový priestor a atrofiu astrocytov. Zmeny na astrocytoch pomocou modulácie perineuronálnych sietí môžu ovplyvňovať významné procesy ako extrasynaptický prenos, komunikáciu medzi bunkami a neuronálnu plasticitu. Ďalej nás stále zaujímal vplyv obohateného prostredia a diéty bohatej na prospešné tuky a vitamíny na šírenie tau patológie. V priebehu roka sme nadviazali na predošlé obdobie a zozbierané vzorky (krv, mozog) sme podrobili viacerým analýzam na úrovni morfológie, proteomiky, tau patológie a prítomnosti biomarkerov v krvnej plazme. Imunohistochemická analýza v oblasti hipokampu myšacích modelov pomocou AT8 protilátky preukázala signifikantné rozdiely v množstve neurofibrilárnej tau patológie medzi skupinami, ktoré boli bez intervencie obohateného prostredia a špeciálnej diéty a medzi skupinami s intervenciou. Momentálne pracujeme na vyhodnotení tau patológie v oblasti mozgového kmeňa. V ďalšom období sa zameriame na vyhodnotenie zápalových procesov v hipokampe a mozgovom kmeni a takisto aj na vyhodnotenie biomarkerov krvnej plazmy, čo nám umožní komplexnejší pohľad na procesy prebiehajúce v mozgu a na periférii. Dosiahnuté výsledky plánujeme pripraviť do prezentačnej a publikačnej podoby.

Publikácie:
Syková E, Voříšek I, Starčuk Z, Kratochvíla J, Pavlova I, Ichikawa Y, Kwok JCF, Kmoníčková E, Myronchenko S, Hromádka T, Smolek T, Avila M, Basheer N, Žilka N. Disruption of Extracellular Matrix and Perineuronal Nets Modulates Extracellular Space Volume and Geometry. J Neurosci. 2025 Feb 19;45(8):e0517242024. doi: 10.1523/JNEUROSCI.0517-24.2024. PMID: 39753300; PMCID: PMC11841756.

12.) 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:	208228,93 € Podpora medzinárodnej spolupráce z národných zdrojov: 5524 €

Dosiahnuté výsledky:
Projekt ADDIT-CE prináša prelomové riešenia v oblasti manažmentu Alzheimerovej choroby, vývoja nových liekov, spolupráce medzi akademickými inštitúciami a komerčnou sférou v Českej republike a na Slovensku. Naše pracovisko sa podieľa na budovaní siete diagnostických centier, ktoré budú schopné poskytnúť modernú diagnostiku Alzheimerovej choroby a príbuzných demencií. Zároveň vznikol koncept Národného plánu, ktorý riešime v spolupráci so Slovenskou Alzheimerovou spoločnosťou. Vo výskume sme sa zamerali na vývoj nového diagnostického testu pre Alzheimerovu chorobu. Pripravili sme niekoľko špecifických protilátok a charakterizovali ich biologické vlastnosti. Po prvý krát sme otestovali nový krvný diagnostický test, ktorý dokáže identifikovať neurodegeneráciu Alzheimerovho typu u ľudí v prodromálnom štádiu. Celkovo sme analyzovali takmer 400 vzoriek, na základe výsledkov sme vyberali ľudí v riziku do štúdie nefarmakologických intervencií, ktorej cieľom je spomaliť neurodegeneračné procesy v mozgu a

zmierniť neurozápal. V spolupráci s Ministerstvom zdravotníctva SR sme začali pracovať na koncepte epidemiologickej štúdie, ktorá nám môže priniesť prvé informácie o súčasnom stave demencií na Slovensku.

Domáce projekty

Programy: VEGA

1.) Dysfunkcia interakcie medzi mikrobiómom, črevom a mozgom sprostredkovaná západnou diétou pri Alzheimerovej chorobe *(Western diet-mediated dysfunction of microbiome-gut-brain-axis in Alzheimer's disease)*

Zodpovedný riešiteľ:	Neha Basheer
Trvanie projektu:	1.1.2025 / 31.12.2027
Evidenčné číslo projektu:	2/0158/25
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 6149 €

Dosiahnuté výsledky:
Cieľom projektu je objasniť vplyv západnej diéty na os mikrobióm–črevo–mozog a jej úlohu v rozvoji tau patológie a neurozápalu pri Alzheimerovej chorobe. V hodnotenom období absolvovali experimentálne zvieratá 3-mesačnú intervenciu západnou diétou v súlade so schváleným harmonogramom projektu. Po 3 týždňoch diéty boli zvieratá inokulované sarkozylom obohateným tau izolovaným z mozgového tkaniva pacientov s Alzheimerovou chorobou, s cieľom sledovať šírenie tau patológie v podmienkach diétnou stravou indukovaného zápalu. Po ukončení diétneho protokolu boli zvieratá humánne usmrtené a biologické vzorky (mozgové tkanivo, plazma a vzorky určené na analýzu mikrobiómu) boli odobraté a archivované. V súčasnosti prebieha spracovanie vzoriek zamerané na histopatologické hodnotenie tau patológie a sekvenačnú analýzu črevného mikrobiómu.

2.) 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: 9384 €

Dosiahnuté výsledky:
V rámci tretieho roku riešenia projektu boli pripravované skrátené tau proteíny a merané ich NMR spektrá. Taktiež boli pripravené mutantné formy so zámenou aminokyseliny cysteín na pozícii tau 322 za serín, aby bolo možné sledovať vplyv dimerizácie na výsledné NMR spektrum. Boli pripravené mutantné formy skráteného tau proteínu tau297-391 (dGAE) C3222S a tau321-391

C322S, a bola charakterizovaná ich väzba s protilátkou DC11 metódou kompetitívnej ELISA a boli porovnané ich agregačné vlastnosti so skrátenými nemutovanými formami tau proteínu.

3.) 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: 11288 €

Dosiahnuté výsledky:
Traumatické poranenie mozgu (TBI) patrí k významným zdravotníckym problémom súčasnej populácie. Aj v prípade ak je klasifikované ako mierne (mTBI), ale je opakované, môže viesť k vážnym neuronálnym poruchám. Pre identifikáciu a lepšie pochopenie skorých neuropatologických zmien, vyvolávaných opakovanými poraneniami hlavy sú zvieracie modely nevyhnutné. V tejto štúdii sme charakterizovali zmeny správania v animálnom modeli po opakovaných mTBI. Behaviorálna analýza odhalila, že rýchlosť pohybovej aktivity sa u zvierat vystavených opakovaným mTBI v porovnaní s kontrolnými jedincami nelíši, avšak opakované poranenie mozgu je spojené s úzkostnými zmenami bez evidentných globálnych pohybových deficitov. Získané výsledky naznačujú zmeny hladín patologicky fosforylovaného tau proteínu v mozgovom tkanive po TBI. V poslednom roku riešenia projektu budú prebiehať proteomické a transkriptomické analýzy zamerané na objasnenie molekulárnych dráh zapojených do neuronálnej signalizácie po TBI, ako aj analýzy pre identifikáciu potenciálnych kandidátnych biomarkerov pre diagnostiku a prognostiku úrazov hlavy v budúcnosti.

4.) 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: 3557 €

Dosiahnuté výsledky:
Mechanizmy, prostredníctvom ktorých môže metabolizmus lipidov ovplyvňovať a modulovať progresiu neurofibrilárnej patológie, zatiaľ neboli dostatočne preskúmané a detailne charakterizované. Cieľom projektu je komplexne analyzovať úlohu metabolizmu lipidov a špecializovaných lipidových mediátorov v regulácii zápalových procesov v mozgu, ako aj ich vplyv na vzájomnú komunikáciu medzi gliálnymi a neuronálnymi bunkami, ktorá zohráva kľúčovú úlohu pri neurodegeneratívnych ochoreniach. Počas ďalšieho roku riešenia projektu sme sa zamerali na optimalizáciu a validáciu analytickej metódy na stanovenie zápalových lipidových mediátorov –

lipoxínov, ktoré sú úzko prepojené s metabolizmom lipidov a reguláciou zápalu v centrálnom nervovom systéme. Na ich kvantifikáciu sme použili vysoko citlivú analytickú metódu založenú na kvapalinovej chromatografii spojenej s hmotnostnou spektrometriou (LC-MS), ktorá umožňuje spoľahlivú identifikáciu a stanovenie nízkych koncentrácií meraných molekúl. Optimalizovaná a validovaná metóda bude následne využitá na analýzu lipoxínov v biologických vzorkách plazmy a mozgového tkaniva.

5.) 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: 5094 €

Dosiahnuté výsledky:
V priebehu roku 2025 sme prevzali vzorky EDTA plazmy od 11 pacientov. Odbery boli vykonávané bezprostredne pred operáciou, po operácii a 24 hodín po operácii. Vzorky boli spracované (centrifugované, alikvotované) a zamrazené do 1 hodiny od odberu. Systematicky boli prevzaté, od pracovníkov klinickej biochémie, (preberanie je evidované na pracovisku klinickej biochémie, dátum, čas a podpis preberajúceho). Vzorky sú uskladnené v Biobanke NIU-SAV (-80 stupňov celzia) a počty a objemy sú evidované v databáze kryobanky NIU – SAV. Definitívne meranie parametrov poškodenia mozgu bude vykonané pred ukončením projektu, aby bola zabezpečená čo najnižšia variabilita merania. Vo vzorkách budeme sledovať zmeny na úrovni metabolitov a proteínov.

6.) 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:	Karoline Pichlerová
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: 10565 €

Dosiahnuté výsledky:
V predchádzajúcom projekte bolo pomocou skríningu cDNA knižnice s kvasinkovým dvojhybridným systémom objavených 17 nových tau interakčných partnerov. Na dodatočnú in vitro validáciu bolo, pomocou ko-imunoprecipitácie a ko-lokalizácie, testovaných 7 proteínov. Z týchto 7 proteínov boli 3 validované ko-lokalizáciou a 6 bolo validovaných ko-immunoprecipitáciou. Z pohľadu funkcie proteínov, boli najzaujímavejšie proteíny produkované v CHO bunkách. K danému momentu sa podarilo naprodukovať a vyčistiť 5 proteínov. Trom vyčisteným proteínom bol

odštiepený His-Tag, a s týmito proteínmi prebiehajú interakčné experimenty (povrchová plazmónová rezonancia a izotermálna titračná kalorimetria). Po interakčných experimentoch sa plánujú vykonať cross-linkové experimenty pre objavenie konkrétnych interakčných rezíduí.

7.) Identifikácia príčiny meningoencefalitídy psov neznámej etiológie s využitím omics technológií *(Identification of canine meningoencephalitis of unknown etiology (MUE) employing omics approaches)*

Zodpovedný riešiteľ:	Tomáš Smolek
Trvanie projektu:	1.1.2025 / 31.12.2027
Evidenčné číslo projektu:	2/0155/25
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	VEGA: 11585 €

Dosiahnuté výsledky:
Na začiatku riešenia projektu sme pripravili vzorky cerebrospinálneho moku (CSF) u psov na plánované analýzy. Následne sme vzorky CSF u psov s vybranými diagnózami (SRMA-meningitída reagujúca na liečbu steroidmi, CDS – kognitívny dysfunkčný syndróm, Myelitída lokalizovaná na miechu, MUA- meningoencefalomyelitída neznámeho pôvodu viazaná na mozog) analyzovali pomocou hmotnostnej spektrometrie (MS). Prvotné analýzy MS ukázali signifikantné rozdiely v niekoľkých proteínoch zodpovedných hlavne za zápalové reakcie a regeneráciu tkaniva pri porovnaní MUA versus Myelitída (APOM, FGL2, SCRG1, PSAP, MICAL2, TRIP11, FN1, GOLM1, GHSR, B4GALT1) a pri porovnaní SRMA a CDS (Metalloproteinase inhibitor 1, Metalloproteinase inhibitor 2, Collagen alpha-2. Complement C1s, Neuronal adhesion molecule 1). Z dosiahnutých výsledkov vyplýva, že diagnózy MUA a Myelitída sa nelíšia len anatomickou lokalizáciu lézií ale aj na molekulárnej úrovni reflektujú na rozdiely v zápalových a reparačných mechanizmoch.
Samozrejme v analýzach plánujeme pokračovať aj naďalej. Dosiahnuté výsledky sa pripravujú do publikačnej podoby.

8.) Vplyv špecifickej štruktúry filamentov tau proteínu na indukciu periférnych biomarkerov pre diagnostiku chronickej traumatickej encefalopátie a ďalších tauopátií *(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: 11111 €

Dosiahnuté výsledky:
Venovali sme sa analýze tau biomarkerov pri viacnásobných úderoch hlavy a analýze amyloidných segmentov tau proteínu in vitro.

ČENTE, Martin - PERACKOVA, Janka - PERACEK, Pavol** - MAJDAN, Marek - TOTH, I. - MIKULIC, Martin - HANES, Jozef - SPAJDEL, Marian - SIVCO, Patrik - ŠKRABANOVÁ, Michaela - ŠKRABANA, Rostislav - JURIŠICA, Igor - FILIPČÍK, Peter*. Changes in peripheral blood and cognitive performance after nonconcussive head impacts in elite female soccer players. In Communications medicine : medvik, 2025, vol. 5, no. 1, art. no. 417.

DURGALA, Andrej - HORVÁTH, Marián - BELLO, Oskar Daniel - ŠKRABANOVÁ, Michaela - ČENTE, Martin - FILIPČÍK, Peter. Úloha exozómov vo výskume traumatického poškodenia mozgu: Biomarkery a terapeutické možnosti. In Študentská vedecká konferencia PriF UK 2025 : zborník recenzovaných príspevkov. Mária Chovancová, Táňa Sebechlebská, Dominik Kostoláni, Dominik Juračka, Dominik Šmida (eds.). 1. vyd. - Bratislava : Univerzita Komenského, 2025, s. 108-112,. ISBN 978-80-223-6080-7.

HORVÁTH, Marián* - ŠKRABANOVÁ, Michaela* - ČENTE, Martin - HANES, Jozef - KEBIS, A. - ZORAD, Štefan - FILIPČÍK, Peter**. Endurance exercise attenuates plasma level of neurofilament light chain and prevents body weight loss in a rat model of tauopathy. In Physiological Research, 2025, vol. 74, no. 6, p. 1021-1026. (2024: 2 - IF, Q3 - JCR, 0.676 - SJR, Q2 - SJR). ISSN 0862-8408. Dostupné na: https://doi.org/10.33549/physiolres.935665

MARTONOVÁ, Katarína** - MEŠKOVÁ, Klaudia - CEHLÁR, Ondrej - TOMKOVÁ, Katarína - ŠKRABANA, Rostislav. STRUCTURE MOTIFS IN DISORDERED PROTEIN TAU STABILIZED BY MONOCLONAL ANTIBODIES SPECIFIC TO TAU FILAMENT CORE. In ML4NGP : 3rd Meeting on Machine Learning and Non-Globular Proteins, 20-23, May 2025, Vilnius, Lithuania. 1. vyd. - [S.l.:s.n.], 2025, p. 61, P36.

NJEMOGA, Stefana - BEDNÁRIKOVÁ, Zuzana - BARRERA, Exequiel - GAŽOVÁ, Zuzana - CEHLÁR, Ondrej. Mapping of aggregation-prone sequences within tau protein. In ML4NGP : 3rd Meeting on Machine Learning and Non-Globular Proteins, 20-23, May 2025, Vilnius, Lithuania. 1. vyd. - [S.l.:s.n.], 2025, p. 48, P 20.

Programy: APVV

9.) 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: 34750 €

Dosiahnuté výsledky:
V roku 2025 pokračovali výskumné aktivity na zistenie celoživotnej prevalencie TBI v populácii SR, čo je jedným z cieľov projektu. V rámci riešenia projektu bola vypracovaná a schválená slovenská verzia medzinárodného dotazníka pre identifikáciu otrasov mozgu a v súčasnosti prebieha aktivita na zistenie celoživotnej prevalencie TBI v populácii SR. Okrem toho boli v

rámci projektu ukončené molekulárne analýzy zamerané na detekciu markerov poškodenia mozgu vo vzorkách profesionálnych športovcov po nárazoch do hlavy. Porovnanie na úrovni biomarkerov a kognitívnych parametrov ukázalo zhoršenie kognitívnych schopností u žien po nárazoch do hlavy v porovnaní s mužmi a rozdielny profil cirkulujúcich tau markerov, čo naznačuje odlišnú citlivosť na tieto podnety medzi pohlaviami. Dosiahnuté výsledky boli publikované v odbornom časopise (Cente et al. 2025).

Cente M, Perackova J, Peracek P, Majdan M, Toth I, Mikulic M, Hanes J, Spajdel M, Sivco P, Skrabanova M, Skrabana R, Jurisica I, Filipcik P. Changes in peripheral blood and cognitive performance after nonconcussive head impacts in elite female soccer players. Commun Med (Lond). 2025 Oct 7;5(1):417. doi: 10.1038/s43856-025-01127-8. PMID: 41057610

10.) Nové biomarkery a signálne dráhy otrasov mozgu a miernych opakovaných nárazov hlavy *(Novel biomarkers and signaling pathways in concussion and subconcussive repetitive head impacts)*

Zodpovedný riešiteľ:	Martin Čente
Trvanie projektu:	1.9.2025 / 31.8.2028
Evidenčné číslo projektu:	APVV-24-0530
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 30941 €

Dosiahnuté výsledky:

Traumatické poškodenie mozgu (TBI) predstavuje významný rizikový faktor pre vznik neurodegeneratívnych ochorení, ako je napr. Alzheimerova alebo Parkinsonova choroba, ktoré sa môžu indukovať v dôsledku longitudinálnych následkov otrasov mozgu alebo opakujúcich sa podprahových nárazov do hlavy (RHI). Jedným z kritických problémov v oblasti TBI je nedostatok spoľahlivých biomarkerov, ktoré by sa dali použiť na monitorovanie klinických následkov po poranení mozgu. Preto existuje naliehavá potreba identifikovať nové periférne biomarkery a signálne dráhy, ktoré by umožnili špecifické a citlivé hodnotenie stavu po TBI pomocou štandardizovaných a ľahko dostupných metód. Cieľom projektu je vytvoriť biobanku dobre definovaných skupín pacientov s TBI a modelovať RHI (napr. pri hlavičkovaní lopty) na objavenie a validáciu nových markerov poranenia mozgu/nárazov hlavy. Vytvorená databáza bude obsahovať kompletné anamnestické, biomarkerové a neurozobrazovacie údaje, ktoré sa budú hodnotiť komplexne. Navrhujeme inovatívnu výskumnú stratégiu, ktorá kombinuje viaceré najmodernejšie transkriptomické, proteomické a metabolomické prístupy s overenými bioinformatickými predikčnými modelmi a nástrojmi na spracovanie údajov. Komplexný prístup riešenia problematiky umožní identifikovať a overiť nové kandidátne biomarkery a signálne molekulové dráhy indukované pri TBI, ktoré môžu byť potenciálne použiteľné na diagnostiku a prognostiku pacientov po TBI v budúcnosti.

11.) Profilovanie miRNA pomocou 3D tumoroidných modelov: efektívna platforma pre cielenú terapiu nádorov mliečnej žľazy u psov *(MiRNA profiling in 3D tumoroid models: a powerful platform for targeted mammary cancer therapy in dogs)*

Zodpovedný riešiteľ:	Martin Čente
Trvanie projektu:	1.9.2025 / 31.8.2029
Evidenčné číslo projektu:	APVV-24-0026
Organizácia je	nie

koordinátorom projektu:	
Koordinátor:	Univerzita veterinárskeho lekárstva a farmácie v Košiciach
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 8356 €

Dosiahnuté výsledky:
Nádory mliečnej žľazy (CMT) sú jedným z najčastejších karcinómov u psov. Napriek pokroku vo veterinárnej starostlivosti pretrvávajú výzvy pri dosahovaní včasnej diagnózy a zavádzaní účinnej systematickej liečby. Z diagnostického hľadiska predstavujú malé nekódujúce RNA (mikroRNA, miRNA), zapojené do génovej regulácie, atraktívnu skupinu biomarkerov. Včasná klinická diagnostika CMT so špecifickými biomarkermi a vývoj nádorovo špecifickej cielenej liečby prostredníctvom 3D modelovania tumoroidov ponúka možnosť pre zlepšenie klinických výsledkov onkologických pacientov. Cieľom projektu je identifikácia a analýza zmien v hladinách expresie miRNA in situ (v nádoroch mliečnej žľazy) a v 3D modelových systémoch odvodených z CMT. Kombinácia profilovania miRNA s testovaním nových molekúl založených na pyrolidínoch v tumoroidoch špecifických pre pacienta môže zlepšiť personalizovanú liečbu psov s nádorom mliečnej žľazy, čo môže potenciálne viesť k efektívnejšej terapii.

12.) 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: 40969 €

Dosiahnuté výsledky:
V roku 2025 sme pokračovali v plnení cieľov projektu súčasne na viacerých úrovniach. Zorganizovali sme niekoľko osobných stretnutí veteránov kontaktných športov (bývalých futbalistov vrcholových športových klubov), od ktorých sme zozbierali anamnestické údaje a väčšine z nich sme odobrali niekoľko mililitrov periférnej krvi. Anamnestické údaje sú postupne zaraďované do databanky, a z periférnej krvi sme izolovali plazmu, ktorá je uchovávaná v biobanke v priestoroch NIU-SAV. Popri týchto aktivitách sme modelovali štruktúry špecificky skrátených tau proteínov (dGAE), ktoré sme používali v “in vitro” podmienkach v bunkových experimentoch zameraných na analýzu ľudských neuroblastómových buniek SH-SY5Y. Optimalizovali sme efektivitu fibrilizácie a agregácie prokaryotického a purifikovaného dGAE, a tento proces sme testovali pomocou štandardných biochemických analýz. V ďalších experimentoch sme ľudské bunky diferencovali a ovplyvňovali agregovanými formami dGAE. Zistili sme, že po pridaní agregátov dochádza k efektívnemu vychytávaniu "CTE-špecifických" štruktúr tau z kultivačného prostredia. Následne sme sa zamerali na testovanie ich účinkov na životnosť diferencovaných ľudských neuroblastómov. Prekvapujúcim výsledkom je zistenie, že CTE - špecifické filamenty neznižujú hladiny ATP v bunkách, a je pravdepodobné, že za daných podmienok sú tieto agregáty netoxické.

13.) 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: 45592 €

Dosiahnuté výsledky:
Vyvinuli sme metodiku na identifikáciu nových systémov na transport do mozgu, ktoré sa môžu použiť na vývoj nových vektorov schopných transportovať farmaceutiká alebo biologické látky do mozgu. Tieto vektory by sa teda mohli použiť buď ako lieky na liečbu neurodegeneratívnych ochorení, alebo ako zobrazovacie molekuly na monitorovanie patologických zmien v mozgoch pacientov trpiacich neurodegeneratívnymi ochoreniami.
Naklonovali sme tri potkanie receptory, LRP8, angulín 1 a angulín 3, a exprimovali sme ich v cicavčej bunkovej línii (CHO). Po purifikácii a charakterizácii sme ich použili na imunizáciu myší. Myši s pozitívnou imunitnou odpoveďou boli použité na generovanie hybridómových bunkových línií alebo na generovanie rekombinantných knižníc, ktoré je možné využiť na identifikáciu protilátok rekombinantnými technológiami. Identifikovali sme protilátku špecificky rozpoznávajúcu potkaní receptor LRP8. Okrem toho sme vyvinuli aj alternatívnu stratégiu na generovanie protilátok špecifických pre potkanie receptory: naklonovali a exprimovali sme receptory Haplochromis (ryby so 60 % identitou s potkanmi) a použili sme ich na imunizáciu myší. Myši imunizované Haplochromis angulínom 3 preukázali dobrú imunitnú odpoveď a použili sme ich na generovanie hybridómových bunkových línií alebo na generovanie rekombinantných knižníc. Pomocou hybridómovej technológie sme získali 3 IgG protilátky špecifické pre Haplochromis angulín 3. Okrem toho sme vytvorili in vitro systém hematoencefalickej bariéry (HEB) na testovanie látok. Z protilátky LRP8 sme pripravili menšie fragmenty (Fab a scFv) a použili ich na testovanie potenciálnej penetrácie cez HEB in vitro. Zistili sme, že protilátka LRP8 bola schopná preniknúť cez HEB, hoci jej penetrácia bola relatívne nízka.

14.) 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: 23238 €

Dosiahnuté výsledky:
Projekt má za úlohu skúmať vzťah medzi psychologickou a biologickou imunitou v zdravej populácii na vzorke 587 dobrovoľníkov z Bratislavského, Banskobystrického a Košického kraja a na špecifickej skupine pacientov liečených zo závislosti na alkohole (159 dobrovoľníkov).

Výsledky riešenia projektu by mohli odhaliť, do akej miery môže psychologický status jedinca ovplyvniť jeho imunitu. V skupine zdravých dobrovoľníkov sme stav biologickej imunity sledovali na základe analýzy 17 prozápalových a protizápalových cytokínov. Získané cytokínové profily sme následne porovnávali so stavom psychologickej imunity. Predbežné výsledky zdravej populácie naznačili rovnováhu medzi biologickou a psychologickou imunitou. V skupine dobrovoľníkov, ktorí sa podrobili liečbe závislosti na alkohole sme odoberali krv pred terapiou a po terapii. Po multiplexovej analýze hladín cytokínov sme pokračovali v štatistickom spracovaní získaných cytokínových profilov jednotlivcov pred a po terapeutickej intervencii. Následne budeme sledovať do akej miery môže terapia ovplyvniť hladiny indukovaných cytokínov a tým aj biologickú imunitu.

15.) 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 imunity)*

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: 37335 €

Dosiahnuté výsledky:
Jedným z cieľov projektu bolo z dlhodobého hľadiska monitorovať vývoj imunitnej odpovede indukovanej vírusom SARS-CoV-2 a očkovaním u dospelej populácie. Táto časť štúdie zahŕňala 433 jedincov testovaných v rôznych časových intervaloch od infekcie alebo vakcinácie (PfizerBioNTech, Moderna, AstraZeneca). Sledovali sme kinetiku protilátok, ktoré sa viažu na vírusové proteíny a kinetiku protilátok, ktoré vírus neutralizujú. Zároveň sme analyzovali, či dochádza k indukcii špecifických CD4 T-buniek. Zistili sme, že všetky vakcíny boli schopné indukovať imunitnú odpoveď, avšak miera imunogenicity vakcín bola rôzna. Najvyššie hladiny imunity indukovala vakcína spoločnosti Moderna, najnižšie hladiny vakcína AstraZeneca. Imunitná odpoveď indukovaná vírusovou infekciou bola porovnateľná s imunitou indukovanou vakcínou AstraZeneca. Ďalším z cieľov bolo testovanie získanej imunity u detských pacientov s poruchami imunity. Zaujímalo nás, do akej miery primárne a sekundárne imunodeficiencie ovplyvňujú imunitnú odpoveď vyvolanú očkovaním mRNA vakcínou a infekciou SARS-CoV-2. Kohorta zahŕňala 102 pacientov. Naše výsledky ukázali široké spektrum protilátkami sprostredkovanej imunity indukovanej v stave imunodeficiencie, čo naznačuje potenciál imunodeficientných pacientov účinne sa chrániť nielen pred infekciou SARS-CoV-2, ale aj pred inými patogénmi. Pacienti s deficitom tvorby protilátok sú schopní prekonať infekciu SARS-CoV-2 aktiváciou imunity sprostredkovanej T-bunkami.

16.) 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: 35116 €

Dosiahnuté výsledky:
Počas posledného roku riešenia projektu sme optimalizovali separácie modelových zmesí izoforiem tau proteínov s využitím chromatografie na obrátených fázach. Experimenty s chromatografiou na obrátených fázach ukázali, že jedinou úspešne separovanou kombináciou bola zmes izoforiem Tau37 a K4. Na pracovisku sme zaviedli experimentálnu metódu na meranie difúznych koeficientov proteínov (IOI). V rámci programu ERASMUS strávila študentka Krutika Khiratkar tri mesiace v laboratóriu Dr. Hrabetovej v New Yorku, kde sa oboznámila s metodikou merania difúznych parametrov v agarózových géloch a mozgových rezoch. Pomocou IOI metódy analyzovala difúzne koeficienty rekombinantných tau proteínov. Výsledky ukázali, že v porovnaní s dextránmi a IgG má tau proteín oveľa nižšiu difúziu v mozgovom tkanive pravdepodobne v dôsledku silnejších interakcií s komponentami extracelulárnej matrice.

17.) Mapovanie glykómu a glykozylácie proteínov spojených s Alzheimerovou chorobu
(Mapping the Glycome and Glycosylated Proteins in Alzheimer's disease)

Zodpovedný riešiteľ:	Branislav Kováčech
Trvanie projektu:	1.9.2025 / 31.8.2028
Evidenčné číslo projektu:	APVV-24-0529
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Chemický ústav SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 18229 €

Dosiahnuté výsledky:
Projekt je zameraný na hľadanie nových biomarkerov pre Alzheimerovu chorobu, ktoré odzrkadľujú mieru glykozylácie proteínu tau – hybná sila neurodegenerácie, a apolipoproteínu E – rizikový faktor pre AD. Špecifická glykozylácia patrí medzi patologické posttranslačné modifikácie, ktoré menia štruktúru a funkčné vlastnosti tau proteínu. Meranie glykozylácie je technologicky náročnejšie v porovnaní so sledovaním hyperfosforylácie. V projekte využívame dlhodobé skúsenosti v oblasti výskumu glykozylácie proteínov odborníkov z Chemického ústavu SAV. NiU SAV poskytuje technológiu ultresenzitívnej ELISA metódy, ktorá umožní kvantifikáciu glykozylovaných foriem tau proteínu v biologických vzorkách (CSF, plazma). V prvom roku riešenia sme sa zamerali na prípravu štandardov a výber vhodných vzoriek potrebných pre kvantifikáciu celkovej glykozylácie v CSF pacientov s Alzheimerovou chorobou.

18.) 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: 3018 €

Dosiahnuté výsledky:
V roku 2025 sme sa zamerali na získanie štruktúry komplexov medzi rôznymi fragmentami Spike proteínu a ľudským rekombinantným laktoferínom. Kryštály komplexov laktoferínu a RBD domény spike proteínu získané na Ústave molekulárnej biológie sme pripravili na 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 dvoch meracích dňoch a zozbierali sme spolu viac ako sedem kompletných difrakčných setov, s rozlíšením až 2,0 Angströmov. Aj keď sa nám nepodarilo namerať difrakčné dáta komplexov, získali sme štruktúru ľudského laktoferínu s dosiaľ najvyšším rozlíšením. Do práce na kryštalizácii a?určovaní štruktúry bol zapojený jeden PhD študent z UMB SAV. Potvrdili sme glykozylačný vzorec tejto formy, ktorá?obsahuje nezvyčajne dlhý polysacharidový reťazec a identifikovali sme glykány aj na ďalších dvoch glykozylačných miestach. Výsledky projektu boli prezentované na konferencii.

BABULIC, Patrik - ONDROVIČOVÁ, Gabriela - PEVALA, Vladimír - BAUER, Jacob - ŠKRABANA, Rostislav - LEKSA, Vladimír. Laktoferín ako spojenec proti nákaze SARS-CoV-2. In Dni mladých biológov : zborník príspevkov.12. ročník. - Bratislava : Centrum biovied Slovenská akadémia vied, v.v.i - Ústav biochémie a genetiky živočíchov, 2025, p. 10-11. ISBN 978-80-974246-7-1. (Dni mladých biológov.)

19.) 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: 75173 €

Dosiahnuté výsledky:
Hlavným cieľom projektu je komplexné skúmanie úlohy lipidového metabolizmu a špecializovaných lipidových mediátorov pri regulácii zápalových procesov v CNS, ako aj posúdenie ich vplyvu na vzájomnú komunikáciu medzi gliálnymi a neurónovými bunkami, ktorá predstavuje zásadný faktor v patogenéze neurodegeneratívnych ochorení.
V ďalšom roku riešenia projektu sme sa zamerali na optimalizáciu a validáciu analytickej metódy určenej na stanovenie zápalových mediátorov – lipoxínov a kynurenínov, ktoré sú úzko späté s metabolizmom lipidov a reguláciou zápalu. Na ich kvantitatívne stanovenie bola použitá vysoko citlivá analytická metóda založená na kvapalinovej chromatografii spojenej s hmotnostnou spektrometriou (LC-MS), umožňujúca spoľahlivú identifikáciu a presné meranie aj nízkych koncentrácií analyzovaných molekúl. Optimalizovaná a validovaná metodika bola následne aplikovaná na analýzu lipoxínov a kynurenínov v biologických vzorkách plazmy a mozgového tkaniva. Zmeny metabolitov budú korelované s progresiou neurofibrilárnej patológie a zápalovými zmenami.

20.) 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: 8249 €

Dosiahnuté výsledky:
V poslednom roku riešenia projektu boli finalizované analýzy doteraz získaného materiálu a dát. Prebehli pokusy s elektrofyziologickou lokalizáciou dopamínových neurónov vo ventrálnej tegmentálnej oblasti (VTA) mozgu spevavcov a optimalizácie optogenetickej manipulácie VTA pomocou fluorescenčne označených vírusových vektorov. Na základe uskutočnených experimentov s ovplyvnením neurogenézy sa ukazuje, že niektoré farmaká stimulujú proliferáciu buniek vo ventrikulárnej zóne. Dosiahnuté výsledky naznačujú, že nové neuróny môžu umožňovať spev variabilnejšej sekvencie slabík piesne. Sledovanie zmien po poškodení striatálnej oblasti mozgu ukázalo, že dochádza k dlhotrvajúcim zmenám v plasticite a mechanizmoch neuronálnej ochrany.

21.) 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 koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 49844 €

Dosiahnuté výsledky:
V roku 2025 sme pri riešení projektu nadviazali na predchádzajúce aktivity a pokračovali sme v naplňovaní cieľov podľa stanoveného plánu. Zozbierané vzorky čreva a mozgu myšacích modelov pre tauopátie sme podrobili jednak metagenomickému sekvenovaniu- NGS „shot-gun“ a histologickej analýze. Konkrétne sme analyzovali vzorky mozgu na prítomnosť tau patológie u transgénnych modelov (tg) v porovnaní s netransgénnymi „wild type“ (wt) modelmi, a takisto sme porovnávali zloženie mikrobiómu u transgénnych modelov versus wild type modelom. Navyše, našou snahou je aj zistiť rozdiely medzi pohlaviami na sledovaných úrovniach u jednotlivých modelov, čo by nám umožnilo v budúcnosti efektívnejšie plánovať ďalšie experimenty vzhľadom na výber pohlavia.

Prvotné výsledky z NGS sekvenovania analýzy mikrobiómu poukazujú na veľmi nízku relatívnu abundanciu a diverzitu v rámci skupín rôznych mikroorganizmov (archea, huby, vírusy) medzi tg a wt modelmi a nevýznamné štatistické rozdiely. Analýzy na úrovni bakteriálneho zloženia stále prebiehajú a vyhodnocujú sa. V ďalšom roku by sme chceli začať testovanie vhodnými doplnkami stravy, probiotikami, prebiotikami prípadne zmenou prostredia, čo by mohlo modulovať mikrobióm a následne mať vplyv na periférny imunitný systém a tau patológiu. Dosiahnuté výsledky plánujeme pripraviť do publikačnej podoby.

22.) 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: 46458 €

Dosiahnuté výsledky:
Projekt je zameraný na sledovanie vplyvu zmien extracelulárnej matrice pri vzniku a šírení neurofibrilárnej patológie. Extracelulárna matrica a perineuronálne siete predstavujú zložitý systém mimobunkového priestoru, ktorý sa podieľa na mnohých fyziologických ale aj patologických procesoch odohrávajúcich sa v ľudskom mozgu. Pre tieto účely sme využili unikátny animálny model, ktorý je schopný tvoriť neurofibrilárnu patológiu v mozgu. V roku 2025 sme realizovali prvý experiment, kde sme podávali patologický tau proteín do mozgu transgénnych zvierat a zároveň farmakologicky modulovali hustotu extracelulárnej matrice. V prvej fáze sme sa zamerali na zavedenie novej metodológie kvantifikácie efektu liečby na kyselinu hyaluronovú. Klasická metóda s využitím Wisteria floribunda sa ukázala ako nedostatočne špecifická, a preto sme sa sústredili v druhom kole na analýzu proteoglykánov – HSPG. Zaviedli sme technológiu publikovanú v časopise Nature, ktoré je určená na priestorovú kvantifikáciu extracelulárnej siete. Na záver sme stanovili mieru terapeutického účinku na zmenšenie komplexnosti extracelulárnej matrice. V nasledujúcej fáze sa budeme sústrediť na priamy vplyv na neurofibrilárnu patológiu.

23.) 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: 26721 €

Dosiahnuté výsledky:
Pokračovali sme v optimalizovaní PEI transfekcie bunkových línií CHO a HEK293, získané

výsledky sú spracovávané do publikácie. Priebežne sme produkovali Fab formy protilátok z centrálnej a C-koncovej oblasti tau pre kryštalizačné experimenty a pre NMR experimenty a vyčistili sme ich. Vyvinuli sme metódu čistenia Fab DC190. Absolvovali sme merania difrakčných vlastností kryštálov na beamline P13 v DESY EMBL Hamburg, v rámci spoločného konzorcia makromolekulárnych kryštalografických pracovísk SR ako jeho líder. Flexibilita proteínov je dôležitá aj pre proteíny s globulárnymi doménami ako sú laktoferín a 14-3-3 proteín, ktoré sú flexibilné na úrovni terciárnej štruktúry kompozície domén. Pripravujeme manuskripty opisujúce spresnené štruktúry 14-3-3 gama a laktoferínu, ktoré plánujeme podať v roku 2025. Na spolupracujúcom pracovisku v NMR Centre Jozefa Dadoka, CEITEC, Brno boli vykonané merania zamerané na charakterizáciu konformačnej dynamiky torzných uhlov peptidov a ich komplexov s protilátkami DC11 a MN423. Výpočtový čas na superpočítači DEVANA, sme využili na simuláciu krátkych tau peptidov s ohľadom na prítomnosť malých štruktúrovaných motívov a na tvorbu oligomérov pre prvé štádiá agregácie tau. Pokračovali sme v štúdiu fibrilácie tau proteínu a jeho inhibície kandidátovými protilátkami. Fibrilované tau sme testovali na toxicitu v línii SH-SY5Y. Výsledky in silico experimentov sme analyzovali bioinformatickými nástrojmi s ohľadom na stabilitu a zastúpenie malých motívov. Jednotlivé motívy sme hľadali v známych štruktúrach v PDB a sformulovali hypotézy o ich význame pri predikovaní štruktúrnych ansámblov neusporiadaných proteínov pomocou nástrojov strojového učenia a umelej inteligencie.

24.) Mitochondriálna transplantácia, inovatívna stratégia terapie Alzheimerovej choroby *(Mitochondrial transplantation, an inovative 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: 33000 €

Dosiahnuté výsledky:
Mitochondriálna transplantácia patrí medzi atraktívne metódy terapie závažných ochorení mozgu. Mitochondrie sú zraniteľné elementy ľudských nervových buniek, ktoré sú výrazne poškodzované v procese neurodegenerácie v Alzheimerovej chorobe. V roku 2025 sme sa zamerali na priamy efekt neurofibrilárnej patológie na poškodenie mitochondrií v animálnom modeli pre Alzheimerovu chorobu. Adaptovali sme metódu izolácie mitochondrií z mozgového tkaniva a následne sme realizovali rozsiahlu proteomickú analýzu bielkovín, ktoré boli poškodené počas neurodegenerácie. Táto proteomická štúdia ukazuje, že tau patológia v mozgovom kmeni potkanieho modelu sporadickej Alzheimerovej choroby spôsobuje výraznú mitochondriálnu dysfunkciu, konkrétne posun v preferencii energetického substrátu neurónov z glukózy na lipidy. Tento metabolický prechod, spojený s akumuláciou a nútenou degradáciou lipidov, môže viesť k lipotoxicite, lipidovej peroxidácii a oxidačnému stresu, ktoré sú známe ako kľúčové mechanizmy vzniku a progresie Alzheimerovej choroby. Zároveň sme otestovali metódu aplikácie izolovaných mitochondrií do mozgu transgénnych zvierat a testovali ich viabilitu. Výsledkom našich aktivít je publikácia pripravená na podanie do vedeckého časopisu.

25.) 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: 28396 €

Dosiahnuté výsledky:
Najdôležitejším výsledkom projektu je zostavenie dvoch neuro-gliových bunkových platforiem modelujúcich patologické procesy v AD. Ľudský model pre šírenie tau patológie, zložený z ľudských neurónov generovaných z geneticky modifikovanej progenitorovej línie ReNCX/hNGN2 a z mikroglií diferencovaných z periférnych monocytov (PBMC), umožňuje testovať látky s terapeutickým potenciálom inhibovať šírenie tau. V tomto modeli sme úspešne otestovali ani-tau protilátku AX004, ktorá inhibovala prestup patologického tau z neurónu na neurón a zároveň potencovala spracovanie patologického tau mikrogliou. Druhý bunkový systém, zložený s myšacích mikroglií, astrocytov a neurónov, modelujúci interakciu tau patológie a neurozápalu, umožňuje testovať látky s potenciálom inhibovať tau fosforyláciu. Model umožnil identifikovanie komunikačných dráh CX3CL1-CX3CR1 and CD47-SIRPalfa medzi postihnutými neurónmi a gliovými bunkami v podmienkach zápalu.
•Palova, D., et al., (2021). The engagement of microglia in tau-targeted immunotherapy in Alzheimer's disease. Gen Physiol Biophys. 40(6), 463-478.
•Capuz et al., (2023). Astrocytes express aberrant immunoglobulins as putative gatekeeper of astrocytes to neuronal progenitor conversion. In Cell Death & Disease, 2023, vol. 14, iss. 4, art. no. 237. (2022: 9 - IF, Q1 - JCR, 2.188 - SJR, Q1 - SJR). https://pubmed.ncbi.nlm.nih.gov/37015912/
•Kitoka K., et al (2024). dGAE(297-391) Tau Fragment Promotes Formation of Chronic Traumatic Encephalopathy-Like Tau Filaments. Angew Chem Int Ed Engl. 2024 26:e202407821. doi: 10.1002/anie.202407821.
•Majerova P, Zilkova M, Bhide K, Kovac A. Truncated tau modulates neuron-glia signaling through CX3CL1-CX3CR1 and CD47-SIRP-alfa pathways. Research Square August 2024, DOI: 10.21203/rs.3.rs-4868529/v1

Programy: Iné projekty

26.) Štipendiá 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 koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	Plán Obnovy: 39600 €

Dosiahnuté výsledky:
V rámci projektu pokračujeme v súlade so stanoveným plánom. Doc. Natália Hryntsova sa v projekte významne podieľa predovšetkým na postmortálnej charakterizácii mozgového tkaniva pacientov s rôznymi formami neurodegeneratívnych ochorení a demencií. Táto postmortálna

charakterizácia zahŕňa kvantitatívne aj kvalitatívne hodnotenie patologických zmien na histologickej a mikroskopickej úrovni vrátane fotodokumentácie, na ktorej sa Natália aktívne podieľa. Na základe tejto analýzy sú pacienti a ich vzorky s výraznou tau patológiou identifikovaní ako vhodní kandidáti na izoláciu sarkozyl-nerozpustného tau proteínu. Získané izoláty tau proteínu sú následne využívané na aplikáciu do animálnych modelov s cieľom skúmať mechanizmy šírenia tau patológie. Natália je zároveň zapojená aj do experimentov zameraných na štúdium faktorov ovplyvňujúcich šírenie tau patológie, ako sú zápalové procesy a nefarmakologické vplyvy, napríklad obohatené prostredie. V rámci projektu sa podieľa aj na imunohistochemických analýzach vzoriek pochádzajúcich z použitých animálnych modelov. Ďalej sa Natália zapája do ďalších projektov, ktoré skúmajú tau patológiu a vplyv na mikrobióm a morfológiu čreva u transgénnych a wild type animálnych modelov.
Dosiahnuté výsledky sa pripravujú do publikačnej podoby a budú publikované v zahraničných vedeckých časopisoch. Natália Hryntsova bola v rámci projektu zapojená do viacerých grantových schém JPND, APVV a VEGA a stala sa súčasťou viacerých vedeckých kolektívov ako spoluriešiteľka.

Programy: Plán obnovy EÚ

27.) 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: 59322 €

Dosiahnuté výsledky:
V rámci projektu boli merané NMR spektrá skráteného tau proteínu tau297-391 dGAE izotopicky značeného 13C a 15N v prítomnosti a bez prítomnosti redukčného činidla DTT a spektrá jeho komplexov s protilátkami DC11 a MN423, pre presné mapovanie epitopov protilátok a zistenie možného príspevku N-koncových oblastí skráteného tau proteínu k väzbe s protilátkami. Ďalej boli NMR chemické posuny namerané so skráteným tau proteínom tau321-391 uložené do databázy pre biologickú magnetickú rezonanciu BMRB (doi:10.13018/BMR53400).
Ďalej boli počítačovo simulované tau peptidy tau321-343 a tau326-343 v reprezentácii all-atom a tau321-391 a tau326-391 v reprezentácii coarse-grained a ich diméry pre zistenie odlišností, ktoré by mohli vysvetliť rozdielne agregačné vlastnosti týchto skrátených tau peptidov, pretože tau321-391 tvorí agregáty a oligoméry in vitro a tau326-391 ich nevytvára. Taktiež boli in vitro pripravené oligoméry tvorené tau proteínom tau297-391 dGAE charakterizované metódou hmotnostnej spektrometrie v spojení s iónovou mobilitou.
Taktiež boli merané difrakčné dáta pre kryštály komplexov protilátky DC11 s tau peptidmi.

28.) 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:	1538623,27 €

Dosiahnuté výsledky:
Globálne otepľovanie zvyšuje celosvetovo frekvenciu prírodných katastrof, ako sú ničivé požiare a búrky, a priamo vplýva na výskyt ochorení súvisiacich s teplom. V druhej časti riešenia projektu sme v našom laboratóriu analyzovali vzorky plazmy a mozgového tkaniva z animálneho modelu úpalu. Pomocou moderných -omických postupov sme vytvorili mapu proteínového a lipidového profilu u zvierat v akútnej fáze tepelného šoku. Výsledky boli prezentované na viacerých odborných podujatiach.

29.) 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 koordinátorom projektu:	áno
Koordinátor:	Neuroimunologický ústav SAV, v. v. i.
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	166655,64 €

Dosiahnuté výsledky:
V rámci riešenia Matching projektu 09I01-03-V04-00039 sme testovali izoláciu neuronálnych extracelulárnych vezikúl z plazmy. Súbežne bola zavádzaná metodika RT-QuIC na detekciu agregovaného alfa-synukleínu (alfa-Syn), ktorý predstavuje sľubný biomarker Parkinsonovej choroby a ďalších synukleínopatií. Optimalizovala sa expresia a purifikácia rekombinantného His-tagovaného a natívneho alfa-Syn, ktorý slúži ako substrát v RT-QuIC. Následne boli z vybraných rekombinantných alfa-Syn pripravené PFF, teda fibrilárne agregované formy, ktoré slúžia ako pozitívna kontrola v RT-QuIC. Testovali sme aj variabilitu RT-QuIC reakcie medzi jednotlivými šaržami nami pripravených substrátov a komerčne dostupným substrátom pri rôznych reakčných podmienkach. Priebežné výsledky boli prezentované formou prednášok na odbornom podujatí AD-WORKSHOP No. 5 v Brne a na konferencii "Ako veda formuje modernú kúpeľnú liečbu" v Piešťanoch a boli zdokumentované do interných protokolov. Do Q1 časopisu Molecular Neurobiology (Springer Nature Link) sme podali prehľadový článok „When Proteins Go MAD-Misfolded, Amplified, Detected: Advances in alfa-Synuclein Pathophysiology and RT-QuIC Detection", ktorý prešiel recenzným konaním a bude vydaný začiatkom roka 2026. V rámci riešenia projektu bol tiež zakúpený prístroj Octet R2 (Sartorius), ktorý je pomocou metódy interferometrie biovrstvy schopný vykonávať citlivé a nedeštruktívne kinetické analýzy biomolekúl a jeho použitie sme zaviedli na testovanie kvality alfa-Syn substrátov.

30.) 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:	Plán obnovy EÚ: 87207 €

Dosiahnuté výsledky:
Cieľom projektu bolo obstaranie prístroja určeného na sledovanie lipidových zmien a interakcií proteínov v mozgovom tkanive zvierat. Prístroj bol využívaný v rámci vedeckého projektu APVV Nový pohľad na mechanizmus tauopatií: lipidy ako nástroj na kontrolu procesu neurodegenerácie a neurozápalu. Zmeny v lipidovom profile sledujeme v animálnom modeli tauopatií a zameriavame sa na ich časový vývoj v súvislosti s progresiou neurofibrilárnej patológie. V nasledujúcom období sa jeho využitie zameria aj na analýzu difúzie proteínov v extracelulárnom priestore mozgu, pričom experimenty budú orientované na stanovenie difúznych parametrov tau proteínu a iných proteínov asociovaných s neurodegeneratívnymi ochoreniami.

31.) 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: 59322 €

Dosiahnuté výsledky:
V rámci riešenia projektu bola primárne kreovaná koncepcia komplexnejšieho balíka analytických stratégií pre potreby charakterizácie KLH. Bol realizovaný vývoj analytickej SEC metódy pre potreby charakterizácie a kontrolu kvality KLH. Popri vývoji a validácii SEC-UV metódy bola vyvíjaná aj chromatografická a elektroforetická analytická metóda umožňujúca presnú kvantifikáciu aminokyselín v látkach proteínovej povahy. V prípade chromatografického prístupu bola navrhnutá LC-MS metóda využívajúca proces predkolónovej derivatizácie s použitím derivatizačného činidla AccQ*Tag. Súbežne s LC-MS metodikou bola testovaná taktiež metóda kapilárnej zónovej elektroforézy (CZE) v spojení s tandemovou hmotnostnou spektrometriou (MS/MS), ktorá by umožňovala analýzu aminokyselín v ich natívnej forme, t.j., bez potreby derivatizácie vzorky. Daný prístup je z hľadiska aktuálnych trendov v analytickej chémii zaujímavý predovšetkým z pohľadu ekologickosti a ekonomickosti.

32.) The Advanced Protein Biotechnology Consortium: A Model for Fostering Economic Growth and Mitigating Brain Drain in Eastern Slovakia

Zodpovedný riešiteľ:	Rostislav Škrabana

Trvanie projektu:	1.3.2025 / 31.8.2027
Evidenčné číslo projektu:	09I02-03-V01-00021
Organizácia je koordinátorom projektu:	nie
Koordinátor:	Univerzita Pavla Jozefa Šafárika v Košiciach
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	113265,14 €

Dosiahnuté výsledky:

V prvom roku riešenia projektu sme sa zamerali na produkciu proteínov v eukaryotických expresných systémoch, na stanovenie štruktúry proteínov a ich komplexov v jednotlivých podprojektoch, na biofyzikálnu charakterizáciu proteínov, na školiace a tréningové aktivity a na spracovanie výsledkov do publikácie. Vyprodukovali sme ľudský laktoferín a plasminogen v CHO bunkovej línii, pripravili sme protokol pre ich čistenie, naklonovali sme varianty plasminogenu: Lys-Plg, mini-Plg a mikro-Plg do expresných vektorov, začali sme kryštalizačný skríning dehalogenáz a flavoproteínov, sledovali sme tepelnú denaturáciu stafylokináz a dehalogenáz pomocou dynamického a statického rozptylu svetla. Výsledky tepelnej denaturácie spracúvame do manuskriptu. Zorganizovali sme dve školiace aktivity, predovšetkým pre pracovníkov a študentov nášho ústavu. V neposlednom rade sme finalizovali proces verejného obstarávania výskumnej infraštruktúry z projektu.

Príloha A-3

Publikačná činnosť organizácie

Príloha je generovaná z ARL.

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ADCA03 BHIDE, Katarína - SLÁVIKOVÁ, Monika - TALPAŠOVÁ, Lea - KUCKOVÁ, Katarína - KLEMPA, Boris - TYAGI, Punit - BHIDE, Mangesh**. Comprehensive mapping of the signaling events evoked by SARS-CoV-2 variants delta and omicron in human astrocytes. In Scientific Reports, 2025, vol. 15, no. 1, art. no. 36897. (2024: 3.9 - IF, Q1 - JCR, 0.874 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-025-20851-8

ADCA04 DANG, Steven - LI, Xianwei - DIAO, Liqun - PIGUET, Vincent - CROITORU, David - WITHER, Joan - JURIŠICA, Igor - CHANDRAN, Vinod - EDER, Lihi**. Sex differences in serum proteomic profiles in psoriatic arthritis. In Rheumatology, 2025, vol. 64, iss. 11, p. 5911-5920. (2024: 4.4 - IF, Q1 - JCR, 1.721 - SJR, Q1 - SJR). ISSN 1462-0324. Dostupné na: https://doi.org/10.1093/rheumatology/keaf311

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ADCA06 HORVÁTH, Marián* - ŠKRABANOVÁ, Michaela* - ČENTE, Martin - HANES, Jozef - KEBIS, A. - ZORAD, Štefan - FILIPČÍK, Peter**. Endurance exercise attenuates plasma level of neurofilament light chain and prevents body weight loss in a rat model of tauopathy. In Physiological Research, 2025, vol. 74, no. 6, p. 1021-1026. (2024: 2 - IF, Q3 - JCR, 0.676 - SJR, Q2 - SJR). ISSN 0862-8408. Dostupné na: https://doi.org/10.33549/physiolres.935665

ADCA07 IDKOWIAK, Jakub - DEHAIRS, Jonas - SCHWARZEROVÁ, Jana - OLEŠOVÁ, Dominika - TRUONG, Jacob X. M. - KVASNIČKA, Aleš - HRON, Karel - SWINNEN, Johannes V. - HOLČAPEK, Michal**. Best practices and tools in R and Python for statistical processing and visualization of lipidomics and metabolomics data : Review article. In Nature Communications, 2025, vol. 16, art. no.: 8714, 19 pp. (2024: 15.7 - IF, Q1 - JCR, 4.761 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-025-63751-1

ADCA08 JOZEFIAKOVÁ, Jana - KULKARNI, Amod - DHUMAL, Dinesh - KEVÉLY, Ádám - NOVÁKOVÁ, Eva - KOČI, Kamila - PENG, Ling - KOČI, Juraj - BHIDE, Mangesh**. Nanobody conjugated with dendrimer nanoparticles effectively

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ADCA09 KILIANOVÁ, Zuzana - ČIŽMÁROVÁ, Ivana - ŠPAGLOVÁ, Miroslava - PIEŠŤANSKÝ, Juraj**. Recent Trends in Therapeutic Drug Monitoring of Peptide Antibiotics : Review article. In Journal of Separation Science, 2024, vol. 47, no. 19, art. no.: e202400583, 64 pp. (2023: 2.8 - IF, Q2 - JCR, 0.533 - SJR, Q2 - SJR). ISSN 1615-9306. Dostupné na: https://doi.org/10.1002/jssc.202400583

ADCA10 KUBATKA, Peter** - BOJKOVÁ, Bianka - NOSALOVÁ, Natália - HUNIADI, Mykhailo - SAMUEL, Samson Mathews - SREENESH, Bini - HRKĽOVÁ, G. - KAJO, Karol - HORŇÁK, Slavomír - ČÍŽKOVÁ, Dáša - BUBNOV, Rostyslav - SMOKOVSKI, Ivica - BÜSSELBERG, Dietrich - GOLUBNITSCHAJA, Olga. Targeting the MAPK signaling pathway: implications and prospects of flavonoids in 3P medicine as modulators of cancer cell plasticity and therapeutic resistance in breast cancer patients. In EPMA Journal, 2025, vol. 16, iss 2, p. 437-463. (2024: 5.9 - IF, Q1 - JCR, 1.421 - SJR, Q1 - SJR). ISSN 1878-5085. Dostupné na: https://doi.org/10.1007/s13167-025-00407-6

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ADCA12 LIAO, Zhijie - KUMAR, Kuldeep - KOPAL, Jakub - HUGUET, Guillaume - SACI, Zohra - JEAN-LOUIS, Martineau - PAUSOVA, Zdenka - JURIŠICA, Igor - BEARDEN, Carrie E. - JACQUEMONT, Sebastien** - PAUS, Tomas. Copy number variants and the tangential expansion of the cerebral cortex. In Nature Communications, 2025, vol. 16, iss. 1, art. no. 1697. (2024: 15.7 - IF, Q1 - JCR, 4.761 - SJR, Q1 - SJR). ISSN 2041-1723. Dostupné na: https://doi.org/10.1038/s41467-025-56855-1

ADCA13 MAJEROVÁ, Petra - KHIRATKAR, Krutika - ŠKRABANOVÁ, Michaela - OLEŠOVÁ, Dominika - FIALOVÁ, Ľubica - JAMES, Kevin - VÉGH, Jozef - PIEŠŤANSKÝ, Juraj - KOVÁČ, Andrej**. A physiologically relevant blood-cerebrospinal fluid barrier model to study the permeability of neurodegenerative biomarkers. In European Journal of Cell Biology, 2025, vol. 104, no. 4, art. no. 151517. (2024: 4.3 - IF, Q2 - JCR, 1.491 - SJR, Q1 - SJR). ISSN 0171-9335. Dostupné na: https://doi.org/10.1016/j.ejcb.2025.151517

ADCA14 MARCINČÁKOVÁ, Dana - HUDÁKOVÁ, Nikola** - MIŁEK, Michal - KOLESÁROVÁ, Mária - DZUGAN, Małgorzata - ČÍŽKOVÁ, Dáša. Evaluation of the Antioxidant Properties and Biological Effects of a Novel Combined Barberry Root–Propolis Extract on HEK293T Cells. In Pharmaceuticals, 2025, vol. 18, art. no. 27, 15 pp. (2024: 4.8 - IF, Q1 - JCR, 1.019 - SJR, Q1 - SJR). ISSN 1424-8247. Dostupné na: https://doi.org/10.3390/ph18010027

ADCA15 MARCINÍKOVÁ, Andrea - HORVÁTH, Csaba - JARABICOVÁ, Izabela - MAJEROVÁ, Petra - OLEŠOVÁ, Dominika - SULEIMAN, Saadeh - ADAMEOVÁ, Adriana**. Proteomic Screening of Early Reperfusion in Acute Ischemic Heart and Insights into Mitochondrial-Associated Cell Damage: Role of RIP3. In Frontiers in Bioscience-Landmark, 2025, vol. 30, no. 2, pp. 27119. (2024: 3.1 - IF, Q3 - JCR, 0.794 - SJR, Q2 - SJR). ISSN 2768-6698. Dostupné na: https://doi.org/10.31083/FBL27119

ADCA16 MOCHNÁČOVÁ, Evelína - BHIDE, Katarína - KUCKOVÁ, Katarína - JOZEFIAKOVÁ, Jana - MAĽARIK, Tomáš - BHIDE, Mangesh**. Antimicrobial

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ADCA17 PETROUŠKOVÁ, Patrícia - BHIDE, Katarína - MOCHNÁČOVÁ, Evelína - KULKARNI, Amod - JOZEFIAKOVÁ, Jana - TKÁČOVÁ, Zuzana - MAĽARIK, Tomáš - KUCKOVÁ, Katarína - TALPAŠOVÁ, Lea - VIGLASKY, Jakub - KEVÉLY, Ádám - KOČI, Kamila - NOVÁKOVÁ, Eva - KOČI, Juraj** - BHIDE, Mangesh**. Peptides developed against receptor binding sites of the E glycoprotein neutralize tick-borne encephalitis virus. In Scientific Reports, 2025, vol. 15, art.no. 11435, 15 pp. (2024: 3.9 - IF, Q1 - JCR, 0.874 - SJR, Q1 - SJR). ISSN 2045-2322. Dostupné na: https://doi.org/10.1038/s41598-025-95449-1

ADCA18 PIEŠŤANSKÝ, Juraj** - OLEŠOVÁ, Dominika - MAJEROVÁ, Petra - CHAĽOVÁ, Petra - KOVÁČ, Andrej*. A Protocol for Determination of Proteinogenic Amino Acids in Biological Fluids by the High-Speed UHPLC-MS Method: Application on Transgenic Spontaneously Hypertensive Rat-24 Plasma and Cerebrospinal Fluid Samples. In Journal of Separation Science, 2025, vol. 48, no. 2, art. no. e70089. (2024: 2.8 - IF, Q2 - JCR, 0.523 - SJR, Q2 - SJR). ISSN 1615-9306. Dostupné na: https://doi.org/10.1002/jssc.70089

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ADEB Vedecké práce v ostatných zahraničných časopisoch – neimpaktovaných

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

ADMA01 ALI, Shabana Amanda** - PASTRELLO, Chiara - KAUR, Navdeep - PEFFERS, Mandy J. - ORMSETH, Michelle J. - JURIŠICA, Igor. A Network Biology Approach to Understanding the Tissue-Specific Roles of Non-Coding RNAs in Arthritis. In Frontiers in Endocrinology, 2021, vol. 12, art. no. 744747. (2020: 5.555 - IF, Q1 - JCR, 1.518 - SJR, Q1 - SJR). ISSN 1664-2392. Dostupné na: https://doi.org/10.3389/fendo.2021.744747

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Белгородский государственный технологический университет им. В.Г. Шухова, Белгород монография, Язык: русский, Год издания: 2024 Место издания: Белгород, Число страниц: 148 [NOZDRACHEVA A.V., KARBONE D., RYBAK L.A., SEMENENKO T.A., CHERKASOV V.V., SKITOVA V.M. (2024) POPULYATSIONNYY BIOBANK: KONTSEPTSIYA I SOVREMENNOYe INFORMATSIONNO-TEKHNICHESKOYe OBESPECHENIYe EPIDEMIOLOGICHESKIKH ISSLEDOVANIY. Belgorodskiy gosudarstvennyy tekhnologicheskiy universitet im. V.G. Shukhova, Belgorod monografiya, YAzyk: russkiy, God izdaniya: 2024 Mesto izdaniya: Belgorod, Chislo stranits: 148] ISBN: 978-5-361-01403-3 eLIBRARY ID: 75171657
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14. [3.1] SILVA K. de O. e PIMENTEL D. de S. SÍNDROME DA DISFUNÇÃO COGNITIVA EM FELINOS DOMÉSTICOS.[Cognitive dysfunction syndrome in domestic felines] Ciência Animal, [S. l.], v. 34, n. 4, p. 94–109, 2024. Disponível em: https://revistas.uece.br/index.php/cienciaanimal/article/view/14729. ISSN:

1518-2797 (Print) | Ciência Animal Brasileira.
15. [3.1] STANEK Magdalena, BABIŃSKI Bartłomiej, ŚWIĘCICKA Natasza, KOMOSA Marcin; Zaburzenia pamięci u zwierząt towarzyszących–przyczyny, objawy, zapobieganie [Memory disorders in companion animals – the causes, the symptoms and the protective measures] Życie Weterynaryjne /prace poglądowe • 2024 • 99(3), 165-174. ZW-03-2024-01.pdf; ISSN 0137-6810 (Print)

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

GII01 CSICSÁTKOVÁ, Nikoleta - SZALAY, Peter - MÁTYÁSOVÁ, Katarína - ČENTE, Martin - SMOLEK, Tomáš - BREZOVÁKOVÁ, Veronika - ŽILKA, Norbert - JADHAV, Santosh. Transcriptomic signature and enriched signaling pathways linked to Alzheimer';s disease model induced by tau seed pathology. In FENS Forum 2022 : E-Book of Abstracts. - 2022.

Citácie:
1. [1.2] SONG, Ying - WANG, Wenjun - WANG, Beibei - SHI, Qiwen. The Protective Mechanism of TFAM on Mitochondrial DNA and its Role in Neurodegenerative Diseases. In Molecular Neurobiology, 2024-07-01, 61, 7, pp. 4381-4390. ISSN 08937648. Dostupné na: https://doi.org/10.1007/s12035-023-03841-7, Registrované v: SCOPUS

Príloha A-4

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

prof. MVDr. Daša Čížková, DrSc.
Názov semestr. predmetu: ZRM(Základy Reg. Med)/ BRM (Basics of Reg. Med.)
Počet hodín za semester: 56
Názov katedry a vysokej školy: Univerzita veterinárskeho lekárstva a farmácie v Košiciach, KMZ/CEKRM

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

Semestrálne cvičenia:

PharmDr. Andrej Kováč, PhD.
Názov semestr. predmetu: farmaceutická technológia
Počet hodín za semester: 150
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Farmaceutická technológia

PharmDr. Andrej Kováč, PhD.
Názov semestr. predmetu: Farmaceutická technológia
Počet hodín za semester: 150
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, 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

PharmDr. Andrej Kováč, PhD.
Názov semestr. predmetu: Farmakológia
Počet hodín za semester: 50
Názov katedry a vysokej školy: Univerzita veterinárskeho lekárstva a farmácie v Košiciach, Katedra farmakológie a toxikológie

Semináre:

Ing. Ondrej Cehlár, PhD.
Názov semestr. predmetu: Základy molekulového modelovania liečiv, Seminár z Farmaceutickej chémie, Laboratórne cvičenia z Farmaceutickej chémie, Laboratórne cvičenia z analýzy liečiv
Počet hodín za semester: 30
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra farmaceutickej chémie

Ing. Ondrej Cehlár, PhD.
Názov semestr. predmetu: Základy molekulového modelovania liečiv, Seminár z Farmaceutickej chémie, Laboratórne cvičenia z Farmaceutickej chémie, Laboratórne cvičenia z analýzy liečiv
Počet hodín za semester: 30
Názov katedry a vysokej školy: Univerzita Komenského v Bratislave, Katedra farmaceutickej chémie

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, Katedra molekulárnej biológie

Mgr. Naďa Labajová, PhD.
Názov semestr. predmetu: Pokroky molekulárnej biológie
Počet hodín za semester: 3
Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra molekulárnej biológie

RNDr. Rostislav Škrabana, PhD.
Názov semestr. predmetu: Protein flexibility and X-ray crystallography
Počet hodín za semester: 3
Názov katedry a vysokej školy: Masarykova Univerzita, CEITEC (Central European Institute of Technology), Brno, Česká Republika, CEITEC

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					Rostislav Škrabana	71
Česko					Katarína Martonová	48
					Stefana Njemoga	12
					Adam Polák	12
Indonézia					Andrej Kováč	25
					Petra Majerová	25
USA					Krutika Khiratkar	120
Počet vyslaní spolu					**7**	**313**

(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**
Ukrajina	Doc. Nataliia Hryntsova, PhD.	1095				
Počet prijatí spolu	**1**	**1095**				

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

Krajina	**Názov konferencie**	**Meno pracovníka**	**Počet dní**
Česko	ADDIT- CE NC Meetup No.6	Naďa Labajová	1
	ADDIT- CE NC Meetup No.5	Naďa Labajová	1
	ADDIT- CE NC Meetup No.6	Ondrej Cehlár	1
		Rostislav Škrabana	1
	CzeSEV Meeting 2025	Andrej Durgala	1
	InterTAU Summer School ll	Ondrej Cehlár	5
		Katarína Martonová	5

		Stefana Njemoga	5
		Adam Polák	5
		Rostislav Škrabana	5
	TBI -Bezpečnejší šport	Barbora Mesarošová	1
	TBI -Bezpečnejší šport	René Beláček	1
		Andrej Durgala	1
	XXI DSMB and 8th UM CIISB	Ondrej Cehlár	5
		Katarína Martonová	5
		Adam Polák	6
	XXVIIIth Biochemistry Congress, 2025	Muhammad Khalid Muhammadi	4
Francúzsko	XVII EMGC in Health and Disease	Tomáš Smolek	4
Japonsko	17th ISNI	Tomáš Smolek	4
Litva	4th ML4NGP	Ondrej Cehlár	4
	4th ML4NGP	Katarína Martonová	4
		Stefana Njemoga	4
		Adam Polák	4
		Rostislav Škrabana	4
Maďarsko	DRUG DELIVERY THROUGH THE PHYSIOLOGICAL BARRIERS	Kevin James	3
Nórsko	FENS FRM 2025	Kevin James	4
Poľsko	35th ECM	Ondrej Cehlár	5
Rakúsko	41st International Winter-Workshop CCBP 2025	Krutika Khiratkar	3
	AD/PD 2025	Neha Basheer	5
		Muhammad Khalid Muhammadi	5
Spolu	**18**	**30**	**106**

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

Skratky použité v tabuľke C:

ADDIT- CE NC Meetup No.6 - AD workshop No.6 a ADDIT- CE NeuroConnect Meetup
17th ISNI - 17th International Congress of Neuroimmunology – ISNI
35th ECM - 35th European Crystallographic Meeting
41st International Winter-Workshop CCBP 2025 - 41st International Winter-Workshop on Clinical, Chemical, and Biochemical Aspects of Pteridines 2025
4th ML4NGP - 4th ML4NGP meeting on Machine Learning and Non-globular proteins
AD/PD 2025 - International conference AD/PD 2025
ADDIT- CE NC Meetup No.5 - AD workshop No.5 a ADDIT- CE NeuroConnect Meetup
ADDIT- CE NC Meetup No.6 - AD workshop No.6 a ADDIT- CE NeuroConnect Meetup
CzeSEV Meeting 2025 - CzeSEV Meeting 2025
DRUG DELIVERY THROUGH THE PHYSIOLOGICAL BARRIERS - DRUG DELIVERY THROUGH THE PHYSIOLOGICAL BARRIERS
FENS FRM 2025 - FENS FRM 2025
InterTAU Summer School ll - InterTAU Summer School ll
TBI -Bezpečnejší šport - TRAUMATICKÉ POŠKODENIE MOZGU. Bezpečnejší šport – ochrana pred následkami

úrazov v kolektívnych športových hrách. IV. Ročník, Bratislava,
XVII EMGC in Health and Disease - XVII European Meeting on Glial Cells in Health and Disease
XXI DSMB and 8th UM CIISB - XXI Discussions in Structural Molecular Biology and 8th User Meeting of CIISB (Czech Infrastructure for Integrative Structural Biology)
XXVIIIth Biochemistry Congress, 2025 - XXVIIIth Biochemistry Congress, 2025

Príloha A-6

Vedecko-popularizačná činnosť pracovníkov organizácie

Meno	Spoluautori	Typ[1]	Názov	Miesto zverejnenia	Dátum alebo počet za rok
MUDr. RNDr. Dominika Fričová, PhD.		TL	Ako poslať mozog do kúpeľov?	https://eventy.forbes.sk/index.php?page=eventDetail&action=speakerDetail&ehash=lmWFnnOzyb2toqqW2w%3D%3D&speakerId=8697&lang=sk	29.5.2025
MUDr. RNDr. Dominika Fričová, PhD.		TL	Dopamínová pasca	https://mitsloan.cz/coming-soon	1.6.2025
MUDr. RNDr. Dominika Fričová, PhD.		TL	Hormonálna nerovnováha vytvára na mozog stres. Neurobiologička Dominika Fričová radí, čo vtedy môže pomôcť	https://dennikn.sk/4818364/hormonalna-nerovnovaha-vytvara-na-mozog-stres-neurobiologicka-dominika-fricova-radi-co-vtedy-moze-pomoct/	29.8.2025
MUDr. RNDr. Dominika Fričová, PhD.		TV	Trochu inak s Adelou	https://www.stvr.sk/televizia/archiv/15363/556278	26.9.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Ak abstinujete od alkoholu, mali by ste sa vyhýbať aj punčovým rezom	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	19.1.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Čuch nám pomáha v hľadaní partnera	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	2.3.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Deti sú ako špongie. Neučia sa len od dospelých	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	13.4.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Dokáže sa ktokoľvek naučiť čokoľvek?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	23.3.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Einsteinov mozog rozdelili na viac ako dvesto častí	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	26.1.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Horory držia mozog v pozore	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	9.3.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Je to strašné, stanete sa väzňom vo vlastnom tele	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	11.5.2025
MUDr. RNDr. Dominika Fričová,	Denisa Prokočáková	IN	Látka, ktorú proti vám používa facebook	https://www.sme.sk/po	27.4.2025

PhD.			aj reklama	dcasty/brainstorming-podcast-o-mozgu	
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Manželku si pomýlil s klobúkom. Chcel si ju nasadiť na hlavu	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	16.3.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Na Slovensku je aj v roku 2025 náročné byť ženou vo vede	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	6.4.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Orgazmus v mozgu? Neuveriteľná explózia!	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	9.2.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Pacient zabíjal námesačný, prešlo mu to	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	4.5.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Prečo nevieme mozog transplantovať? Výzva je pripojiť ho k novému telu	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	29.6.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Sila neuromarketingu je enormná. Dokáže hýbať s našimi emóciami	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	17.8.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Ste sova alebo ranné vtáča? Nie je to len o zvyku	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	16.2.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Tehotenský mozog naozaj existuje. Po pôrode sú ženy empatickejšie	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	10.8.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Vnútorné GPS existuje. Vďaka čomu vieme, kde sa práve nachádzame?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	23.2.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Vnútorné GPS existuje. Vďaka čomu vieme, kde sa práve nachádzame?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	23.2.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Vysoké hladiny testosterónu neznamenajú extrémne agresívne správanie	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	2.2.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Ako prekonať vlastný mozog s Ódorom a Bielikom	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	23.11.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Dokážu doplnky s kyselinou gama aminomaslovou naozaj uľaviť od úzkosti	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	8.9.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Evolučne je dôležité, aby sme boli v pohybe. Má zmysel začať cvičiť aj po štyridsiatke?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	31.8.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Existuje mužský a ženský mozog	https://www.sme.sk/podcasty/brainstorming-	27.10.2025

				podcast-o-mozgu	
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Keď mal 30 rokov, stratil schopnosť hovoriť.	https://eventy.forbes.sk/index.php?page=eventDetail&action=speakerDetail&ehash=lmWFnnOzyb2toqqW2w%3D%3D&speakerId=8697&lang=sk	13.1.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Mozog nefunguje ako dokonalý videorekordér. Môžu spomienky klamať?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	10.11.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Mozog nelení ani počas spánku. Má snívanie zmysel?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	22.9.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Na sociálnych sieťach trávime každý deň viac ako dve hodiny. Mení to mozog	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	24.8.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Opatrný či hazardér? Ako sa správa mozog pri veľkých rozhodnutiach	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	3.11.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Porno ničí vzťahy. Muž použil ako sexuálnu pomôcku gramofón	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	13.10.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Prečo nie sme štekliví hocikedy a s kýmkoľvek	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	20.10.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Tisíc pacientov, tisíckrát iný obraz ochorenia. Taká je schizofrénia	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	29.9.2025
MUDr. RNDr. Dominika Fričová, PhD.	Denisa Prokočáková	IN	Vieme, že sme zomreli a mihne sa nám pred očami život ako film?	https://www.sme.sk/podcasty/brainstorming-podcast-o-mozgu	6.10.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	SCIENCE SLAM SAV 2025 – ZÁBAVA, FASCINÁCIA AJ HUMOR	www.sav.sk	16.4.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		RO	Akadémia, Etika neurotechnológií	rádio Devín, STVR	20.12.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Ako rozmýšľať nielen o mozgu.	Gymnázium, Grösslingová 18, Bratislava	5.9.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		IN	Analýza mRNA vakcín bude trvať najmenej týždne. SAV nevie, či a od koho na ňu dostane peniaze Čítajte viac: https://www.sme.sk/domov/c/covid-19-mrna-vakciny-analyza-sav	www.sme.sk	23.4.2025
MUDr. Mgr. Tomáš		IN	Naozaj vinou AI prestávame myslieť?	www. dennikn.sk	26.6.2025

Hromádka, PhD.			Nie, nová štúdia nedokazuje, že pre umelú inteligenciu hlúpne		
MUDr. Mgr. Tomáš Hromádka, PhD.		IN	Nemôžem uveriť, že v roku 2025 sa ešte stále diskutuje o tom, či je očkovanie správne, hovorí Tomáš Hromádka z SAV	www. dennikn.sk	2.6.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		IN	Objavil štruktúru DNA, no zároveň si myslel, že černosi a ženy majú nižšie IQ ako bieli muži. Aký je odkaz nobelistu Jamesa Watsona?	www. dennikn.sk	15.11.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Očkovanie zachraňuje životy. Bodka.	www.sme.sk	10.10.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		PB	Prečo nerozumieme mozgu	Spojená škola Svätej Rodiny – gymnázium	24.3.2025
MUDr. Mgr. Tomáš Hromádka, PhD.		RO	Svet nebol na kovid vôbec pripravený. Pandemická dohoda je pre nás výhodná a k ničomu nás netlačí	https://akademiavied.podbean.com/	20.5.2025
RNDr. Rostislav Škrabana, PhD.		IN	International Visit at IHEM! Instagram	https://www.instagram.com/p/DI_4D-Rxdbh/?utm_source=ig_web_copy_link	28.4.2025
doc. MVDr. Norbert Žilka, DrSc.		PB	ALZHEIMEROVA CHOROBA JE OCHORENIE MNOHÝCH TVÁRÍ	https://www.sav.sk/	18.11.2025
doc. MVDr. Norbert Žilka, DrSc.		PB	Biobanky otvárajú cestu k personalizovanej medicíne	www.mediweb.hnonline.sk	6.2.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Budúcnosť kúpeľnej liečby sa rodí v Piešťanoch	www.topky.sk	13.2.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Do Európy prichádza dlhoočakávaný liek na alzheimera. Spôsobí revolúciu? Čítajte viac: https://www.sme.sk/podcasty/c/do-europy-prichadza-dlhoocakavany-liek-na-alzheimera-sposobi-revoluciu	https://www.sme.sk/podcasty/c/do-europy-prichadza-dlhoocakavany-liek-na-alzheimera-sposobi-revoluciu	14.1.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Guláš vedeckých škandálov	www.tyzden.sk	28.3.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Herpesvírus v službách demencie	www.tyzden.sk	13.6.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Hladovanie s ručením obmedzeným	www.tyzden.sk	28.2.2025

doc. MVDr. Norbert Žilka, DrSc.		IN	Hýbať sa oplatí: Oddialiť Alzheimerovu chorobu môže už tritisíc krokov denne, pohyb mozgu pomáha	www.spravy.sk	8.11.2025
doc. MVDr. Norbert Žilka, DrSc.		TL	Imunita v cigaretovom dyme	Týždeň	2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Je najdrahším ochorením na Slovensku, no stále sa tvárime, že sa nás netýka	https://nm.sk/je-najdrahsim-ochorenim-na-slovensku-no-stale-sa-tvarime-ze-sa-nas-netyka/	21.11.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Jednou nohou sme už vkročili do éry, keď budeme vedieť liečiť alzheimera Čítajte viac: https://www.sme.sk/primar/c/neuroimunolog-zilka-jednou-nohou-sme-uz-vkrocili-do-ery-ked-budeme-vediet-liecit-alz	www.sme.sk/primar	24.1.2025
doc. MVDr. Norbert Žilka, DrSc.		TL	Keď sa bielkoviny zbláznia	Téma č. 33/2025	15.8.2025
doc. MVDr. Norbert Žilka, DrSc.		PB	Keď sa črevo sťažuje, ľudský mozog trpí	Ekonomická univerzita v Bratislave	20.3.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Krvný test na Alzheimerovu chorobu je už na európskom trhu. Čítajte viac: https://www.sme.sk/primar/c/krvny-test-na-alzheimerovu-chorobu-je-uz-na-europskom-trhu-slovaci-maju-vlastnu-technologiu	www.sme.sk	10.11.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Ľudia si často zamieňajú demenciu s prirodzeným starnutím, hovorí odborník na Alzheimerovu chorobu	www.dennikn.sk	18.1.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Mám demenciu! Môj čelový lalok niekam zdrhol	https://vedanadosah.cvtisr.sk/zdravie/mam-demenciu-moj-celovy-lalok-niekam-zdrhol/	15.3.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Môže mať konsolidácia medicínske dopady?	www.tyzden.sk	5.9.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Na Slovensku sa pomaly rozvíja biobankovanie, jeden z kľúčov k zdraviu národa	https://vedanadosah.cvtisr.sk/zdravie/biotechnologie/na-slovensku-sa-pomaly-rozvija-biobankovanie-jeden-z-klucov-k-zdraviu-	3.2.2025

				naroda/	
doc. MVDr. Norbert Žilka, DrSc.		IN	Nobelov výbor zase posunul do reflektorov imunológiu – prečo?	www.tyzden.sk	17.10.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	O slintaní a krívaní	www.tyzden.sk	11.4.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Prečo majú tehotné ženy v Európe nedostatok vitamínov a minerálov?	www.tyzden.sk	31.10.2025
doc. MVDr. Norbert Žilka, DrSc.		PB	PREDNÁŠKA V LUČENCI VYROZPRÁVA PRÍBEH ALZHEIMEROVEJ CHOROBY	www.sav.sk	24.10.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Servis mozgu pri Parkinsonovej chorobe	www.tyzden.sk	4.7.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Slovensko nie je Popoluškou vo výskume Alzheimerovej demencie	https://sita.sk/vzdravotnictve/norbert-zilka-slovensko-nie-je-popoluskou-vo-vyskume-alzheimerovej-demencie-rozhovor/	18.3.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Som optimista, v horizonte dekády sa priblížime k vyliečeniu Alzheimerovej choroby	www.ozdravme.sk	7.9.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Sú tri faktory, prečo Slovensko hrá prvú ligu vo výskume Alzheimerovej choroby Čítajte viac: https://www.sme.sk/tech/c/neuroimunolog-zilka-su-tri-faktory-preco-slovensko-hra-prvu-ligu-vo-vyskume-alzh	https://www.sme.sk/tech/c/neuroimunolog-zilka-su-tri-faktory-preco-slovensko-hra-prvu-ligu-vo-vyskume-alzheimerovej-choroby	1.4.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Úplne nový svet, bez vakcín	www.tyzden.sk	14.3.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Vedec Žilka vyvíja vakcínu proti Alzheimerovi: Niektoré rizikové faktory vieme ovplyvniť. Kľúčom je šťastný život Zdroj: https://tvnoviny.sk/domace/clanok/977382-vedec-zilka-vyvija-vakcinu-proti-alzhe	https://tvnoviny.sk/domace/clanok/977382-vedec-zilka-vyvija-vakcinu-proti-alzheimerovi-niektore-rizikove-faktory-vieme-ovplyvnit-klucom-je-stastny-ziv	16.7.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Vedec Žilka vyvíja vakcínu proti Alzheimerovi: Niektoré rizikové faktory vieme ovplyvniť. Kľúčom je	https://tvnoviny.sk/domace/clanok/977382-vedec-zilka-vyvija-vakcinu-proti-alzheimerovi-niektore-	16.7.2025

			šťastný život Zdroj: https://tvnoviny.sk/domace/clanok/977382-vedec-zilka-vyvija-vakcinu-proti-alzhe	rizikove-faktory-vieme-ovplyvnit-klucom-je-stastny-ziv	
doc. MVDr. Norbert Žilka, DrSc.		IN	Veľký skladateľ Ravel trpel demenciou	www.tyzden.sk	19.9.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Vlastní veda recept na pravdu?	www.tyzden.sk	25.4.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Závažné ochorenia mozgu - demencia a Alzheimerova choroba 01	www.tvdoktor.sk	15.5.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Závažné ochorenia mozgu - demencia a Alzheimerova choroba 02	www.tvdoktor.sk	22.5.2025
doc. MVDr. Norbert Žilka, DrSc.		IN	Zlodejstvá rakovinových buniek	www.tyzden.sk	11.7.2025

[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 2025

Domáce ocenenia

Ocenenia SAV

Iné domáce ocenenia

Basheer Neha
Competition for the Best Paper in Neuroscience
Oceňovateľ: Slovenská spoločnosť pre Neurovedy
Opis: 1. miesto v súťaži o najlepšiu publikáciu v oblasti neurovied za rok 2025

Khiratkar Krutika
Competition for the Best Paper in Neuroscience
Oceňovateľ: Slovenská spoločnosť pre Neurovedy
Opis: 3. miesto v súťaži o najlepšiu publikáciu v oblasti neurovied za rok 2025

Palová Denisa
Ocenenie mladého imunológa za najlepšiu publikáciu
Oceňovateľ: Slovenská imunologická spoločnosť
Opis: Ocenená publikácia z oblasti imunológie za rok 2025

Medzinárodné ocenenia

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