

Ústav experimentálnej farmakológie a toxikológie SAV



Správa o činnosti organizácie SAV za rok 2015

Bratislava
január 2016

Obsah osnovy Správy o činnosti organizácie SAV za rok 2015

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

PRÍLOHY

- A Zoznam zamestnancov a doktorandov organizácie k 31.12.2015*
- B Projekty riešené v organizácii*
- C Publikačná činnosť organizácie*
- D Údaje o pedagogickej činnosti organizácie*
- E Medzinárodná mobilita organizácie*

1. Základné údaje o organizácii

1.1. Kontaktné údaje

Názov: Ústav experimentálnej farmakológie a toxikológie SAV

Riaditeľ: RNDr. Michal Dubovický, CSc.

Zástupca riaditeľa: RNDr. Mojmir Mach, PhD.

Vedecký tajomník: MVDr. Štefan Bezek, DrSc.

Vedecký tajomník: RNDr. Tatiana Mačičková, CSc.

Predseda vedeckej rady: Ing. Milan Štefek, CSc.

Člen snemu SAV: RNDr. Michal Dubovický, CSc.

Adresa: Dúbravská cesta 9, 841 04 Bratislava

<http://www.uef.sav.sk/>

Tel.: 02/5941 0651

Fax: 02/5477 5928

E-mail: exfasekr@savba.sk

Názvy a adresy detašovaných pracovísk:

- **Oddelenie toxikológie a chovu laboratórnych zvierat**
919 54 Dobrá Voda 360

Vedúci detašovaných pracovísk:

- **Oddelenie toxikológie a chovu laboratórnych zvierat**
Ing. Ivan Padej

Typ organizácie: Rozpočtová od roku 1947

1.2. Údaje o zamestnancoch

Tabuľka 1a Počet a štruktúra zamestnancov

| Štruktúra zamestnancov | K | K | | K do 35 rokov | | F | P | T |
|-----------------------------------|----|----|----|---------------|---|----|------|------|
| | | M | Ž | M | Ž | | | |
| Celkový počet zamestnancov | 62 | 22 | 40 | 4 | 9 | 59 | 56,9 | 36,9 |
| Vedeckí pracovníci | 34 | 15 | 19 | 2 | 8 | 32 | 27,9 | 26,9 |
| Odborní pracovníci VŠ | 6 | 2 | 4 | 1 | 1 | 6 | 6 | 5 |
| Odborní pracovníci ÚS | 18 | 4 | 14 | 1 | 0 | 18 | 19 | 5 |
| Ostatní pracovníci | 4 | 1 | 3 | 0 | 0 | 3 | 4 | 0 |

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2015 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2015 (bez riadnej materskej dovolenky, zamestnancov pôsobiach v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiach v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2015)

| Rodová skladba | Pracovníci s hodnosťou | | | | Vedeckí pracovníci v stupňoch | | |
|----------------|------------------------|-----------|-------|------|-------------------------------|------|------|
| | DrSc. | CSc./PhD. | prof. | doc. | I. | IIa. | IIb. |
| Muži | 5 | 11 | 2 | 1 | 7 | 6 | 2 |
| Ženy | 2 | 19 | 0 | 1 | 2 | 10 | 7 |

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

| Veková štruktúra (roky) | < 31 | 31-35 | 36-40 | 41-45 | 46-50 | 51-55 | 56-60 | 61-65 | > 65 |
|-------------------------|------|-------|-------|-------|-------|-------|-------|-------|------|
| Muži | 1 | 2 | 2 | 0 | 2 | 1 | 0 | 2 | 5 |
| Ženy | 3 | 4 | 2 | 1 | 1 | 3 | 4 | 4 | 3 |

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2015

| | Kmeňoví zamestnanci | Vedeckí pracovníci | Riešitelia projektov |
|--------------|---------------------|--------------------|----------------------|
| Muži | 52,0 | 53,8 | 53,5 |
| Ženy | 50,8 | 46,7 | 49,6 |
| Spolu | 51,2 | 49,9 | 51,1 |

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

2. Vedecká činnosť

2.1. Domáce projekty

Tabuľka 2a Počet domácich projektov riešených v roku 2015

| ŠTRUKTÚRA PROJEKTOV | Počet projektov | | Čerpané financie za rok 2015 (v €) | | |
|---|-----------------|---|------------------------------------|-----------------|------|
| | A | B | A | | B |
| | | | spolu | pre organizáciu | |
| 1. Vedecké projekty, ktoré boli r. 2015 financované VEGA | 12 | 2 | 96320 | 93657 | - |
| 2. Projekty, ktoré boli r. 2015 financované APVV | 0 | 0 | - | - | - |
| 3. Projekty OP ŠF | 0 | 1 | - | - | 3258 |
| 4. Projekty centier excelentnosti SAV | 0 | 0 | - | - | - |
| 5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.) | 3 | 0 | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Počet návrhov domácich projektov podaných v roku 2015

| Štruktúra projektov | Miesto podania | Organizácia je nositeľom projektu | Organizácia sa zmluvne podieľa na riešení projektu |
|---|----------------|-----------------------------------|--|
| 1. Účasť na nových výzvach APVV r. 2015 | Bratislava | 3 | 2 |
| 2. Projekty výziev OP ŠF podané r. 2015 | Bratislava | | |
| | Regióny | | |

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2015

Tabuľka 2c Počet medzinárodných projektov riešených v roku 2015

| ŠTRUKTÚRA PROJEKTOV | Počet projektov | | Čerpané financie za rok 2015 (v €) | | |
|--|-----------------|---|------------------------------------|-----------------|------|
| | A | B | A | | B |
| | | | spolu | pre organizáciu | |
| 1. Projekty 7. Rámcového programu EÚ | 0 | 0 | - | - | - |
| 2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, ESPRIT, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF a iné | 0 | 5 | - | - | 9186 |
| 3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci | 0 | 0 | - | - | - |
| 4. Bilaterálne projekty | 1 | 0 | - | - | - |
| 5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTS, APVV,...) | 4 | 0 | 15000 | 15000 | - |
| 6. Iné projekty financované alebo spolufinancované zo zahraničných zdrojov | 0 | 0 | - | - | - |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

2.2.2. Medzinárodné projekty v 7. RP EÚ a Horizont 2020 podané v roku 2015

Tabuľka 2d Počet projektov 7. RP EÚ a Horizont 2020 v roku 2015

| | A | B |
|---|---|---|
| Počet podaných projektov v 7. RP EÚ | | |
| Počet podaných projektov Horizont 2020 | 2 | |

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

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

2.2.3. Zámery na čerpanie štrukturálnych fondov EÚ v ďalších výzvach

Ústav sa bude uchádzať o čerpanie štrukturálnych fondov EÚ v pripravovaných výzvach. Hlavným cieľom bude podpora a dobudovanie infraštruktúry pracoviska.

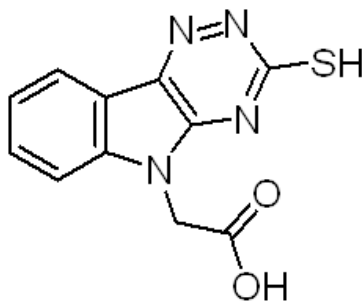
2.3. Najvýznamnejšie výsledky vedeckej práce (maximálne 1000 znakov + 1 obrázok)

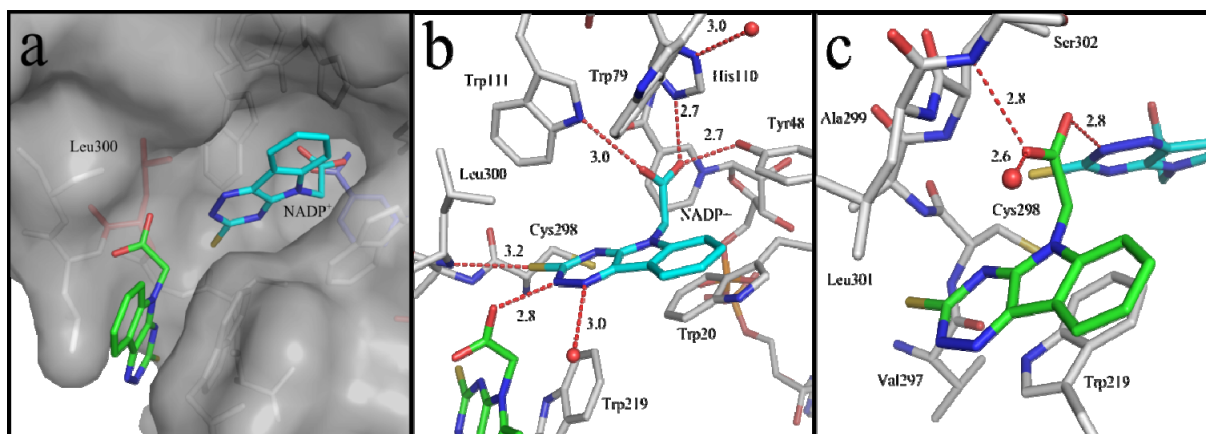
2.3.1. Základný výskum

NOVÉ INHIBÍTORE ALDÓZAREDUKTÁZY NA BÁZE KARBOXYMETYLOVANÝCH MERKAPTOTRIAZINOINDOLOV

VEGA 2/0067/11, VEGA 2/ 0033/14, MVTS COST CM1103 a BM1204

Z databáz komerčne dostupných zlúčenín bolo metódou ligandovo-orientovaného virtuálneho skríningu vybratých 15 látok charakterizovaných spoločným fragmentom kyseliny indol-1-octovej. Takto vytvorený experimentálny set bol podrobený skríningu na inhibičnú aktivitu aldózareduktázy. Derivát 3-merkpto-5H-1,2,4-triazino[5,6-b]indol-5-acetát (látka 13), s IC_{50} v submikromolárnej oblasti a vysokou selektivitou voči štrukturálne príbuznej aldehydoreduktáze, bol identifikovaný ako sľubná nosná štruktúra pre vývoj farmakologicky využiteľných inhibítorov aldózareduktázy. Vysokorozlišovacou rentgenovou analýzou kryštálovej štruktúry komplexu inhibítora s enzýmom boli identifikované kľúčové interakcie zodpovedné za vysokú afinitu a selektivitu. Inhibičný potenciál látky 13 sa demonštroval na orgánovej úrovni na modeli izolovaných šošoviek potkana inkubovaných v prítomnosti glukózy ako i v podmienkach *in vivo* na modeli experimentálneho diabetu potkanov. Parametre “molekulárnej obezity”, štrukturálne rysy vyhovujúce “pravidlu troch” a dobrá rozpustnosť vo vode poukazujú na látku 13 ako na sľubnú nosnú štruktúru, vhodnú na ďalšiu štrukturálnu optimalizáciu.





Obr. 1. 3-Merkapto-5H-1,2,4-triazino[5,6-b]indol-5-octová kyselina (látka 13) a roentgenová analýza kryštálovej štruktúry AKR1B1 v komplexe s látkou 13.

ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In *Journal of medicinal chemistry*, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). (2015 - Current Contents). ISSN 0022-2623. VEGA 2/0067/11, VEGA 2/0033/14, COST CM1103, COST BM1204. Typ ADCA.

ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - GAJDOŠÍKOVÁ, Alena - GAJDOŠÍK, Andrej - ŠTEFEK, Milan. A novel carboxymethylated mercaptotriazinoindole inhibitor of aldose reductase interferens with the polyol pathway in streptozotocin-induced diabetic rats. In *Physiological Research*, 2015, vol. 64, no. 4, p. 587-591. (1.293 - IF2014). (2015 - Current Contents). ISSN 0862-8408. VEGA 2/0067/11, VEGA 2/0041/15. Typ ADCA.

ŠTEFEK, Milan - MILÁČKOVÁ, Ivana - DIEZ-DACAL, Beatriz - PÉREZ-SALA, Dolores - ŠOLTÉSOVÁ PRNOVÁ, Marta. Use of 5-carboxymethyl-3-mercapto-1,2,4-triazino-[5,6-B]indoles and their pharmaceutical composition : international publication number WO 2015/057175 A1. International publication date: 23 april 2015 (23.04.2015). Applicant: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava (SK). International patent classification: A61K 31/53 (2006.01). World Intellectual Property Organization, 2015.

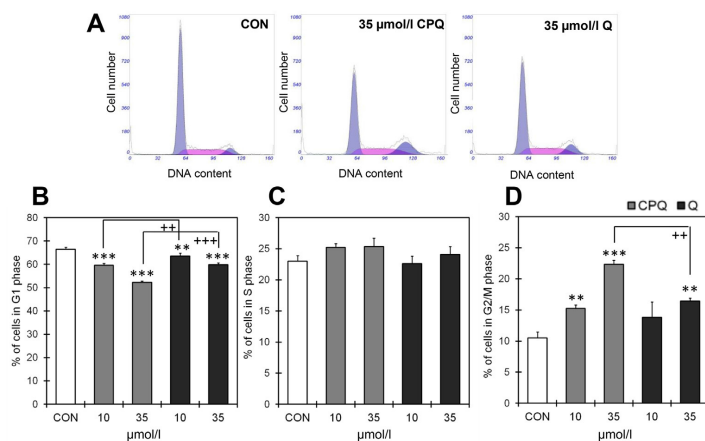
SOLTESOVA PRNOVA, Marta - BALLEKOVA, Jana - MAJEKOVA, Magdalena - STEFEK, Milan. Antioxidant action of 3-mercapto-5H-1,2,4-triazino[5,6-b]indole-5-acetic acid, an efficient aldose reductase inhibitor, in a 1,1'-diphenyl-2-picrylhydrazyl assay and in the cellular system of isolated erythrocytes exposed to tert-butyl hydroperoxide. *Redox Rep.* 2015 Nov;20(6):282-8. (Journal Impact Factor: 1.522)

SEMISYNTETICKÝ DERIVÁT KVERCETÍNU CPQ AKO NOVÉ PERSPEKTÍVNE LIEČIVO OVPLYVŇUJÚCE NEUROINFLAMÁCIU

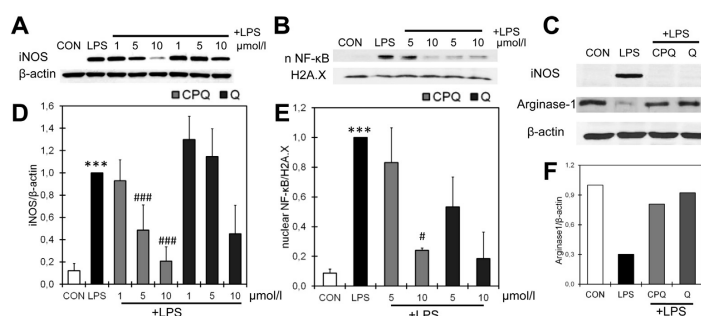
VEGA 2/0031/12, ITMS 26240220040

Nový semisyntetický flavonoid, 3'-O-(3-chlóropivaloyl) kvercetín (CPQ) inhiboval produkciu prozápalových mediátorov NO a TNFalfa bunkami línie mikroglií BV-2 účinnejšie ako nemodifikovaný kvercetín. Tieto účinky korelovali s inhibíciou proteínovej expície enzýmu iNOS a potlačením nukleárnej translokácie NFkB. CPQ takisto mierne účinnejšie v porovnaní s kvercetínom inhiboval stimulovanú produkciu superoxidu. Analýza inkorporácie propidium iodidu do DNA pomocou prietokovej cytometrie potvrdila aj účinnejšiu inhibíciu progresie bunkového cyklu v porovnaní s kvercetínom. Antiproliferačný efekt CPQ však nebol sprevádzaný poklesom viability ani fagocytózy sledovanej ako inkorporácia fluorescenčných partikulí a baktérií konjugovaných s FITC. Uvedené výsledky naznačujú, že nový lipofilný flavonoid CPQ môže byť perspektívnou látkou s optimalizovanou biodostupnosťou pri liečbe a prevencii neurodegenerácií s neuroinflamačnou patogenézou.

a)



b)



Obr. 2. Efekt nového flavonoidu CPQ na a) progresiu bunkového cyklu a b) proteínovú expresiu iNOS (A,D), nukleárnú translokáciu transkripčného faktora NFκappaB (B,E) a markery polarizácie mikroglíí (C, F) v bunkách mikroglieovej línie BV-2 stimulovaných bakteriálnym lipopolysacharidom.

MRVOVÁ, Nataša - ŠKANDÍK, Martin - KUNIAKOVÁ, Marcela - RAČKOVÁ, Lucia. Modulation of BV-2 microglia functions by novel quercetin pivaloyl ester. In *Neurochemistry International*, 2015, vol. 90, p. 246-254. [(3.092 - IF2014) Typ: ADCA].

2.3.2. Aplikačný typ

SAMOASOCIUJÚCE BIOPOLYMÉRNE MEMBRÁNY AKO NOSIČE LIEČIVÝCH PRÍPRAVKOV S ANTIOXIDAČNÝMI VLASTNOSTAMI

V chronicky zapálenom tkanive sa okrem nekrotických buniek nachádzajú aj bunky, ktoré sú v dôsledku poškodenia extracelulárneho glykokalyxu nedostatočne zásobené kyslíkom (stav hypoxie). Je známe, že mitochondrie v bunkách v stave hypoxie produkujú reaktívne formy kyslíka (RFK) vo zvýšenej miere. RFK, ako $O_2^{-\cdot}$, H_2O_2 , a z nich vznikajúce $^{\cdot}OH$ sú tými reaktantami, ktoré deštruuju dané tkanivo. Jednou z ciest ako účinne zredukovať neželaný tok RFK z mitochondrií je aplikácia tzv. "mitochondrially-targeted" antioxidant-ov (MTA). Riešením tejto úlohy sa zhostili vynálezcovia (PP 5032-2015) a to tak, že MTA inkorporovali do membrám tvorených dvojicou biopolymérov a to "high-molar-mass" hyaluronanom (HA) a chitosan-om. Molekuly HA (nabité záporne) sú zložkou kože, chitosan je kladne nabitý biopolymér. Kombináciou vhodného obsahu HA a chitosanu sa dá dosiahnuť tvorba veľmi pevných bio-fólií s určitým prebytkom záporného náboja. Inkorporácia MTA do takejto bio-fólie vedie k tvorbe biomembrán, z ktorých sa MTA uvoľňuje tzv. „sustained“ módom.

ŠOLTĚS, Ladislav - TAMER ABD-EL RAZIK, Tamer Mahmoud - VEVERKA, Miroslav - VALACHOVÁ, Katarína - MOHY ELDIN, Mohamed Samir. Samoasociujúce biopolymérne membrány ako nosiče liečivých prípravkov s antioxidantnými vlastnosťami a ich použitie : patentová prihláška č. PP 5032-2015, medzinárodné patentové triedenie: A61L15/00, verzia MPT: 16, dátum podania prihlášky: 10.07.2015, prihlasovateľ: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava, SK. Banská Bystrica : Úrad priemyselného vlastníctva Slovenskej republiky, 2015. Typ: **AGJ**

VPLYV TIOPRONÍNU, KAPTOPRILU A LEVAMIZOLU NA OXIDAČNÚ DEGRADÁCIU HYALURÓNANU

VEGA 2/0065/15, VEGA 2/0149/12

Skúmali sme schopnosť tiolových liečiv – tiopronínu, kaptoprilu a levamizolu (donory atómu vodíka) inhibovať degradáciu hyalurónanu (HA) pôsobením Cu(II) iónov a askorbátu (produkcia OH radikálov a radikálov typu peroxy). Ako metódu sme použili rotačnú viskozimetriu. Elektrón-donorové vlastnosti liečiv sme sledovali metódami ABTS a DPPH. Z výsledkov rotačnej viskozimetrie vyplýva, že kaptopril a tiopronín preukázali takmer rovnaký účinok pri vychytávaní OH radikálov. Pri vychytávaní peroxy radikálov bol účinnejší tiopronín. Naproti tomu, levamizol pôsobil ako pro-oxidant. Výsledky ABTS a DPPH preukázali účinok tiopronínu a kaptoprilu pri zhášaní ABTS²⁺ a DPPH[?], zatiaľ čo levamizol účinný nebol. Fragmenty HA boli analyzované pomocou FT-IR, kde sme preukázali inkorporovanie atómu síry z tiopronínu a kaptoprilu, nie však z levamizolu do molekuly HA.

VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOĽSKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTĚS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In Carbohydrate Polymers, 2015, vol. 134, p. 516-523. (4.074 - IF2014). (2015 - Current Contents). ISSN 0144-8617. Typ: **ADCA**

2.3.3. Medzinárodné vedecké projekty

TERAPEUTICKÝ EFEKT POLYFENOLOV – PINOSYLVÍNU A KVERCETÍNU V MODELI ADJUVANTNEJ ARTRITÍDY

VEGA 2/0045/11, VEGA 2/0044/15, SAV-CNR bilaterálny projekt, IMEF NRC 191/2009 (taliansky projekt), APVV-0052-10.

Nové terapie reumatoidnej artritídy (RA) tiež zahŕňajú použitie v prírode sa vyskytujúcich polyfenolov, ktoré majú antioxidantné vlastnosti. V rámci slovensko-talianskej spolupráce sa skúmali účinky perorálne podávaného kvercetínu v modeli adjuvantnej artritídy u potkanov. Experimentálne zvieratá boli liečené kvercetínom perorálne dávkou 150 mg/kg telesnej hmotnosti počas 28 dní. Výsledky ukázali, že kvercetín bol schopný zlepšiť všetky merané ukazovatele zápalu a oxidačného stresu (OS). Kvercetín znižoval hladiny interleukínu-1 β , C-reaktívneho proteínu a monocytového chemotaktického proteínu-1 (MCP-1) a obnovil antioxidantnú kapacitu plazmy. Okrem toho, kvercetín inhiboval enzymatickú aktivitu pro-zápalovej 12/15-lipoxigenázy (LOX) v pľúcach a v pečeni a zvýšil expresiu hém oxygenázy-1 (HO-1) v kĺbe a v pľúcach artritických potkanov. A taktiež inhiboval 2-násobné zvýšenie aktivity NF-kappaB v pľúcach, v pečeni a v kĺbe po indukciu artritídy. U artritických potkanov 28-dňová monoterapia pinosylvínom (PIN) v per os dávke 50 mg/kg benefične ovplyvnila aktiváciu NF-kappaB v pečeni a v pľúcach, HO-1 expresiu a aktivitu LOX v pľúcach, MCP-1 hladiny v plazme (už na 14. deň) a plazmatické hladiny F2-izoprostánov. Aj keď existujú štúdie o účinkoch antioxidantov na priebeh RA, ich úloha v kombinovanej liečbe doteraz nebola podrobne skúmaná. Významným prínosom PIN k účinku MTX bolo zníženie OS (nárast HO-1 expresie v pľúcach a zníženie plazmatických TBARS) a zníženie LOX aktivity v pľúcach. Záverom je možné konštatovať, že obe polyfenolické látky sa ukázali vhodné pre adjuvantnú terapiu artritídy popri klasickej liečbe.

BAUEROVÁ, Katarína - ACQUAVIVA, Alessandra - PONIŠT, Silvester - GARDI, Concetta - VECCHIO, Daniela - DRÁFL, František - AREZZINI, Beatrice - BEZÁKOVÁ, Lýdia - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - NOSÁL, Radomír. Markers of inflammation and oxidative stress studied in adjuvant-induced arthritis in the rat on systemic and local level affected by pinosylvin and methotrexate and their combination. In Autoimmunity, 2015, vol. 48, no. 1, p. 46-56. (2.714 - IF2014). (2015 - Current Contents). ISSN 0891-6934. Typ: **ADCA**

GARDI, Concetta - BAUEROVÁ, Katarína - STRINGA, Blerta - KUNCÍROVÁ, Viera - SLOVÁK, Lukáš - PONIŠT, Silvester - DRÁFL, František - BEZÁKOVÁ, Lýdia - TEDESCO, Idolo - ACQUAVIVA, Alessandra - BILOTTO, Stefania - RUSSO, Gian Luigi. Quercetin reduced inflammation and increased antioxidant defense in rat adjuvant arthritis. In Archives of Biochemistry and Biophysics, 2015, vol. 583, p. 150-157. (3.017 - IF2014). (2015 - Current Contents). ISSN 0003-9861. VEGA 2/0045/11, VEGA 2/0044/15, SAV-CNR, IMEF NRC 191/2009. Typ: **ADCA**

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

Tabuľka 2e Štatistika vybraných kategórií publikácií

| PUBLIKAČNÁ A EDIČNÁ ČINNOSŤ | A Počet v r. 2015/ doplnky z r. 2014 | B Počet v r. 2015/ doplnky z r. 2014 | C Počet v r. 2015/ doplnky z r. 2014 |
|--|---|---|---|
| 1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB) | 0 / 0 | 0 / 0 | 0 / 0 |
| 2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA) | 0 / 0 | 0 / 0 | 0 / 0 |
| 3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB, CAB) | 0 / 0 | 0 / 0 | 0 / 0 |
| 4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA, CAA) | 0 / 0 | 0 / 0 | 0 / 0 |
| 5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD) | 0 / 0 | 0 / 0 | 0 / 0 |
| 6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC) | 1 / 1 | 0 / 0 | 0 / 0 |
| 7. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v domácich vydavateľstvách (BBB, ACD) | 0 / 0 | 0 / 0 | 0 / 0 |
| 8. Kapitoly v odborných monografiách, vysokoškolských učebniciach a učebných textoch vydaných v zahraničných vydavateľstvách (BBA, ACC) | 0 / 0 | 0 / 0 | 0 / 0 |
| 9. Vedecké a odborné práce evidované v CCC a vedecké práce evidované vo WOS Core Collection a Scopus (ADCA, ADCB, ADDA, ADDB, ADMA, ADMB, ADNA, ADNB, CDCA, CDCB, CDDA, Cddb, BDCA, BDCB, BDDA, Bddb) | 31 / 2 | 0 / 0 | 0 / 0 |
| 10. Vedecké a odborné práce v časopisoch neevidovaných v CCC, WoS Core Collection, SCOPUS (ADEA, ADEB, ADFA, ADFB, CDEA, CDEB, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BdFA, BdFB) | 7 / 3 | 0 / 0 | 0 / 0 |
| 11. Vedecké a odborné práce v zborníkoch | | | |
| a/ recenzované práce a publikované pozvané príspevky (AECA, AECB, AEDA, AEDB, AFA, AFB, BEC, BED) | 12 / 7 | 0 / 0 | 0 / 0 |

| | | | |
|--|--------------|--------------|--------------|
| b/ nerezované práce (BEE, BEF, CEC, CED) | 0 / 0 | 0 / 0 | 0 / 0 |
| 12. Vydané periodiká evidované v CCC, WoS Core Collection, SCOPUS | 0 | 0 | 0 |
| 13. Ostatné vydané periodiká | 1 | 0 | 0 |
| 14. Vydané alebo editované zborníky z vedeckých podujatí (FAI) | 2 / 0 | 0 / 0 | 0 / 0 |
| 15. Práce uverejnené na internete (GHG) | 0 / 0 | 0 / 0 | 0 / 0 |
| 16. Preklady vedeckých a odborných textov (EAJ) | 0 / 0 | 0 / 0 | 0 / 0 |
| 17. Heslá v Encyklopédii Beliana a iných encyklopédiách a terminologických slovníkoch (BDA, BDB) | 0 / 0 | 0 / 0 | 0 / 0 |

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora

B - pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

C - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

Tabuľka 2f Ohlasy

| OHLASY | A Počet v r. 2014/ doplnky z r. 2013 | B Počet v r. 2014/ doplnky z r. 2013 |
|--|---|---|
| Citácie vo WoS Core Collection (1.1, 2.1) | 596 / 0 | 0 / 0 |
| Citácie v SCOPUS (1.2, 2.2) | 152 / 1 | 0 / 0 |
| Citácie v iných citačných indexoch a databázach (9, 10, 3.2, 4.2) | 2 / 0 | 0 / 0 |
| Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4, 3.1, 4.1) | 91 / 1 | 0 / 0 |
| Recenzie na práce autorov z organizácie (5, 6, 7, 8) | 0 / 0 | 0 / 0 |

A - pracovisko SAV je uvedené ako pracovisko (adresa) autora, alebo je súčasťou kolaborácie alebo iného združenia, ktoré je uvedené ako pracovisko (adresa) autora, alebo pracovisko SAV nie je na publikácii uvedené, pretože prameň údaj o pracovisku autora neobsahuje, práca ale vznikla na pracovisku SAV

B - pracovisko SAV je uvedené ako materské pracovisko autora odlišné od pracoviska, na ktorom práca vznikla (napr. „on leave...“, „permanent address...“, „present address...“)

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

| | |
|--|----|
| Prednášky a vývesky na medzinárodných vedeckých podujatiach | 48 |
| Prednášky a vývesky na domácich vedeckých podujatiach | 42 |

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

UJHÁZY, Eduard - NAVAROVÁ, Jana - ZEMÁNEK, Marián - DUBOVICKÝ, Michal - MACH, Mojmír.

História organizovania konferencií TOXCON. 20. Medziodborová česko-slovenská toxikologická konferencia TOXCON Brno, Česká republika 27. – 29. 5. 2015 - úvodná prednáška.

ŠTEFEK, Milan: Cemtirestat a potent aldo-keto reductase inhibitor. Joint Scientific Workshop SAS – TŮBITAK MAM Gebze, 14.-15. 4. 2015

MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágel'ová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. VEGA 2/0033/14, VEGA 2/0041/15, SIVVP ITMS 26230120002, COST CM1103, COST BM1204, MVTS CM1103, MVTS BM1204. Typ: AFF

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

ŠOLTÉSOVÁ PRNOVÁ, Marta: Nový inhibitor aldózareduktázy s antioxidačnými vlastnosťami v prevencii diabetických komplikácií. Odborný seminár k otvoreniu „Univerzitného vedeckého parku pre biomedicínu Bratislava“ 14.12.2015

MACH, Mojmír: Farmakologická bezpečnosť liečiv a produkcia hyperimúnných sér pre biotechnologický priemysel, Odborný seminár k otvoreniu „Univerzitného vedeckého parku pre biomedicínu Bratislava“ 14.12.2015

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

Štefek Milan

Novel Aldose Reductase Inhibitors Based on Carboxymethylated Mercapto-Triazino-Indole Scaffold, Middle East Technical University, Ankara, Turkey, 28.10.2015

Katarína Valachová

Self-associating biopolymeric membranes as carriers of remedies and their use.

Polymer Materials Research Department, Advanced Technologies and New Materials Research Institute, City of Scientific Research and Technological Applications (SRTA-City), 21934 Alexandria, Egypt.

Dominika Topol'ská

Effect of mitochondria-targeted antioxidant on in vitro model of oxidatively damaged fibroblasts.

Polymer Materials Research Department, Advanced Technologies and New Materials Research Institute, City of Scientific Research and Technological Applications (SRTA-City), 21934 Alexandria, Egypt.

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

2.7. Patentová a licenčná činnosť na Slovensku a v zahraničí v roku 2015

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

ŠOLTÉS, Ladislav - TAMER ABD-EL RAZIK, Tamer Mahmoud - VEVERKA, Miroslav - VALACHOVÁ, Katarína - MOHY ELDIN, Mohamed Samir. Samoasociujúce biopolymérne membrány ako nosiče liečivých prípravkov s antioxidantnými vlastnosťami a ich použitie : patentová prihláška č. PP 5032-2015, medzinárodné patentové triedenie: A61L15/00, verzia MPT: 16, dátum podania prihlášky: 10.07.2015, prihlasovateľ: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava, SK. Banská Bystrica : Úrad priemyselného vlastníctva Slovenskej republiky, 2015.

ŠTEFEK, Milan - MILÁČKOVÁ, Ivana - DIEZ-DACAL, Beatriz - PÉREZ-SALA, Dolores - ŠOLTÉSOVÁ PRNOVÁ, Marta. Use of 5-carboxymethyl-3-mercapto-1,2,4-triazino-[5,6-B]indoles and their pharmaceutical composition : international publication number WO 2015/057175 A1. International publication date: 23 april 2015 (23.04.2015). Applicant: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava (SK). International patent classification: A61K 31/53 (2006.01). World Intellectual Property Organization, 2015.

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2015 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmlouvou súvisiacou s realizáciou patentu.

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

Tabuľka 2h Experti hodnotiaci národné projekty

| Meno pracovníka | Typ programu/projektu/výzvy | Počet hodnotených projektov |
|-------------------|-----------------------------|-----------------------------|
| Bauerová Katarína | APVV | 1 |
| | VEGA | 2 |
| Bezek Štefan | APVV | 8 |
| Jančinová Viera | VEGA | 1 |
| Juránek Ivo | APVV | 1 |
| | VEGA | 3 |
| Mach Mojmir | VEGA | 5 |
| Račková Lucia | VEGA | 1 |
| Štefek Milan | VEGA | 1 |

2.9. Účasť na spracovaní hesiel do encyklopédie Beliana

Počet autorov hesiel: 0

2.10. Iné informácie k vedeckej činnosti.

Ústav sa podieľal na procese celoakademického vzdelávania doktorandov formou prednášok, na ktorých sa zúčastňovali doktorandi z viacerých pracovísk Slovenskej akadémie vied.

Recenzie vedeckých článkov:Pažoureková Silvia

Interdisciplinary Toxicology 1x

Jančinová Viera

International Immunopharmacology 1x

Interdisciplinary Toxicology 1x

Mačičková Táňa

FEMS Microbiology Letters 1x

Interdisciplinary Toxicology 1x

Nosál Rado – 2xBauer Viktor

1x Interdisciplinary Toxicology

3x General Physiology and Biophysics

1x J. Physiology and Pharmacology

1x Journal of Natural Products

Gáspárová Zdenka

6x Neurochemical Research

2x Interdisciplinary Toxicology

Sotníková Ružena

1x Pharmacological Reports

1x Physiological Research

Ďurišová Mária

1x Journal of Pharmaceutics and Nanotechnology

Račková Lucia

Natural Product Research - 1x

Cellular and Molecular Neurobiology - 1x

Ujházy Eduard

Interdisciplinary Toxicology 1x

Bauerová Katarína

1x Physiological Research

1x Food Chemistry

1x Food and Function

1x Pharmacological Reports

Štefek Milan

Vyžiadané oponentské posudky na články v medzinárodných časopisoch: 5x

Mach Mojmir

Vyžiadané oponentské posudky na články v medzinárodných časopisoch: 8x

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

3.1. Údaje o doktorandskom štúdiu

Tabuľka 3a Počet doktorandov v roku 2015

| Forma | Počet k 31.12.2015 | | | | Počet ukončených doktorantúr v r. 2015 | | | | | |
|--------------------------------|--------------------|----|--------------------|---|--|---|---------------------|---|---------------------|---|
| | Doktorandi | | | | Ukončenie z dôvodov | | | | | |
| | celkový počet | | z toho novoprijatí | | ukončenie úspešnou obhajobou | | predčasné ukončenie | | neúspešné ukončenie | |
| | M | Ž | M | Ž | M | Ž | M | Ž | M | Ž |
| Interná zo zdrojov SAV | 2 | 11 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Interná z iných zdrojov | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Externá | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spolu | 3 | 11 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Súhrn | 14 | | 0 | | 2 | | 0 | | 0 | |

3.2. Zmena formy doktorandského štúdia

Tabuľka 3b Počty preradení

| Z formy | Interná z prostriedkov SAV | Interná z prostriedkov SAV | Interná z iných zdrojov | Interná z iných zdrojov | Externá | Externá |
|--------------|----------------------------|----------------------------|----------------------------|-------------------------|----------------------------|-------------------------|
| Do formy | Interná z iných zdrojov | Externá | Interná z prostriedkov SAV | Externá | Interná z prostriedkov SAV | Interná z iných zdrojov |
| Počet | 1 | 0 | 0 | 0 | 0 | 0 |

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2015 úspešnou obhajobou

| Meno doktoranda | Forma DŠ | Mesiac, rok nástupu na DŠ | Mesiac, rok obhajoby | Číslo a názov študijného odboru | Meno a organizácia školiteľa | Fakulta udeľujúca vedeckú hodnosť |
|-------------------------|--|----------------------------------|-----------------------------|--|--|--|
| Mgr. Natália Sedláčková | interné štúdium hradené z prostriedkov SAV | 9 / 2011 | 8 / 2015 | 7.3.2 farmakológia | RNDr. Mojmír Mach PhD., Ústav experimentálnej farmakológie a toxikológie SAV | Jesseniova lekárska fakulta UK v Martine |
| Ing. Marta Šoltésová | interné štúdium hradené z prostriedkov SAV | 9 / 2011 | 8 / 2015 | 4.1.22 biochémia | Ing. Milan Štefek CSc., Ústav experimentálnej farmakológie a toxikológie SAV | Fakulta chemickej a potravinárskej technológie STU |

Zoznam interných a externých doktorandov je uvedený v Prilohe A.

3.4. Zoznam akreditovaných študijných programov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných programov s uvedením univerzity/vysokej školy a fakulty

| Názov študijného programu (ŠP) | Názov študijného odboru (ŠO) | Číslo ŠO | Univerzita/vysoká škola a fakulta |
|--------------------------------|------------------------------|----------|--|
| | biochémia | 4.1.22 | Fakulta chemickej a potravinárskej technológie STU |
| | biochémia | 4.1.22 | Prírodovedecká fakulta UK |
| | farmakológia | 7.3.2 | Jesseniova lekárska fakulta UK v Martine |

Tabuľka 3e Účasť na pedagogickom procese

| Menný prehľad pracovníkov, ktorí boli menovaní do odborových komisií študijných programov doktorandského štúdia | Menný prehľad pracovníkov, ktorí pôsobili ako členovia vedeckých rád univerzít, správnych rád univerzít a fakúlt | Menný prehľad pracovníkov, ktorí získali vyššiu vedeckú, pedagogickú hodnotu alebo vyšší kvalifikačný stupeň |
|---|--|--|
| Prof. MUDr. Viktor Bauer, DrSc. (farmakológia) | | |
| PharmDr. Katarína Bauerová, PhD., DrSc. (farmakológia) | | |
| MVDr. Štefan Bezek, DrSc. (toxikológia) | | |
| RNDr. Ľubica Horáková, PhD. (biochémia) | | |
| prof. MUDr. Radomír Nosál, DrSc. (farmakológia) | | |
| Ing. Lucia Račková, PhD. (farmakognózia) | | |
| RNDr. Ružena Sotníková, PhD. (farmakológia) | | |
| Ing. Ladislav Šoltés, DrSc. (biochémia) | | |
| Doc. RNDr. Eduard Ujházy, CSc. (klinická farmakológia) | | |

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2015

| PEDAGOGICKÁ ČINNOSŤ | Prednášky | | Cvičenia a semináre | |
|--|-----------|-------------|---------------------|-------------|
| | doma | v zahraničí | doma | v zahraničí |
| Počet prednášateľov alebo vedúcich cvičení | 4 | 0 | 1 | 0 |
| Celkový počet hodín v r. 2015 | 50 | 0 | 10 | 0 |

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

Tabuľka 3g Aktivity pracovníkov na VŠ

| | | |
|----|---|----|
| 1. | Počet pracovníkov, ktorí pôsobili ako vedúci alebo konzultanti diplomových a bakalárskych prác | 10 |
| 2. | Počet vedených alebo konzultovaných diplomových a bakalárskych prác | 14 |
| 3. | Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.) | 6 |
| 4. | Počet školených doktorandov (aj pre iné inštitúcie) | 12 |
| 5. | Počet oponovaných dizertačných a habilitačných prác | 3 |
| 6. | Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce | 3 |
| 7. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác | 0 |
| 8. | Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác | 5 |
| 9. | Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách | 0 |

3.6. Iné dôležité informácie k pedagogickej činnosti

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2015 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2016 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

TOXCON 2016/TOXCON 2016, Stará Lesná, Vysoké Tatry, 200 účastníkov, 20.06.-22.06.2016, (Mojmír Mach, 02/ 5941 0664, mojmir.mach@savba.sk)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

| Typ výboru | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Počet členstiev | 1 | 0 | 0 |

4.2. Členstvo a funkcie v medzinárodných orgánoch

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

Prof. MUDr. Viktor Bauer, DrSc.

- Európska peptidergická spoločnosť (funkcia: člen)
- Európsky tachykinínový klub (funkcia: člen)
- Gastroenterologická sekcia IUPHAR (funkcia: člen)
- Maďarská akadémia vied (funkcia: člen komisie predsedu MAV pre zahraničných členov)
- The Federation of European Pharmacological Societies (funkcia: člen)
- The International Union of Basic and Clinical Pharmacology (funkcia: člen)

PharmDr. Katarína Bauerová, PhD., DrSc.

- European Pharmaceutical Federation (funkcia: člen)
- Pharmaceutical International Federation (funkcia: člen)

Ing. Zuzana Brnoliaková, PhD.

- The Federation of European Pharmacological Societies (funkcia: člen)
- The International Union of Basic and Clinical Pharmacology (funkcia: člen)

RNDr. Katarína Drábiková, PhD.

- International Union of Basic and Clinical Pharmacology (funkcia: člen)

PharmDr. František Dráfi, PhD.

Society for Free Radical Research-Europe (funkcia: člen)

RNDr. Michal Dubovický, CSc.

Association of European Toxicologists and European Societies of Toxicology EUROTOX (funkcia: člen)

Neurobehavioral Teratology Society (funkcia: člen)

Ing. Mária Ďurišová, DrSc.

Industry Gateway (funkcia: Člen medzinárodnej komisie)

International WHO'S WHO of Professionals (funkcia: člen)

The Science Advisory Board (funkcia: Člen medzinárodnej komisie)

RNDr. Ľubica Horáková, PhD.

Free Radical Research Society (funkcia: člen)

International HNE Club (funkcia: člen)

The Federation of European Pharmacological Societies (funkcia: člen)

The International Union of Basic and Clinical Pharmacology (funkcia: člen)

PharmDr. Viera Jančinová, PhD.

International Union of Basic and Clinical Pharmacology (funkcia: člen)

RNDr. Vladimír Knezl, PhD.

Európska toxikologická spoločnosť EUROTOX (funkcia: člen)

The Federation of European Pharmacological Societies (funkcia: člen)

The International Union of Basic and Clinical Pharmacology (funkcia: člen)

RNDr. Jana Lomenová, PhD.

FEBS (funkcia: Člen)

Society for Free Radical Research (SFRR) (funkcia: Člen)

RNDr. Tatiana Mačičková, CSc.

Association of European Toxicologists and European Societies of Toxicology EUROTOX (funkcia: člen)

Federation of the Societies of Biochemistry and Molecular Biology (funkcia: člen)

International Union of Basic and Clinical Pharmacology (funkcia: člen)

RNDr. Mojmír Mach, PhD.

Federation of European Toxicologists & European Societies of Toxicology EUROTOX (funkcia: člen Executive Committee)

Ing. Nataša Mrvová

Society for Free Radical Research (funkcia: člen)

Ing. Jana Navarová, PhD.

The Federation of European Pharmacological Societies (funkcia: člen)

Európska toxikologická spoločnosť EUROTOX (funkcia: člen)

The International Union of Basic and Clinical Pharmacology (funkcia: člen)

prof. MUDr. Radomír Nosál, DrSc.

European Histamine Research Society (funkcia: člen medzinárodného výboru a národný sekretár)

European Platelet Group (funkcia: člen medzinárodného výboru)

European Thrombosis Research Organisation (funkcia: člen)

International Union of Basic and Clinical Pharmacology (funkcia: člen)

RNDr. Jana Pečivová, PhD.

Federation of the Societies of Biochemistry and Molecular Biology (funkcia: člen)

International Union of Basic and Clinical Pharmacology (funkcia: člen)

Mgr. Tomáš Perečko, PhD.

International Union of Basic and Clinical Pharmacology (funkcia: člen)

PharmDr. Silvester Poništ, PhD.

Society for Free Radical Research-Europe (funkcia: člen)

Ing. Lucia Račková, PhD.

Society for Free Radical Research-Europe (funkcia: člen)

RNDr. Ružena Sotníková, PhD.

Európska toxikologická spoločnosť EUROTOX (funkcia: člen)

The Federation of European Pharmacological Societies (funkcia: člen)

The International Union of Basic and Clinical Pharmacology (funkcia: člen)

Ing. Ladislav Šoltés, DrSc.

ISHAS - International Society for Hyaluronan Sciences (funkcia: člen)

Ing. Milan Štefek, CSc.

The Federation of European Pharmacological Societies (funkcia: člen)

The International Union of Basic and Clinical Pharmacology (funkcia: člen)

Doc. RNDr. Eduard Ujházy, CSc.

Federation of European Toxicologists & European Societies of Toxicology EUROTOX
(funkcia: člen)

RNDr. Katarína Valachová, PhD.

International Society for Hyaluronan Sciences (funkcia: člen)

4.3. Účasť expertov na hodnotení medzinárodných projektov (EÚ RP, ESF a iných)

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

V roku 2015 pokračovala spolupráca Oddelenia bunkovej farmakológie ÚEFT SAV s pracovníkmi Biofyzikálneho ústavu AV ČR v Brne a Ústavu organickej chémie a biochémie AV ČR v Prahe. Uskutočnilo sa niekoľko spoločných experimentov a časť výsledkov spolupráce bola prezentovaná na medzinárodnej konferencii.

PEREČKO T., DRÁBIKOVÁ K., AMBROŽOVÁ G., LOJEK A., ČÍŽ M., NOSÁĽ R., HARMATHA J., JANČINOVÁ V. Comparison of anti-inflammatory potential of pterostilbene and pinosylvin in vitro and in vivo. European Journal of Clinical Investigation 45, Suppl 2, 2015, 60-61

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

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

5. Viedná politika

6. Spolupráca s univerzitami/vysokými školami, štátnymi a neziskovými inštitúciami okrem aktivít uvedených v kap. 2, 3, 4

6.1. Spolupráca s univerzitami/VŠ (fakultami)

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Katedra farmakognózie a botaniky a Katedra fyziológie a farmakológie FaFUK

Začiatok spolupráce: 2005

Zameranie: Účinok rastlinných extraktov a ich hlavných účinných látok na stav cievneho endotelu

Zhodnotenie: Testuje sa účinok rastlinných extraktov a ich hlavných účinných látok na stav cievneho endotelu.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektov VEGA a diplomová prax (Dr. Bauerová a kol.)

Začiatok spolupráce: 2005

Zameranie: Spolupráca s Katedrou farmakológie a toxikógie FaF UK

Zhodnotenie: S Ing. Paškovou sme zaviedli stanovenie expresie mRNA dôležitých cytokínov a proteínov v tkanivách artritických zvierat, čo umožní lepšie porozumieť mechanizmom terapeutického účinku študovaných experimentálnych látok a štandardných anti-reumatík. Sledovali sme účinok N-feruloylserotonínu (NF-5HT) a metotrexátu (MTX), na expresiu RNA iNOS, IL-1beta a TNF-alfa v pečeni potkanov s adjuvantnou artritídou. Aplikácia NF-5-HT v kombinovanej terapii s MTX by mohla prispieť k zníženiu zápalových procesov aj u pacientov s reumatoidnou artritídou.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): spoluriešitelia VEGA 2/0044/15: T. Čavojský, I. Paulíková, F. Bilka, L. Pašková

Začiatok spolupráce: 2015

Zameranie: Štúdium cholinesteráz v podmienkach zápalu

Zhodnotenie: Aktivita BuchE v pečeni, pľúcach a slezine zvierat s adjuvantnou artritídou bola analyzovaná a prvé výsledky publikované na medzinárodnej konferencii v Ankare. ČAVOJSKÝ, Tomáš - PAŠKOVÁ, Ľudmila - BILKA, František - SLOVÁK, Lukáš - BAUEROVÁ, Katarína - PAULÍKOVÁ, Ingrid. Study of cholinesterases under the inflammatory conditions. In 11th International Symposium on Pharmaceutical Sciences. Book of Abstracts : ISOPS. - Ankara : Ankara University Faculty of Pharmacy, 2015, p. 232-233. ISBN 978-605-136-221-2. APVV 0052-10, UK/296/2014, VEGA 2/0045/11, VEGA 2/0044/11, ITMS 26240220086. Typ: AFG

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

Druh spolupráce (spoločné pracovisko alebo iné): ÚEF SAV je externým školiacim pracoviskom Jesseniovej lekárskej fakulty UK v Martine

Začiatok spolupráce: 2005

Zameranie: doktorandské štúdium

Zhodnotenie: ÚEFT SAV je externá vzdelávacia inštitúcia spolupracujúca s Jesseniovou lekárskou fakultou UK v Martine v doktorandskom štúdiu v rámci študijného programu farmakológia

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Reumatologická ambulancia, V. interná klinika LF UK a UN Bratislava

Začiatok spolupráce: 2013

Zameranie: Riešenie spoločného projektu VEGA 2/0010/13

Zhodnotenie: Analýza aktivity neutrofilov u pacientov s reumatoidnou artritídou; získané výsledky sa budú korelovať s priebehom ochorenia a porovnávať s kontrolnými hodnotami zdravých darcov.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Riešenie spoločných projektov

Začiatok spolupráce: 2002

Zameranie: Morfometrická analýza štrukturálnych zmien v mozgu potkana

Zhodnotenie: Sledovanie štrukturálnych zmien mozgu potkana v modelových podmienkach ischémie alebo neurodegenerácie zamerané na štúdium účinku predpokladaných neuroprotektív slúži ako vhodný korelát funkčných zmien v hipokampe.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): spoločné pracovisko

Začiatok spolupráce: 2015

Zameranie: štúdium vzťahu medzi histológiou, vývinom a tumorigenézou mliečnej žľazy

Zhodnotenie: Spolupráca sa realizovala vo forme publikácie: Relationship between histology, development and tumorigenesis of mammary gland in female rat. (autori Ján Líška, Július Brtko, Michal Dubovický, Danica Mecejová, Viktória Kiššová, Štefan Polák, Eduard Ujházy. Experimental Animals JALAS (Japanese Association for Laboratory Animals)

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektov

Začiatok spolupráce: 2001

Zameranie: Ochrana novorodenca

Zhodnotenie: Spolupráca pri korelácií experimentálnych výsledkov a klinických poznatkov pri výskume nepriaznivých účinkov perinatálnej asfyxie a oxidačného stresu na novorodený organizmus.

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektov (Dr. Bauerová a kol.)

Začiatok spolupráce: 2005

Zameranie: Spolupráca s Ústavom patologickej anatómie LFUK, Bratislava v oblasti výskumu reumatoidnej artritídy

Zhodnotenie: Spolupráca s ÚPA LFUK existuje od r. 2005 (Prof. MUDr. Pavel Babál, CSc. a kol.). V modeli adjuvantnej artritídy sa sledovala redistribúcia granulocytov vo vybraných tkanivách. Súčasne sa analyzoval efekt metotrexátu na tieto zmeny. Výsledky sú sumárne spracované vo forme CC publikácií

Názov univerzity/vysokej školy a fakulty: Lekárska fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektov VEGA 2/0045/11 a APVV-51-017905 (Dr. Bauerová a kol.)

Začiatok spolupráce: 2007

Zameranie: Spolupráca s Farmakobiochemickým laboratóriom III. Internej kliniky LFUK

Zhodnotenie: Spolupráca s FBL III. Internej kliniky LFUK (Prof. Anna Gvozdjaková, DrSc a PharmDr. Jarmila Kucharská, CSc.) je zameraná na sledovanie energetiky mitochondrií vo vybraných tkanivách zvierat s adjuvantnou artritídou a na jej farmakoterapeutické ovplyvnenie.

Skúsenosti s terapiou glukomanánom boli v roku 2012 publikované v CC publikácii:BAUEROVÁ, Katarína - MIHALOVÁ, Danica - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - KUCHARSKÁ, Jarmila - PAULOVIČOVÁ, Ema - NOSÁL', Radomír - PONIŠT, Silvester. Effects of glucomannan isolated from *Candida utilis* on adjuvant arthritis in Lewis rats. In Current Topics in Nutraceutical Research : an international scientific journal of decision makers in nutraceutical industry, 2012, vol. 10, no. 1, p. 13-30. (0.286 - IF2011). (2012 - Current Contents). ISSN 1540-7535.

Názov univerzity/vysokej školy a fakulty: Prírodovedecká fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): ÚEFT SAV je externým školiacim pracoviskom Prírodovedeckej fakulty UK v Bratislave

Začiatok spolupráce: 2006

Zameranie: doktorandské štúdium

Zhodnotenie: ÚEFT SAV je externá vzdelávacia inštitúcia spolupracujúca s Prírodovedeckou fakultou UK v Bratislave v doktorandskom štúdiu v rámci študijného programu biochémia

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Katedra analytickej chémie, Laboratórium NMR a MS, nemocnica Kramáre (RNDr. Svatava Kašparová, PhD.

Začiatok spolupráce: 2009

Zameranie: Základný biomedicínsky výskum

Zhodnotenie: V rámci spolupráce sme hodnotili účinky podávania antidepresíva venlafaxínu počas gravidity a laktácie potkanov na vybrané mozgové metabolity ich potomstva po vystavení stresogénnej situácii. Výsledky ukázali, že dlhodobé podávanie venlafaxínu má vplyv na niektoré metabolity mozgu a tieto zmeny sa prejavili len po pôsobení stresu (napr. taurín, glutamát, N-acetyl-aspartát).

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektov VEGA a APVV

Začiatok spolupráce: 2002

Zameranie: Meranie a analýza ¹H-NMR spektier v extrakte mozgu a MR zobrazovanie mozgu

Zhodnotenie: Sledovanie obsahu metabolitov v ¹H-NMR spektrách v modelových podmienkach ischemie alebo neurodegenerácie mozgu potkana umožňuje charakterizovať zmenu obsahu kľúčových metabolitov, napr. N-acetyl-aspartátu, ktorý sa považuje za marker zdravia/poškodenia neurónov.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): ŠPEU ITMS 26240220040

Začiatok spolupráce: 2010

Zameranie: Štúdium modifikovaných flavonoidov pripravených firmou Bel/Novamann, International, s.r.o. v rámci projektu ŠPEU

Zhodnotenie: Hodnotenie prírodných látok flavonoidného charakteru a derivátov quercetínu na úrovni in vitro, ex vivo a in vivo pre prevenciu a liečbu civilizačných ochorení.

Názov univerzity/vysokej školy a fakulty: Fakulta chemickej a potravinárskej technológie STU

Druh spolupráce (spoločné pracovisko alebo iné): ÚEFT SAV je externým školiacim pracoviskom Fakulty chemickej a potravinárskej technológie STU v Bratislave

Začiatok spolupráce: 2008

Zameranie: doktorandské štúdium

Zhodnotenie: ÚEFT SAV je externá vzdelávacia inštitúcia spolupracujúca s FCHPT STU v doktorandskom štúdiu v rámci študijného programu biochémia

Názov univerzity/vysokej školy a fakulty: Strojnícka fakulta STU

Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca pri zavádzaní nových metód pre matematické modelovanie v biomedicíne s dôrazom na farmakokinetiku

Začiatok spolupráce: 1993

Zameranie: Vývoj a aplikácie metód vychádzajúcich z teórie dynamických systémov na riešenie aktuálnych úloh vo farmakokinetike

Zhodnotenie: Od začatia spolupráce partneri: 1) publikovali viac ako 35 vedeckých prác v plnom rozsahu v periodikách evidovaných v Current Contents; 2) pracovali v: Network of Excellence Biosim, 6 FP - EU; 3) pracovali v akcii programu COST: Modelling During Drug Development; 4) pracovali v akcii programu COST: Drug Development for Parasitic Diseases; 5) pracovali v akcii programu COST: Physiologically based Pharmacokinetics and Dynamics.

Názov univerzity/vysokej školy a fakulty: Univerzita sv. Cyrila a Metoda v Trnave

Druh spolupráce (spoločné pracovisko alebo iné): Fakulta prírodných vied - podaný spoločný návrh projektu APVV

Začiatok spolupráce: 2015

Zameranie: príprava nových derivátov flavonoidov a ich testovanie na modeli pankreatických beta-buniek

Zhodnotenie:

Názov univerzity/vysokej školy a fakulty: Univerzita sv. Cyrila a Metoda v Trnave

Druh spolupráce (spoločné pracovisko alebo iné): Omics4Health

Začiatok spolupráce: 2013

Zameranie: : Integrovanie výskumno-vývojových kapacít pri účinnej vedeckej spolupráci v oblasti chemických vied, biologických vied, lekárskech a farmaceutických vied, bioinformatiky, chemického inžinierstva, farmaceutickej chémie, farmakológie a toxikológie.

Zhodnotenie: Vypracovanie stanov spolupráce.

Názov univerzity/vysokej školy a fakulty: Polymer Materials Research Department, Advanced Technologies and New Materials Research Institute (A

Druh spolupráce (spoločné pracovisko alebo iné): Spolupráca na patente

Začiatok spolupráce: 2013

Zameranie: Hodnotenie protektívnych účinkov chitosanu

Zhodnotenie: Hodnotenie protektívnych účinkov chitosanu a jeho derivátov pomocou rotačnej viskozimetrie a ABTS metódy. Valachova K., Tamer M. T., Soltes L. Comparison of free-radical scavenging properties of glutathione under neutral and acidic conditions. In.: "Chemistry, Biochemistry and Biology, New Achievements": Theory and Practices, G. E. Zaikov, A. K. Haghi, R. Jozwik (eds), Apple Academic Press, Taylor & Francis Group, Toronto, USA, in press.

6.2. Významné aplikácie výsledkov výskumu v spoločenskej praxi alebo vyriešenie problému pre štátnu alebo neziskovú inštitúciu

6.3. Iná činnosť využiteľná pre potreby spoločenskej praxe

7. Spolupráca s aplikačnou a hospodárskou sférou okrem aktivít uvedených v kap. 2, 3, 4

7.1. Spoločné pracoviská s aplikačnou sférou

Názov pracoviska: Omics4Health

Partner(i): CHÚ SAV Bratislava; Univerzita Cyrila a Metoda, Trnava; Saneca Pharmaceuticals a.s.; HighChem, s.r.o.; Tau-chem, s.r.o.

Zameranie: Ide o združenie, ktoré spája subjekty univerzít, ústavov Slovenskej akadémie vied, SME firiem zameraných na výskum a inovácie v oblasti vývoja a prípravy látok s farmakoterapeutickým potenciálom.

Rok založenia: 2014

Zhodnotenie: V Stratégii VaV 2020 sa zdôrazňujú spoločné aktivity základného a aplikovaného výskumu s priemyselnými podnikateľskými subjektami. V tejto súvislosti sa ÚEFT SAV v zastúpení riaditeľom RNDr. M. Dubovickým PhD. a MVDr. Š. Bezekom DrSc. aktívne spolupodieľal na založení klastra OMICS4HEALTH so Saneca Pharmaceuticals a.s., HighChem s.r.o., Tau-Chem, s.r.o., Fakultou prírodných vied Univerzity sv. Cyrila a Metoda v Trnave a CHÚ SAV.

Ciele klastru:

- Vytvorenie konzorcia a dobudovanie infraštruktúry pracovísk partnerov pre realizáciu výskumu a vývoja medzi akademickou a podnikateľskou sférou, v súlade so stratégiou RIS3 s uvažovaním finančnej podpory v rámci OP Výskum a inovácie, programov podporovaných MŠVVV SR a projektov v rámci výziev Horizon2020.
- vývoj a aplikácia analytických postupov na identifikáciu primárnych metabolitov človeka a sekundárnych metabolitov rastlín a mikroorganizmov, metabolická analýza,
- vývoj bioinformatických riešení pre identifikáciu neznámych látok, metabolickú analýzu a farmakológiu,
- vývoj technológie izolácie a koncentrácie prírodných látok z vybraných rastlín a mikroorganizmov,
- vývoj syntézy a syntéza komerčne nedostupných primárnych a sekundárnych metabolitov a vývoj metód chemickej transformácie prírodných látok na biologicky aktívne látky,
- predklinické testy aktivity, toxicity a ADME izolovaných alebo syntetizovaných látok,
- vývoj biotechnologických a chemických postupov za účelom priemyselného získavania biologicky aktívnych látok alebo ich prekursorov, jednak pre špeciálne farmaceutické využitie, ako aj komponentov výživových doplnkov, funkčných potravín, nutraceutík a kozmeceutík,
- výchova odborníkov v rozvíjajúcich sa vedných oboroch biomedicínskeho a farmaceutického výskumu,
- podpora inovatívnych malých a stredných podnikov (SME) v oblasti biomedicínskeho výskumu a farmaceutického priemyslu.

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

Názov kontraktu: ZMLUVA O BUDÚCEJ ZMLUVE: Výskum a vývoj liečiva s komplexným účinkom na liečbu metabolického syndrómu (hypertenzia, dyslipidémia, diabetes) a vypracovanie predklinickej dokumentácie liečiva.

Partner(i): CHÚ SAV Bratislava, Saneca Pharmaceuticals a.s., Nitrianska 100, Hlohovec

Začiatok spolupráce (v súlade s podpísaným kontraktom): 2013

Stručný opis výstupu/výsledku: Vypracovanie predklinickej dokumentácie liečiva na terapiu metabolického syndrómu.

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Produkcia hyperimúnnych sér u králikov. BioVendor Laboratorní medicina, a.s. Brno, ČR. Objem získaných prostriedkov : **43 000 EUR**

Overenie účinnosti antiadhezívnych prostriedkov u potkanov. Contipro Biotech, spol. s r. o., Dolní Dobrouč, ČR. Objem získaných prostriedkov : **3 550 EUR**

Produkcia laboratórnych zvierat a kŕmnych diét. Pracoviská SAV, vysoké školy a iné. Objem získaných prostriedkov : **54 000 EUR**

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

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

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

| Meno pracovníka | Názov orgánu | Funkcia |
|----------------------------------|---|--------------------|
| prof. MUDr. Radomír Nosál, DrSc. | Agentúra Ministerstva školstva SR pre štrukturálne fondy EÚ | externý hodnotiteľ |

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

Názov expertízy: Člen školiaceho tímu

Adresát expertízy: Štátna veterinárna a potravinová správa SR

Spracoval: RNDr. Mojmír Mach, PhD.

Stručný opis: Člen školiaceho tímu ŠVPS SR, ktorý sa podieľa na zvyšovaní kvalifikácie vedeckých a technických pracovníkov vo výskume.

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

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

9.1.1. Najvýznamnejšia vedecko-popularizačná činnosť pracovníkov organizácie SAV

Tabuľka 9a Vedecko-popularizačná činnosť pracovníkov organizácie SAV

| Meno | Spoluautori | Typ ¹ | Názov | Miesto zverejnenia | Dátum alebo počet za rok |
|---------------------------------|-----------------------------------|------------------|--|---|--------------------------|
| Prof. MUDr. Viktor Bauer, DrSc. | | TV | Alopatia/homeopatia | Maďarské vysielanie STV | 10.6.2015 |
| Prof. MUDr. Viktor Bauer, DrSc. | | TV | Prírodné liečivá – problém s tzv. Čínskou prírodnou medicínou | Maďarské vysielanie STV | 12.7.2015 |
| Mgr. Barbara Kaprinay | Sotníková Ružena | PB | Deň otvorených dverí | ÚEFT SAV | 11.11.2015 |
| RNDr. Tatiana Mačičková, CSc. | | PB | Európsky týždeň vedy a techniky | ÚEFT SAV | 18.11.2015 |
| RNDr. Magdaléna Májeková, PhD. | M.Šoltésova Prnová, P.Rezbáriková | PB | Týždeň vedy a techniky 2015 | ÚEFT SAV | 10.11.2015 |
| Doc. RNDr. Eduard Ujházy, CSc. | | PB | AKO SA ŠTUDUJÚ NEŽIADÚCE ÚČINKY LIEČIV? TOXIKOLÓGIA A TERATOLÓGIA. | Európsky týždeň vedy a techniky Bratislava – ÚEFT SAV | 18.11.2015 |

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

9.1.2. Súhrnné počty vedecko-popularizačných činností organizácie SAV

Tabuľka 9b Súhrnné počty vedecko-popularizačných činností organizácie SAV

| Typ | Počet | Typ | Počet | Typ | Počet |
|------------------|-------|----------------------|-------|--------------------|-------|
| prednášky/besedy | 4 | tlač | 0 | TV | 2 |
| rozhlas | 0 | internet | 0 | exkurzie | 0 |
| publikácie | 0 | multimediálne nosiče | 0 | dokumentárne filmy | 0 |
| iné | 0 | | | | |

9.2. Vedecko-organizačná činnosť

9.3. Účasť na výstavách

9.4. Účasť v programových a organizačných výboroch národných konferencií

Tabuľka 9d Programové a organizačné výbory národných konferencií

| Typ výboru | Programový | Organizačný | Programový i organizačný |
|-----------------|------------|-------------|--------------------------|
| Počet členstiev | 0 | 0 | 0 |

9.5. Členstvo v redakčných radách časopisov

Prof. MUDr. Viktor Bauer, DrSc.

Bratislava Medical Journal (funkcia: Člen Editorial Board)
Collecta Clausiana (funkcia: člen redakčnej rady)
General Physiology and Biophysics (funkcia: Editor)
Interdisciplinary Toxicology (funkcia: člen Editorial Board)
Természet Világa (funkcia: člen Editorial Board)
Turkiye Klinikleri Journals (funkcia: člen Editorial Board)

MVDr. Štefan Bezek, DrSc.

Interdisciplinary Toxicology (funkcia: Editorial Board)

RNDr. Michal Dubovický, CSc.

Activitas Nervosa Superior Rediviva (funkcia: člen Editorial Board)
Interdisciplinary Toxicology (funkcia: Editor-in-chief)
Neuroendocrinology Letters (funkcia: Field Editor)

Ing. Mária Ďurišová, DrSc.

International Journal of Clinical Research and Drug Development Synconsys Publications
(funkcia: člen Editorial Board)

RNDr. Ivo Juránek, PhD., DrSc.

General Physiology and Biophysics (funkcia: Field-Editor)

RNDr. Mojmír Mach, PhD.

Activitas Nervosa Superior Rediviva (funkcia: člen Editorial Board)
Interdisciplinary Toxicology (funkcia: Výkonný redaktor)
International Journal of Occupational Medicine and Environmental Health (funkcia: Člen Editorial Board)
Neuroendocrinology Letters (funkcia: člen Editorial Board)

Ing. Jana Navarová, PhD.

General Physiology and Biophysics (funkcia: Field Editor)
Interdisciplinary Toxicology (funkcia: člen Advisory Board)
Neuroendocrinology Letters (funkcia: Field Editor)

prof. MUDr. Radomír Nosál, DrSc.

Interdisciplinary Toxicology (funkcia: člen Advisory Board)

RNDr. Ružena Sotníková, PhD.

Interdisciplinary Toxicology (funkcia: člen Editorial Board)

Ing. Ladislav Šoltés, DrSc.

Interdisciplinary Toxicology (funkcia: člen Editorial Board)

Ing. Milan Štefek, CSc.

International Journal of Clinical Research and Drug Development Synconsys Publications
(funkcia: člen Editorial Board)

Doc. RNDr. Eduard Ujházy, CSc.

Activitas Nervosa Superior Rediviva (funkcia: člen Editorial Board)
Interdisciplinary Toxicology (funkcia: člen Editorial Advisory Board)

9.6. Činnosť v domácich vedeckých spoločnostiach

Prof. MUDr. Viktor Bauer, DrSc.

Fyziologická spoločnosť SLS (funkcia: člen)
Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)

PharmDr. Katarína Bauerová, PhD., DrSc.

Slovenská farmaceutická spoločnosť (funkcia: člen výboru)
Slovenská farmakologická spoločnosť (funkcia: člen výboru)
Slovenská spoločnosť klinickej farmakológie (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)
Spolok farmaceutov v Bratislave (funkcia: člen)

MVDr. Štefan Bezek, DrSc.

APVV (funkcia: Člen rady APVV pre lekárske vedy)

Ing. Zuzana Brnoliaková, PhD.

Slovenská diabetologická spoločnosť (funkcia: člen)
Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Katarína Drábiková, PhD.

Slovenská farmaceutická spoločnosť (funkcia: člen)
Slovenská farmakologická spoločnosť (funkcia: člen)

PharmDr. František Dráfi, PhD.

Slovenská farmaceutická spoločnosť (funkcia: člen)
Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Michal Dubovický, CSc.

Slovenská toxikologická spoločnosť SETOX (funkcia: Prezident spoločnosti)

MVDr. Andrej Gajdošík

Spoločnosť pre vedu o laboratórnych zvieratách (funkcia: Predseda)

RNDr. Zdenka Gáspárová, PhD.

Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Ľubica Horáková, PhD.

Slovenská biochemická spoločnosť (funkcia: člen)
Slovenská farmakologická spoločnosť (funkcia: člen)

PharmDr. Viera Jančinová, PhD.

Slovenská farmakologická spoločnosť (funkcia: člen)

RNDr. Ivo Juránek, PhD., DrSc.

Panel hodnotiteľov mladých vedeckých pracovníkov SAV (funkcia: člen)

RNDr. Vladimír Knezl, PhD.

Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Jana Lomenová, PhD.

Slovenská spoločnosť pre biochémiu a molekulárnu biológiu (SSBMB) (funkcia: Člen)

RNDr. Tatiana Mačičková, CSc.

Slovenská farmakologická spoločnosť (funkcia: člen)
Slovenská spoločnosť pre biochémiu a molekulárnu biológiu pri SAV (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Mojmír Mach, PhD.

Slovenská toxikologická spoločnosť SETOX (funkcia: tajomník spoločnosti)

RNDr. Magdaléna Májeková, PhD.

Fond Petra Fedora (funkcia: Členka Rady)
Slovenská chemická spoločnosť (funkcia: podpredseda odbornej skupiny Medicínska chémia)

Ing. Jana Navarová, PhD.

Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: Prezident)

prof. MUDr. Radomír Nosál, DrSc.

Fyziologická spoločnosť SLS (funkcia: člen)
SAVOL (Spoločnosť autorov vedeckej a odbornej literatúry) (funkcia: člen výkonného výboru)
Slovenská farmakologická spoločnosť pri SLS (funkcia: člen výboru)
Slovenská toxikologická spoločnosť SETOX (funkcia: Člen)

RNDr. Jana Pečivová, PhD.

Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská spoločnosť pre biochémiu a molekulárnu biológiu pri SAV (funkcia: člen)
Slovenská spoločnosť pre biochémiu pri SAV (funkcia: člen)

Mgr. Tomáš Perečko, PhD.

Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)

PharmDr. Silvester Poništ, PhD.

Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

Ing. Lucia Račková, PhD.

Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

RNDr. Ružena Sotníková, PhD.

Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)
Slovenská fyziologická spoločnosť (funkcia: člen)
Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

Ing. Milan Štefek, CSc.

Slovenská diabetologická spoločnosť (funkcia: člen)
Slovenská farmakologická spoločnosť pri SLS (funkcia: člen)

Doc. RNDr. Eduard Ujházy, CSc.

Slovenská toxikologická spoločnosť SETOX (funkcia: Viceprezident)
Spoločnosť pre vedu o laboratórnych zvieratách (funkcia: člen)

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

Prof. MUDr. Viktor Bauer, DrSc.

Oponent prác Študentskej odbornej činnosti a vedúci komisie na ich obhajobu v súťaži 7. ročníka TUDOK

Gáspárová, Zdenka

Členka Etickej komisie ÚEFT SAV

Knezl, Vladimír

Člen komisie pre Biologickú olympiádu kategória E, vypracovanie testov pre okresné, krajské a celoslovenské kolo, člen hodnotiacej komisie v celoslovenskom kole

Sotníková, Ružena

Členka Etickej komisie FaFUK

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

| | | |
|--|---|------|
| Knižničné jednotky spolu | | 6236 |
| z toho | knihy a zviazané periodiká | 6236 |
| | audiovizuálne dokumenty | 0 |
| | elektronické dokumenty (vrátane digitálnych) | 0 |
| | mikroformy | 0 |
| | iné špeciálne dokumenty - dizertácie, výskumné správy | 0 |
| Počet titulov dochádzajúcich periodík | | 3 |
| z toho zahraničné periodiká | | 0 |
| Ročný prírastok knižničných jednotiek | | 1 |
| v tom | kúpou | 1 |
| | darom | 0 |
| | výmenou | 0 |
| | bezodplatným prevodom | 0 |
| Úbytky knižničných jednotiek | | 0 |
| Knižničné jednotky spracované automatizovane | | 49 |

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

| | | |
|----------------------------------|----------------------------------|-----|
| Výpožičky spolu | | 466 |
| z toho | odborná literatúra pre dospelých | 252 |
| | výpožičky periodík | 21 |
| | prezenčné výpožičky | 193 |
| MVS iným knižniciam | | 5 |
| MVS z iných knižníc | | 40 |
| MMVS iným knižniciam | | 1 |
| MMVS z iných knižníc | | 2 |
| Počet vypracovaných bibliografií | | 0 |
| Počet vypracovaných rešerší | | 51 |

10.3. Používatelia

Tabuľka 10c Užívatelia

| | |
|--|-----|
| Registrovaní používatelia | 62 |
| Návštevníci knižnice spolu (bez návštevníkov podujatí) | 152 |

10.4. Iné údaje

Tabuľka 10d Iné údaje

| | |
|---|--------|
| On-line katalóg knižnice na internete (1=áno, 0=nie) | 0 |
| Náklady na nákup knižničného fondu v € | 158,58 |

10.5. Iné informácie o knižničnej činnosti

Počas celého roka poskytuje knižnica základné i špeciálne knižnično-informačné služby pre používateľov

- výpožičné služby: absenčné, prezenčné a medziknižničnú výpožičnú službu zo SR i ČR,
- konzultačné a rešeršné služby (personálne výstupy z citačných databáz a databázy EPCA).

Pracovníčky knižnice spracovávajú publikačnú činnosť pracovníkov ústavu v automatizovanom knižničnom systéme ARL. V roku 2015 bolo elektronicky spracovaných **169** záznamov vedeckých prác.

K publikačnej činnosti pracovníkov spracovávajú i ohlasy na všetky práce pracovníkov ústavu. Za rok 2014 bolo **841** citácií v 351 vedeckých prácach.

Pracovníčka knižnice pravidelne rozosiela elektronickou poštou vedeckým pracovníkom informácie z ÚK SAV o novinkách v oblasti elektronických informačných zdrojov, skúšobných prístupoch do databáz, ponuky dovozu nových kníh z vydavateľstiev, výstavkách literatúry.

Doktorandom ústavu poskytuje konzultácie o vyhľadávaní v elektronických informačných zdrojoch a on-line katalógoch knižníc.

Pracovníčky knižnice spolupracujú vo svojej činnosti s pracovníčkami Ústrednej knižnice SAV, absolvujú konzultácie a školenia v oblasti EPCA a iných elektronických databáz.

11. Aktivity v orgánoch SAV

11.1. Členstvo vo Výbore Snemu SAV

11.2. Členstvo v Predsedníctve SAV a vo Vedeckej rade SAV

11.3. Členstvo vo vedeckých kolégiách SAV

RNDr. Michal Dubovický, CSc.

- VK SAV pre lekárske vedy (člen)

11.4. Členstvo v komisiách SAV

PharmDr. Katarína Bauerová, PhD., DrSc.

- Etická komisia SAV (člen)

RNDr. Michal Dubovický, CSc.

- Porota pre udeľovanie Medzinárodnej ceny SAV (člen)

prof. MUDr. Radomír Nosál, DrSc.

- Etická komisia SAV (člen)

Ing. Ladislav Šoltés, DrSc.

- Komisia SAV pre zahraničné styky (člen)

11.5. Členstvo v orgánoch VEGA

prof. MUDr. Radomír Nosál, DrSc.

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

- Ústredná komisia VEGA (Člen predsedníctva)

Ing. Milan Štefek, CSc.

- Komisia VEGA č. 3 pre chemické vedy, chemické inžinierstvo a biotechnológie (člen)

12. Hospodárenie organizácie

12.1. Výdavky RO SAV

Tabuľka 12a Výdavky RO SAV (v €)

| V ý d a v k y | Skutočnosť k 31.12.2015 spolu | v tom: | | | |
|---|-------------------------------------|---------|-----------------------------------|------------------------|-----------------------------------|
| | | zo ŠR | z toho: | z mimorozp. zdrojov | z toho: |
| | | | ŠF EÚ vr. spolufina n.zo ŠR | | ŠF EÚ vr. spolufinan.z o ŠR |
| Výdavky spolu | 1118142 | 1108764 | - | 9378 | 3258 |
| Bežné výdavky | 1118142 | 1108764 | - | - | - |
| v tom: | | | | | |
| mzdy (610) | 553727 | 551312 | - | 2415 | 2415 |
| poistné a príspevok do poisťovní (620) | 188932 | 188089 | - | 842 | 842 |
| tovary a služby (630) | 261275 | 255154 | - | 6121 | - |
| z toho: časopisy | 4158 | 4158 | - | - | - |
| VEGA projekty | 93657 | 93657 | - | - | - |
| MVTS projekty | 15000 | 15000 | - | - | - |
| CE | - | - | - | - | - |
| vedecká výchova | 114208 | 114208 | - | - | - |
| bežné transfery (640) | 107488 | 107488 | - | - | - |
| z toho: štipendiá | 107488 | 107488 | - | - | - |
| transfery partnerom projektov | - | - | - | - | - |
| Kapitálové výdavky | - | - | - | - | - |
| v tom: | | | | | |
| obstarávanie kapitálových aktív | | | | | |
| kapitálové transfery | | | | | |
| z toho: transfery partnerom projektov | | | | | |

12.2. Príjmy RO SAV

Tabuľka 12b Príjmy RO SAV (v €)

| P r í j m y | Skutočnosť k 31.12.2015 spolu | v tom: | |
|---|--|-------------------|--------------------------------|
| | | rozpočtové | z mimorozp. zdrojov |
| Príjmy spolu | 111253 | 111253 | - |
| Nedaňové príjmy | 111253 | 111253 | - |
| v tom: | - | - | - |
| príjmy z prenájmu | 8496 | 8496 | - |
| príjmy z predaja výrobkov a služieb | 102757 | 102757 | - |
| iné | - | - | - |
| Granty a transfery (mimo zdroja 111) | 9379 | - | 9379 |
| v tom: | | - | - |
| tuzemské | 9379 | - | 9379 |
| z toho: APVV | - | - | - |
| iné | - | - | - |
| zahraničné | - | - | - |
| z toho: projekty rámcového programu EÚ | 3258 | - | 3258 |
| iné | - | - | - |

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

1.

Oddelenie toxikológie a chovu laboratórnych zvierat ÚEFT SAV detašované na Dobrej Vode produkuje a dodáva záujemcom z ústavov SAV a vysokých škôl malé laboratórne zvieratá a certifikované peletované krmivo. Detašované pracovisko je schopné vykonávať testy a toxikologické expertízy podľa kritérií OECD. Venuje sa tiež produkcii hyperimunných sér z krvi experimentálnych zvierat v spolupráci so zahraničnými partnermi (BIOVENDOR, ČR, ScioTek, Rakúsko).

2.

ÚEFT SAV je držiteľom certifikátu práce v súlade so Správnou laboratórnou praxou (SLP) v Oddelení toxikológie a chovu laboratórnych zvierat na Dobrej Vode, v Laboratóriu vývinovej a behaviorálnej toxikológie a Laboratóriu bunkových kultúr v Bratislave. Osvedčenie o súlade so SLP č. G-031 vydala Slovenská národná akreditačná služba. Oddelenia dodržiavajú zásady SLP podľa Zákona č. 163/2001 Z. z. o chemických látkach a chemických prípravkoch v znení neskorších predpisov a v súlade s Direktívou 2004/10/EC Európskeho parlamentu a Rady.

Typ štúdií: toxikologické štúdie *in vivo* a *in vitro* a štúdie farmakologickej bezpečnosti liečiv.

Typy látok: humánne a veterinárne lieky a liečivá, kozmetické látky, potravinové doplnky, priemyselné chemické látky a prípravky, biocídy.

Testovacie pracovisko je zaradené do Národného programu dodržiavania zásad SLP monitorovaného Slovenskou národnou akreditačnou službou. Osvedčenie má platnosť do 13. 12. 2017

3.

ÚEFT SAV v spolupráci so Slovenskou toxikologickou spoločnosťou SETOX vydáva recenzovaný medzinárodný vedecký časopis *Interdisciplinary Toxicology (ITx)*. Časopis je zameraný na publikovanie pôvodných a prehľadných článkov z oblasti experimentálnej, klinickej a priemyselnej toxikológie a príbuzných biomedicínskych disciplín. ITx je registrovaný vo viacerých vedeckých databázach, ako napríklad PubMed, PubMed Central, SCOPUS, Animal Science Database, Veterinary Science Database, Environmental Engineering Abstracts, Pollution Abstracts, Sustainability Science Abstracts, Toxicology Abstracts, Food Science and Technology Abstracts – FSTA.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2015

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

15.1.2. Iné domáce ocenenia

Dubovický Michal

Prémia Literárneho fondu

Oceňovateľ: Literárny fond

Opis: Monografia „Teratológia: Princípy a hodnotenie abnormálneho vývinu“, autorov : E. Ujházy, M. Dubovický, M. Mach bola ocenená prémieou Literárneho fondu - 3. 9. 2015.

Mach Mojmir

Prémia Literárneho fondu

Oceňovateľ: Literárny fond

Opis: Monografia „Teratológia: Princípy a hodnotenie abnormálneho vývinu“, autorov : E. Ujházy, M. Dubovický, M. Mach bola ocenená prémieou Literárneho fondu - 3. 9. 2015.

Mrvová Nataša

Ocenenie v sekcii Bunkový metabolizmus, fyziológia, molekulárna biológia a genetika

Oceňovateľ: Preveda 2015

Opis: Mrvová, N, Kuniaková, M, Račková, L. Charakterizácia podpornej gliovej vrstvy izolovanej z rôzne starých potkanov kmeňa Wistar.

Ráčková Lucia

1. miesto ŠVOČ 2015

Oceňovateľ: FChPT STU

Opis: Pod vedením školiteľky Ing. Račkovej získanie 1. miesta v ŠVOČ 2015 za prácu: Škandík, M, Mrvová, N, Račková, L. Cytotoxicita a protizápalový potenciál syntetického derivátu kvercetínu v bunkovom modeli neuroglií

Ujházy Eduard

Prémia Literárneho fondu

Oceňovateľ: Literárny fond

Opis: Monografia „Teratológia: Princípy a hodnotenie abnormálneho vývinu“, autorov : E. Ujházy, M. Dubovický, M. Mach bola ocenená prémieou Literárneho fondu - 3. 9. 2015.

15.2. Medzinárodné ocenenia

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

17. Problémy a podnety pre činnosť SAV

Hlavným a chronickým problémom ÚEFT SAV je nedostatok stavebných investičných prostriedkov, ktoré je nevyhnutne nutné investovať do Oddelenia toxikológie a chovu laboratórnych zvierat detašované na Dobrej Vode. Toto zariadenie je jedinečné na Slovensku, ako jediné pracovisko svojho druhu vlastní certifikát na prácu v súlade so Správnou laboratórnou praxou podieľa sa ako na základnom, tak aj aplikovanom výskume. V súčasnosti je Oddelenie schopné produkovať finančný zisk, najmä zo zahraničných zakázok. Bohužiaľ vzhľadom na mnohé havarijné stavy, nie je možné uspokojiť zvýšené požiadavky odberateľov, rovnako rozšíriť chovy zvierat o špecializované druhy, po ktorých je dopyt aj v SAV. Navýšenie finančných prostriedkov na bežnú prevádzku by umožnilo využívať vlastné získané prostriedky z predaja zvierat a iných aktivít na postupnú revitalizáciu a rozvoj pracoviska. Ústav sa opakovane uchádzal a získanie finančných prostriedkov zo ŠF EÚ a je pripravený na nové výzvy na predkladanie projektov financovaných zo ŠF EÚ

Ústav pravidelne a dlhodobo žiada P SAV o navýšenie finančných prostriedkov za účelom uhradenia zákonom stanovenej čiastky na stravné lístky zamestnancov, nakoľko z prevádzkových nákladov ústavu a sociálneho fondu to nie je dostačujúce. Žiadame pravidelne, dlhodobo a zbytočne. P SAV aby sa tomuto problému malo venovať, lebo sa to pravdepodobne týka viacerých akademických ústavov.

Ústav má negatívne skúsenosti v komunikácii s P SAV a Ú SAV. Ide hlavne o chronický problém, kedy zodpovední pracovníci P SAV a/alebo Ú SAV neopovedajú/nereagujú na oficiálne písomné žiadosti a prosby odoslané z ústavu. Podobné skúsenosti majú aj iné organizácie SAV. Problém sa ťahá a prechádza z jedného P SAV na nasledujúce, napriek tomu, že v predvolebnom období je zo strany kandidátov do P SAV prísľub, že sa táto situácia v novom P SAV zmení. Reagovať na oficiálny list oficiálnou odpoveďou je základom „štábovej kultúry“ akejkoľvek organizácie. Žiadame zmenu v tejto oblasti s cieľom zlepšiť vzájomnú komunikáciu.

Správu o činnosti organizácie SAV spracoval(i):

RNDr. Mojmír Mach, PhD., 02/ 5941 0664

Riaditeľ organizácie SAV

Predseda vedeckej rady

.....
RNDr. Michal Dubovický, CSc.

.....
Ing. Milan Štefek, CSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2015****Zoznam zamestnancov podľa štruktúry (nadväzne na údaje v Tabuľke 1a)**

| | Meno s titulmi | Úväzok (v %) | Ročný prepočítaný úväzok |
|---|---|-----------------|-----------------------------|
| Vedúci vedeckí pracovníci DrSc. | | | |
| 1. | Prof. MUDr. Viktor Bauer, DrSc. | 0 | 0.00 |
| 2. | PharmDr. Katarína Bauerová, PhD., DrSc. | 100 | 1.00 |
| 3. | MVDr. Štefan Bezek, DrSc. | 100 | 1.00 |
| 4. | Ing. Mária Ďurišová, DrSc. | 40 | 0.40 |
| 5. | RNDr. Ivo Juránek, PhD., DrSc. | 100 | 1.00 |
| 6. | prof. MUDr. Radomír Nosál, DrSc. | 50 | 0.50 |
| 7. | Ing. Ladislav Šoltés, DrSc. | 100 | 1.00 |
| Vedúci vedeckí pracovníci CSc., PhD. | | | |
| 1. | Ing. Milan Štefek, CSc. | 100 | 1.00 |
| 2. | Doc. RNDr. Eduard Ujházy, CSc. | 60 | 0.60 |
| Samostatní vedeckí pracovníci | | | |
| 1. | RNDr. Dušan Blaškovič, PhD. | 100 | 1.00 |
| 2. | Ing. Zuzana Brnoliaková, PhD. | 100 | 1.00 |
| 3. | RNDr. Katarína Drábiková, PhD. | 80 | 0.80 |
| 4. | RNDr. Michal Dubovický, CSc. | 100 | 1.00 |
| 5. | RNDr. Zdenka Gáspárová, PhD. | 100 | 1.00 |
| 6. | RNDr. Ľubica Horáková, PhD. | 90 | 0.90 |
| 7. | PharmDr. Viera Jančinová, PhD. | 100 | 1.00 |
| 8. | RNDr. Vladimír Knezl, PhD. | 40 | 0.40 |
| 9. | RNDr. Tatiana Mačičková, CSc. | 90 | 0.90 |
| 10. | RNDr. Mojmír Mach, PhD. | 100 | 1.00 |
| 11. | RNDr. Magdaléna Májeková, PhD. | 100 | 1.00 |
| 12. | Mgr. Tomáš Perečko, PhD. | 100 | 1.00 |
| 13. | PharmDr. Silvester Poništ, PhD. | 20 | 0.20 |
| 14. | Ing. Lucia Račková, PhD. | 100 | 1.00 |
| 15. | RNDr. Ružena Sotníková, PhD. | 40 | 0.40 |
| 16. | RNDr. Katarína Valachová, PhD. | 100 | 1.00 |
| Vedeckí pracovníci | | | |
| 1. | PharmDr. František Dráfi, PhD. | 20 | 0.20 |

| | | | |
|--|--------------------------------------|-----|------|
| 2. | RNDr. Lucia Kováčiková, PhD. | 100 | 1.00 |
| 3. | Mgr. Viera Kuncírová, PhD. | 20 | 0.20 |
| 4. | RNDr. Jana Lomenová, PhD. | 100 | 1.00 |
| 5. | Ing. Silvia Pažoureková, PhD. | 100 | 1.00 |
| 6. | Mgr. Petronela Rezbáriková, PhD. | 100 | 1.00 |
| 7. | Mgr. Natália Sedláčková, PhD. | 100 | 1.00 |
| 8. | Ing. Marta Šoltéssová Prnová, PhD. | 100 | 1.00 |
| 9. | Ing. Karol Švík, CSc. | 100 | 1.00 |
| Odborní pracovníci s VŠ vzdelaním | | | |
| 1. | MVDr. Andrej Gajdošík | 100 | 1.00 |
| 2. | RNDr. Alena Gajdošíková | 100 | 1.00 |
| 3. | Doc. RNDr. Magdaléna Kouřilová, CSc. | 0 | 0.00 |
| 4. | Silvia Masaryková | 100 | 1.00 |
| 5. | Ing. Danica Mihalová | 100 | 1.00 |
| 6. | Ing. Ivan Padej | 100 | 1.00 |
| Odborní pracovníci ÚSV | | | |
| 1. | Veronika Bruderová | 100 | 1.00 |
| 2. | Rudolf Bucher | 100 | 1.00 |
| 3. | Monika Červená | 100 | 1.00 |
| 4. | Viera Dytrichová | 100 | 1.00 |
| 5. | Michal Gajdošík | 100 | 1.00 |
| 6. | Peter Galovič | 100 | 1.00 |
| 7. | Štefan Janovič | 100 | 1.00 |
| 8. | Viera Krchnárová | 100 | 1.00 |
| 9. | Ľudmila Križanová | 100 | 1.00 |
| 10. | Daniela Lukačovičová | 100 | 1.00 |
| 11. | Júlia Poláková | 100 | 1.00 |
| 12. | Margita Ryšánková | 100 | 1.00 |
| 13. | Monika Srnová | 100 | 1.00 |
| 14. | Zuzana Straková | 100 | 1.00 |
| 15. | Jana Urgošová | 100 | 1.00 |
| 16. | Monika Úvačková | 100 | 1.00 |
| 17. | Katarína Vandáková | 100 | 1.00 |
| 18. | Dana Zborovanová | 100 | 1.00 |
| | | | |

| Ostatní pracovníci | | | |
|---------------------------|-------------------|-----|------|
| 1. | Vladimír Blanárik | 100 | 1.00 |
| 2. | Leona Brehovská | 50 | 0.50 |
| 3. | Alena Šajánková | 100 | 1.00 |
| 4. | Jozefína Tarabová | 50 | 0.50 |

Zoznam zamestnancov, ktorí odišli v priebehu roka

| | Meno s titulmi | Dátum odchodu | Ročný prepočítaný úväzok |
|--|--------------------------|----------------------|---------------------------------|
| Samostatní vedeckí pracovníci | | | |
| 1. | Ing. Jana Navarová, PhD. | 30.6.2015 | 0.40 |
| Odborní pracovníci s VŠ vzdelaním | | | |
| 1. | Mgr. Marcela Dobiášová | 14.3.2015 | 1.00 |
| Odborní pracovníci ÚSV | | | |
| 1. | Ján Lukačovič | 31.8.2015 | 1.00 |
| Ostatní pracovníci | | | |
| 1. | Lucián Revák | 31.7.2015 | 1.00 |

Zoznam doktorandov

| | Meno s titulmi | Škola/fakulta | Študijný odbor |
|--|------------------------------|--|-----------------------|
| Interní doktorandi hradení z prostriedkov SAV | | | |
| 1. | Mgr. Jana Balleková | Fakulta chemickej a potravinárskej technológie STU | 4.1.22 biochémia |
| 2. | Mgr. Erika Brezovská | Fakulta chemickej a potravinárskej technológie STU | 4.1.22 biochémia |
| 3. | Mgr. Estera Császárová | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 4. | Mgr. Barbara Kaprinay | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 5. | MVDr. Romana Koprđová | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 6. | Mgr. Boris Lipták | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 7. | Mgr. Dominika Luptáková | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 8. | Mgr. Kristína Melicherčíková | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 9. | Ing. Nataša Mrvová | Fakulta chemickej a potravinárskej technológie STU | 4.1.22 biochémia |
| 10. | PharmDr. Kateřina Plachá | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 11. | Mgr. Lukáš Slovák | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |
| 12. | Mgr. Veronika Stará | Jesseniova lekárska fakulta UK v Martine | 7.3.2 farmakológia |

| | | | |
|---|------------------------|--|------------------|
| 13. | Ing. Dominika Topoľská | Fakulta chemickej a potravinárskej technológie STU | 4.1.22 biochémia |
| Interní doktorandi hradení z iných zdrojov | | | |
| <i>organizácia nemá interných doktorandov hradených z iných zdrojov</i> | | | |
| Externí doktorandi | | | |
| 1. | Mgr. Ladislav Bačiak | Prírodovedecká fakulta UK | 4.1.22 biochémia |

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) An integrated European platform for pancreas cancer research: from basic science to clinical and public interventions for a rare disease (*An integrated European platform for pancreas cancer research: from basic science to clinical and public interventions for a rare disease*)

Zodpovedný riešiteľ: Mária Ďurišová
Trvanie projektu: 14.12.2012 / 13.12.2016
Evidenčné číslo projektu: ESSEM COST Action BM1204
Organizácia je koordinátorom projektu: nie
Koordinátor: Spanish National Cancer Research Centre (CNIO)
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: COST: 535 €

2.) Podnetné organické syntézy inšpirované prírodou: od chémie prírodných látok po objav liečiv (*Challenging organic synthesis inspired by nature - from natural products to drug discovery.*)

Zodpovedný riešiteľ: Ľubica Horáková
Trvanie projektu: 15.3.2015 / 14.3.2019
Evidenčné číslo projektu: COST CM1407
Organizácia je koordinátorom projektu: nie
Koordinátor: Prof. Bruno Botta, Sapienza Universita di Roma, Italy
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: COST: 1500 €
Podpora medzinárodnej spolupráce z národných zdrojov: 3333 €

Dosiahnuté výsledky:

Vlastnosti semisyntetických derivátov kvercetínu a rutínu boli študované na transmembránovom proteíne Ca²⁺-ATPáze zo sarkoplazmatického retikula (SERCA) a na pankreatických INS-1E beta-bunkách. Výsledky boli prezentované na akcii COST CM1407 v Ríme ako je dole uvedené.

Rutín a kvercetín boli hodnotené s ohľadom na ich schopnosť modulovať SERCA1 aktivitu sarkoplazmatického retikula kostrového svalu a boli porovnávané s materskými zlúčeninami.

Deriváty, ktoré znížili aktivitu SERCA1 vykazovali vyššiu afinitu k transmembránovej oblasti SERCA a/alebo ich prooxidačné vlastnosti prevažovali vlastnosti antioxidačné. Vybrané deriváty, ktoré znížili aktivitu SERCA1 boli inkubované s INS-1E beta-bunkami (obsahujúcimi SERCA2 a 3 izoformy), ktorých podobnosť so SERCA1 je vysoká. Tieto deriváty znížili viabilitu, zvýšili [Ca²⁺]_i a indukovali apoptózu. Selektívne SERCA modulátory môžu byť jednou zo stratégií pri liečbe chorôb spojených so stresom endoplazmatického retikula. Najúčinnnejšie semisyntetické deriváty hlavne so silnými cytotoxickými vlastnosťami boli poslané v rámci akcie COST na Institute for Biological Research v Belehrade na testovanie ich antikancerogénnej aktivity.

VISKUPIČOVÁ, Jana - ŽIŽKOVÁ, Petronela - MÁJEKOVÁ, Magdaléna - RAČKOVÁ, Lucia - HORÁKOVÁ, Ľubica. Dysfunction of sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA) and apoptosis of pancreatic beta-cells induced by flavonoid derivatives and Pycnogenol®. In 1st Meeting of COST Action CM1407 : challenging organic syntheses inspired by nature-from natural products chemistry to drug discovery. Rome, 5-6 October 2015. - Rome : Sapienza Università di Roma, 2015, p. 67. COST Action CM 1407, ITMS 262402 20040.

3.) COST BM1204 : Integrovaná európska platforma pre výskum rakoviny pankreasu: od základného výskumu ku opatreniam v klinickej medicíne a verejnom zdravotníctve v oblasti zriedkavých chorôb (*COST BM1204 : An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 16.7.2012 / 13.12.2016
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: nie
Koordinátor: Spanish National Cancer Research Centre (CNIO), Melchor Fernandez Almagro 3, 28029 Madrid
Počet spoluriešiteľských inštitúcií: 9 - Belgicko: 1, Nemecko: 1, Grécko: 1, Maďarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 1, Litva: 1, Holandsko: 1
Čerpané financie: COST: 535 €

Dosiahnuté výsledky:

ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In Journal of medicinal chemistry, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). (2015 - Current Contents). ISSN 0022-2623. Typ: ADCA

VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Inhibition of the sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA1) by rutin derivatives. In Journal of Muscle Research and Cell Motility, 2015, vol. 36, p. 183-194. (2.086 - IF2014). (2015 - Current Contents). ISSN 0142-4319. Typ: ADCA

ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Interakcia metylglyoxalu s Ca²⁺-ATPázou zo sarkoplazmatického retikula kostrového svalu. In XXV. Diabetologické dni s medzinárodnou účasťou : zborník abstraktov. 27. - 29. 5. 2015, Martin. - Martin : Slovenská diabetologická spoločnosť, 2015, s. 40. ISBN 978-80-9707450-5-0. Typ: AFH

Vyžiadaná prednáška:

MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágeľová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. Typ: AFF

4.) COST CM1103 Štrukturálne podmienené navrhovanie liečiv na diagnózu a liečenie neurologických ochorení (*COST CM1103 Structure-based drug design for diagnosis and treatment of neurological diseases*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 28.11.2011 / 27.11.2015
Evidenčné číslo projektu: COST CM1103
Organizácia je koordinátorom projektu: nie
Koordinátor: Dr. Rona Ramsay, University of St Andrews, UK
Počet spoluriešiteľských inštitúcií: 38 - Rakúsko: 1, Česko: 1, Nemecko: 2, Dánsko: 5, Španielsko: 5, Veľká Británia: 2, Chorvátsko: 3, Írsko: 2, Malta: 4, Poľsko: 1, Portugalsko: 2, Srbsko: 2, Slovensko: 3, Slovinsko: 1, Turecko: 4
Čerpané financie: COST: 6616 €

Dosiahnuté výsledky:

- ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In *Journal of medicinal chemistry*, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). (2015 - Current Contents). ISSN 0022-2623. Typ: ADCA
- VISKUPIČOVÁ, Jana - ŠTROSOVÁ, Miriam - ŽIŽKOVÁ, Petronela - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Lubica. Rutin stimulates sarcoplasmic reticulum Ca²⁺-ATPase activity (SERCA1) and protects SERCA1 from peroxynitrite mediated injury. In *Molecular and Cellular Biochemistry : an international journal for chemical biology in health and disease*, 2015, vol. 402, iss. 1-2, p. 51-62. (2.393 - IF2014). (2015 - Current Contents). ISSN 0300-8177. Typ: ADCA
- VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Lubica. Inhibition of the sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA1) by rutin derivatives. In *Journal of Muscle Research and Cell Motility*, 2015, vol. 36, p. 183-194. (2.086 - IF2014). (2015 - Current Contents). ISSN 0142-4319. Typ: ADCA
- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridoindole derivatives with multi-target-directed neuroprotective action. In *MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Universita degli Studi di Cagliari*, 2015, p. 327. Typ: AFG
- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridoindole derivatives with multi-target-directed neuroprotective action. In *COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : Typ: AFG*
- ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Centirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In *MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Universita degli Studi di Cagliari*, 2015, p. 329. Typ: AFG
- ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Centirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In *COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : Typ: AFG*
- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ŠOLTÉSOVÁ PRNOVÁ, Marta - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Multi-target directed compounds SMe1EC2 and CMTI. In *IV. Miniconference of PhD. students 2015 : abstract booklet. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2015, non pag. Typ: AFH*

Vyžiadaná prednáška:

MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In *SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágeľová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. Typ: AFF*

5.) **Viac-cieľový model pre inovatívnu identifikáciu látok v procese objavovania liečiv** (*Multi-target paradigm for innovative ligand identification in the drug discovery process*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 4.12.2015 / 29.10.2019
Evidenčné číslo projektu: COST CA15135
Organizácia je koordinátorom projektu: nie
Koordinátor: TBA
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: mobilita

Programy: Bilaterálne - iné

6.) **Phytochemicals in ameliorating rheumatoid arthritis therapy: from preclinical studies to clinical applications**

Zodpovedný riešiteľ: Katarína Bauerová
Trvanie projektu: 1.1.2013 / 31.12.2015
Evidenčné číslo projektu: CNR-SAV 2013
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 4 - Taliansko: 3, Slovensko: 1
Čerpané financie: mobilita

Dosiahnuté výsledky:

V roku 2015 sme sa hlavne zamerali na hodnotenie nových terapií artritídy zo skupiny polyfenolov. Nové terapie reumatoidnej artritídy (RA) tiež zahŕňajú použitie v prírode sa vyskytujúcich polyfenolov, ktoré majú antioxidantné vlastnosti. V rámci slovensko-talianskej spolupráce sa skúmali účinky perorálne podávaného kvercetínu v modeli adjuvantnej artritídy u potkanov. Experimentálne zvieratá boli liečené kvercetínom perorálne dávkou 150 mg/kg telesnej hmotnosti počas 28 dní. Výsledky ukázali, že kvercetín bol schopný zlepšiť všetky merané ukazovatele zápalu a oxidačného stresu (OS). Kvercetín znižoval hladiny interleukínu-1 β , C-reaktívneho proteínu a monocytového chemotaktického proteínu-1 (MCP-1) a obnovil antioxidantnú kapacitu plazmy. Okrem toho, kvercetín inhiboval enzymatickú aktivitu pro-zápalovej 12/15-lipoxygenázy (LOX) v pľúcach a v pečeni a zvýšil expresiu hém oxygenázy-1 (HO-1) v kĺbe a v pľúcach artritických potkanov. A taktiež inhiboval 2-násobné zvýšenie aktivity NF-kappaB v pľúcach, v pečeni a v kĺbe po indukciu artritídy. U artritických potkanov 28-dňová monoterapia pinosylvínom (PIN) v per os dávke 50 mg/kg benefične ovplyvnila aktiváciu NF-kappaB v pečeni a v pľúcach, HO-1 expresiu a aktivitu LOX v pľúcach, MCP-1 hladiny v plazme (už na 14. deň) a plazmatické hladiny F2-izoprostánov. Aj keď existujú štúdie o účinkoch antioxidantov na priebeh RA, ich úloha v kombinovanej liečbe doteraz nebola podrobne skúmaná. Významným prínosom PIN k účinku MTX bolo zníženie OS (nárast HO-1 expresie v pľúcach a zníženie plazmatických TBARS) a zníženie LOX aktivity v pľúcach. Záverom je možné konštatovať, že obe polyfenolické látky sa ukázali vhodné pre adjuvantnú terapiu artritídy popri klasickej liečbe. Dr. Russo a profesorka Gardi navštívili naše pracovisko koncom roku 2015. Výsledkom ich krátkodobého pobytu bola príprava záverečnej správy o riešení projektu.

Výstupy:

- BAUEROVÁ, Katarína - ACQUAVIVA, Alessandra - PONIŠT, Silvester - GARDI, Concetta - VECCHIO, Daniela - DRÁFI, František - AREZZINI, Beatrice - BEZÁKOVÁ, Lýdia - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - NOSÁL, Radomír. Markers of inflammation and oxidative stress studied in adjuvant-induced arthritis in the rat on systemic and local level affected by pinosylvlin and methotrexate and their combination. In *Autoimmunity*, 2015, vol. 48, no. 1, p. 46-56. (2.714 - IF2014). (2015 - Current Contents). ISSN 0891-6934. Typ: ADCA
- BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - GARDI, Concetta - MIHALOVÁ, Danica - DRÁFI, František - PONIŠT, Silvester - VECCHIO, Daniela - NOSÁL, Radomír. Two polyphenolic molecules evaluated as potential innovative therapy of rheumatoid arthritis. In 9th World Congress on Polyphenols Applications : ISANH. - Malta : ISANH, 2015, p. 98. ISBN 978-2-35609-073-7. VEGA 2/0044/15, APVV-0052-10, SAS-CNR. Typ: AFG
- GARDI, Concetta - BAUEROVÁ, Katarína - STRINGA, Blerta - KUNCÍROVÁ, Viera - SLOVÁK, Lukáš - PONIŠT, Silvester - DRÁFI, František - BEZÁKOVÁ, Lýdia - TEDESCO, Idolo - ACQUAVIVA, Alessandra - BILOTTO, Stefania - RUSSO, Gian Luigi. Quercetin reduced inflammation and increased antioxidant defense in rat adjuvant arthritis. In *Archives of Biochemistry and Biophysics*, 2015, vol. 583, p. 150-157. (3.017 - IF2014). (2015 - Current Contents). ISSN 0003-9861. VEGA 2/0045/11, VEGA 2/0044/15, SAV-CNR, IMEF NRC 191/2009. Typ: ADCA
- STRINGA, Blerta - BAUEROVÁ, Katarína - SLOVÁK, Lukáš - KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - BEZÁKOVÁ, Lýdia - TEDESCO, Idolo - RUSSO, Gian Luigi - GARDI, Concetta. Antinflammatory and antioxidative effect of quercetin on rat adjuvant arthritis. In OCC 2015. Oxygen Club of California World Congress. Oxidants and Antioxidants in Biology : book of abstracts. - Valencia : OCC, 2015, p. 126. VEGA 2/0044/15, SAS-CNR. Typ: AFG

7.) Role of the systemic inflammatory processes in the development of oxidative stress in the brain of arthritic subjects. Evaluation of experimental therapy based on new carnosine preparations (*Role of the systemic inflammatory processes in the development of oxidative stress in the brain of arthritic subjects. Evaluation of experimental therapy based on new carnosine preparations*)

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| Zodpovedný riešiteľ: | Katarína Bauerová |
| Trvanie projektu: | 1.1.2013 / 31.12.2015 |
| Evidenčné číslo projektu: | RAMS-SAV 2013 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | mobilita |

Dosiahnuté výsledky:

V roku 2015 sme nadviazali na naše skúsenosti s karnozínom v experimentálnej artritíde a hodnotili sme jeho derivát s troloxom. (CARN) je endogénna anti-glykačná látka schopná zhasť superoxid a neutralizovať 4-hydroxynonenal. Trolox-karnozín (CARN-T) bol syntetizovaný z dôvodu odolnosti proti degradácii a zlepšenia antioxidantnej kapacity CARN. V spolupráci s našimi kolegami z Ruskej akadémie lekárskeho vied v Moskve sme hodnotili vplyv troloxu (TRO), CARN a jeho derivátu CARN-T na oxidačný stres (OS) v mozgu u potkanov s adjuvantnou artritídou. Pokusy boli vykonané na zdravých, artritických a artritických zvieratách s podaním CARN 150 mg / kg, TRO 41 mg / kg a CARN-T 75 mg / kg denne v priebehu 28 dní. Antioxidanty nemali vplyv na zmenu telesnej hmotnosti na 14. deň, ale 28. deň TRO zvýšil redukciu hmotnosti zvierat. CARN-T a TRO znížili artritické skóre oba tieto experimentálne dni. IL-1 beta, MCP-1 a MMP-9 boli zmerané v plazme na 14. deň. Hladina MCP-1 v plazme bola znížená len podávaním CARN-T a TRO, avšak všetky antioxidanty znížili hladiny IL-1 beta a MMP-9 v plazme. V mozgu boli zvýšené hladiny malondialdehydu, 4-hydroxynonenalu a proteínových karbonylov u artritických zvierat v porovnaní so zdravými. CARN, CARN-T a TRO zabránili zvýšenej oxidácii lipidov a proteínov v mozgu. Aj keď antioxidanty mali podobné liečebné účinky na artritické skóre a ukazovatele zápalu v plazme a

OS v mozgu, CARN a CARN-T nespôsobili zníženie hmotnosti zvierat ako TRO, čo je veľmi vítané v zápalových artritických ochoreniach sprevádzaných kachexiou. V tomto roku sa neuskutočnil výmenný pobyt.

Výstupy:

- PONIŠT, Silvester - SLOVÁK, Lukáš - KUNCÍROVÁ, Viera - FEDOROVA, Tatiana - LOGVINENKO, A.T. - MUZYCHUK, O. - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Inhibition of oxidative stress in brain during rat adjuvant arthritis by carnosine, trolox and novel trolox-carnosine. In *Physiological Research*, 2015, vol. 64, suppl. 4, p. S489-S496. (1.293 - IF2014). (2015 - Current Contents). ISSN 0862-8408. VEGA 2/0044/15, SAS-RAMS project 2013-2015. Typ: ADCA
- PONIŠT, Silvester - SLOVÁK, Lukáš - KUNCÍROVÁ, Viera - KUCHARSKÁ, Jarmila - FEDOROVA, Tatiana - LOGVINENKO, A.T. - MUZYCHUK, O. - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Evaluation of carnosine, trolox and novel trolox-carnosine effect in the treatment of adjuvant arthritis with impact on oxidative stress in the brain. In 20. Mezioborová Česko-Slovenská toxikologická konferencie. TOXCON 2015. Program & abstrakty. - Brno : Tribun EU, 2015, s. 108-109. ISBN 987-80-263-0933-8. VEGA 2/0044/15, SAS-RAMS 2013-2015. Typ: AFG
- SLOVÁK, Lukáš - PONIŠT, Silvester - KUNCÍROVÁ, Viera - FEDOROVA, Tatiana - LOGVINENKO, A.T. - MUZYCHUK, O. - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Evaluation of carnosine, trolox and novel trolox-carnosine effect in the treatment of adjuvant arthritis. In International miniconference of PhD students. IV. miniconference of PhD students : when biochemistry meets pharmacology and toxicology. 24th June 2015. Proceedings book. - Bratislava : Institute of Experimental Pharmacology and Toxicology SASc., 2015, p. 59-66. ISBN 978-80-971042-5-2. VEGA 2/0044/15, SAS-RAMS 2013-2015. Typ: AFD

8.) Výskum a vývoj špecifických protilátok voči rôznym typom gliadínových fragmentov a štúdium vplyvu potravy a imunizácie na afinitu týchto protilátok

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| Zodpovedný riešiteľ: | Alena Gajdošíková |
| Trvanie projektu: | 1.1.2012 / 31.12.2016 |
| Evidenčné číslo projektu: | |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 1 - Rakúsko: 1 |
| Čerpané financie: | 0 |

9.) The characterization and functional effects of quercetin and its derivative CHNQ, a potent aldo keto reductase inhibitor, in colorectal cancer (*The characterization and functional effects of quercetin and its derivative CHNQ, a potent aldo keto reductase inhibitor, in colorectal cancer*)

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|---|--|
| Zodpovedný riešiteľ: | Milan Štefek |
| Trvanie projektu: | 1.1.2013 / 31.12.2015 |
| Evidenčné číslo projektu: | 113S006 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 1 - Turecko: 1 |
| Čerpané financie: | mobilita |

Projekty národných agentúr

Programy: VEGA

1.) **Názov projektu: Výskum ovplyvnenia zápalu, chronickej autoimunitnej reakcie a redoxnej regulácie organizmu v experimentálnej artritíde použitím nových látok pre adjuvantnú terapiu reumatoidnej artritídy**

Zodpovedný riešiteľ: Katarína Bauerová
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0044/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 12477 €

Dosiahnuté výsledky:

V spolupráci s riešiteľmi projektu APVV-052-10 sa hodnotil mechanizmus účinku hydroxychlorochínu v podmienkach adjuvantnej artritídy. Ďalej, okrem participácie na dvoch medzinárodných bilaterálnych projektoch spolupráce, sme sa zamerali na štúdium hodnotenia úlohy bilirubínu v experimentálnej artritíde. Súčasný medicínsky výskum odhaľuje potenciál bilirubínu (BIL) ako imunomodulátora a tkanivového protektanta. Vzhľadom k týmto jeho vlastnostiam, sme sa rozhodli skúmať BIL na modeli adjuvantom indukovanej artritídy (AIA), pre ktorý sú charakteristické oxidačný stres, zápal a neadekvátna imunitná odpoveď. Cieľom výskumu bolo (1) indukovať AIA v dvoch skupinách potkanov kmeňa Lewis a súčasne (2) liečiť BIL jednu skupinu s AIA (dávka 200 mg/kg telesnej hmotnosti denne i.p.), (3) a záverom porovnať obe experimentálne skupiny.

Jedinečnosť nášho experimentu bola v dĺžke podávania BIL, ktorého efekt v organizme sme sledovali v priebehu dvoch týždňov počnúc od 14. experimentálneho dňa od vyvolania AIA, ako aj v širokom spektre hodnotených parametrov. Sledoval sa vplyv hyperbilirubinémie (BIL podávaný v skupine AIA bol sto krát vyšší v porovnaní s kontrolnou zdravou skupinou) na vybrané tkanivá a dynamiku progresie ochorenia vrátane histologických nálezov. Táto štúdia ako prvá hodnotila aj hematologické parametre počas podávania nekonjugovaného BIL. Hodnotené krvné elementy - biele a červené krvinky, ako aj hladina hemoglobínu a hematokritu boli signifikantne znížené v dôsledku hyperbilirubinémie. Na druhej strane krvné doštičky boli štatisticky významne zvýšené v skupine AIA s BIL oproti skupine AIA. Ďalej hyperbilirubinémia u zvierat s AIA znížila nielen opuch zadných končatín experimentálnych zvierat, ale aj hmotnosť sleziny a týmusu a významne upravila v plazme artritídou aktivované zápalové parametre - C-reaktívny proteín a ceruloplazmín. Týmto sme ukázali, že BIL má schopnosť upraviť patofyziologický proces zápalu v modeli AIA, čo následne ovplyvní aj výskum potenciálnej terapie reumatoidnej artritídy.

Výstupy:

BAUEROVÁ, Katarína - DRÁFI, František - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BABÁL, Pavel - SÝKORA, T. Hyperbilirubinemia decreases physiological markers in adjuvant-induced arthritis. In *Physiological Research*, 2015, vol. 64, suppl. 4, p. S459-S466. (1.293 - IF2014). (2015 - Current Contents). ISSN 0862-8408. VEGA 2/0045/11, VEGA 2/0044/15. Typ: ADCA

JANČINOVÁ, Viera - PAŽOUREKOVÁ, Silvia - LUCOVÁ, Marianna - PEREČKO, Tomáš - MIHALOVÁ, Danica - BAUEROVÁ, Katarína - NOSÁL, Radomír - DRÁBIKOVÁ, Katarína. Selective inhibition of extracellular oxidants liberated from human neutrophils - A new mechanism potentially involved in the anti-inflammatory activity of hydroxychloroquine. In *International Immunopharmacology*, 2015, vol. 28, p. 175-181. (2.472 - IF2014). (2015 - Current Contents). ISSN 1567-5769. APVV-0052-10, VEGA 2/0010/13, VEGA 2/0044/15. Typ: ADCA

2.) Epikatechín v prevencii včasného rozvoja primárnej hypertenzie: mechanizmy pôsobenia v kardiovaskulárnom a centrálnom nervovom systéme

Zodpovedný riešiteľ: Iveta Bernátová
Zodpovedný riešiteľ v organizácii SAV: Ružena Sotníková
Trvanie projektu: 1.1.2014 / 31.12.2016
Evidenčné číslo projektu: VEGA 2/0084/14
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: 0

Dosiahnuté výsledky:

V projekte VEGA 2/0084/14 sa sleduje účinok epikatechínu podávaného v dvoch časových režimoch na funkčný stav aorty potkanov kmeňa Wistar a hranične hypertenzných potkanov. Výsledky sa priebežne vykonávajú a vyhodnocujú.

3.) Inhibícia proliferácie a indukcia apoptózy v rakovinových bunkách ovplyvnením ich metabolického profilu

Zodpovedný riešiteľ: Dušan Blaškovič
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0148/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5667 €

4.) Farmakologická regulácia aktivity a apoptózy fagocytov: štúdium na celulárnej a molekulárnej úrovni (*Pharmacological regulation of phagocyte activity and apoptosis: studies on cellular and molecular levels*)

Zodpovedný riešiteľ: Katarína Drábiková
Trvanie projektu: 1.1.2013 / 31.12.2016
Evidenčné číslo projektu: VEGA 2/0010/13
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 6632 €

Dosiahnuté výsledky:

Selektívna inhibícia extracelulárnej produkcie oxidantov v ľudských neutrofiloch ovplyvnených hydroxychlorochínom

Hydroxychlorochín, liečivo používané v terapii autoimunitných ochorení, znižoval aktivitu neutrofilov u potkanov s adjuvantnou artritídou. Účinok bol porovnateľný s účinkom referenčného liečiva metotrexátu. V izolovaných ľudských neutrofiloch, hydroxychlorochín znižoval koncentráciu reaktívnych foriem kyslíka (RFK) uvoľnených extracelulárne, inhiboval mobilizáciu vnútrobunkového vápnika a fosforyláciu Ca²⁺-závislých proteínkináz PKC[?] a PKC[?]II. Naproti tomu, produkcia ROS vnútri neutrofilov ani fosforylácia p40phox a PKC[?] (proteíny regulujúce tvorbu RFK na intracelulárnych membránach) neboli znížené. Schopnosť eliminovať RFK podieľajúce sa na zápalovom poškodení tkanív bez ovplyvnenia oxidantov zodpovedných za reguláciu a pokles aktivity neutrofilov pri zápale môže predstavovať ďalší mechanizmus protizápalového pôsobenia hydroxychlorochínu.

JANČINOVÁ V., PAŽOUREKOVÁ S., LUCOVÁ M., PEREČKO T., MIHALOVÁ D., BAUEROVÁ K., NOSÁL R., DRÁBIKOVÁ K. Selective inhibition of extracellular oxidants liberated from human neutrophils – A new mechanism potentially involved in the anti-inflammatory activity of hydroxychloroquine. *International Immunopharmacology* 28, 2015, 175-181

JANČINOVÁ V., PAŽOUREKOVÁ S., LUCOVÁ M., PEREČKO T., NOSÁL R., DRÁBIKOVÁ K. Dual role of neutrophil-derived oxidants in inflammation and its implication in the efficacy of anti-inflammatory therapy. Zborník abstraktov 65. Farmakologických dní, Praha, 2015, s.18, ISBN 978-80-260-8027-5

Farmakologická inhibícia oxidačného vzplanutia profesionálnych fagocytov

Charakterizoval a porovnal sa účinok terapeuticky používaných liečiv a prírodných polyfenolov na oxidatívne vzplanutie ľudskej krvi a izolovaných neutrofilov na bunkovej a molekulárnej úrovni. Porovnal sa účinok testovaných látok na extra- a intracelulárnu tvorbu reaktívnych foriem kyslíka, apoptózu a aktiváciu regulačnej proteínkinázy neutrofilov in vitro. Z testovaných antihistaminík boli účinnejšie antagonisy H1-histamínového receptora v porovnaní s inhibítormi H3/H4 receptora. V poradí inhibície oxidatívneho vzplanutia plnej krvi bola účinnosť: N-feruloylsérotonín> kurkumín> quercetín> arbutín> resveratrol> dithiaden> carvedilol> brómfeniramín. V pomere percentuálnej inhibície extracelulárnej k intracelulárnej chemiluminiscencii sa zistilo poradie: quercetín>N-feruloylsérotonín>resveratrol>kurkumín>dithiaden. Najvýhodnejší pomer medzi extra- a intracelulárnou inhibíciou chemiluminiscencie sa nameral pre arbutín, najmenej výhodný pre quercetín. Z pomeru vyplýva optimalizácia využitia testovaných látok ako antioxidantov: maximálne zhášanie extracelulárneho výskytu toxických reaktívnych foriem kyslíka pri zachovaní ich úlohy pre reguláciu intracelulárnych mechanizmov neutrofilov.

NOSÁL R., JANČINOVÁ V., DRÁBIKOVÁ K., PEREČKO T. Molecular pharmacology of antihistamines in inhibition of oxidative burst of professional phagocytes. *General Physiology and Biophysics* 34, 2015, 209-216.

NOSÁL R., DRÁBIKOVÁ K., JANČINOVÁ V., MAČIČKOVÁ T., PEČIVOVÁ J., PEREČKO T. On the pharmacology of the oxidative burst of human neutrophils. *Physiological Research* 64 (Suppl. 4), 2015, S445-S452 a Zborník abstraktov 65. Farmakologických dní, Praha, 2015, s.34-35, ISBN 978-80-260-8027-5

Arbutín a jeho účinok na zníženie toxických látok, ktoré sa tvoria a uvoľňujú z ľudských neutrofilov

Aktivované neutrofilily tvoria a uvoľňujú množstvo toxických látok (napr. reaktívne formy kyslíka, cytotoxické proteíny, proteolytické enzýmy), ktoré sa podieľajú na eliminácii infekcie. Tieto látky môžu však spôsobiť aj poškodenie tkanív a prispievať k pretrvávajúcemu zápalu. Z tohto pohľadu, predstavuje farmakologický zásah zameraný na zníženie aktivity neutrofilov perspektívny spôsob podpornej terapie chronického zápalu. Testovali sme účinok prírodnej látky arbutín (hydrochinón beta-D-glykopyranozid) z *Artostaphylos uva ursi*, u ktorého bol preukázaný antiseptický a antioxidantný účinok a terapeuticky používaného carvedilolu (β_1 , β_2 a β_1 adrenergický blokátor) s antioxidantnými vlastnosťami. Látky sme testovali samostatne alebo v kombinácii na ovplyvnenie tvorby superoxidu a uvoľnenia myeloperoxidázy, elastázy a fosfolipázy D z ľudských neutrofilov po aktivácii PMA. Carvedilol významne inhiboval uvoľnenie elastázy a fosfolipázy D v koncentrácii 10 $\mu\text{mol/l}$, v prípade tvorby superoxidu a uvoľnenia myeloperoxidázy bola významná inhibícia v koncentrácii 100 $\mu\text{mol/l}$. Kombinácia arbutínu a carvedilolu významne prehĺbila

redukciu tvorby aj uvoľnenia študovaných ukazovateľov. Hlavná výhoda použitia prírodných látok je v ich limitovaných, alebo nijakých nežiaducich vedľajších účinkoch. Zníženie aktivity funkcií neutrofilov (predovšetkým nadmernej tvorby reaktívnych foriem kyslíka a s tým spojenou degranuláciou) týmito látkami môže tak zvýšiť účinnosť štandardnej liečby a vyústiť v zlepšenie priebehu ochorenia.

PEČIVOVÁ J., NOSÁĽ R., SVITEKOVÁ K., MAČIČKOVÁ T. Arbutin and decrease of potentially toxic substances generated in human blood neutrophils. *Interdisciplinary Toxicology* 7 (4): 195-200, 2014

Modulácia aktivity neutrofilov equolom

Equol je koncovým produktom biotransformácie fytoestrogénu daidzeínu. Equol produkuje len 30–50% populácie. V porovnaní s ostatnými izoflavónmi, vykazuje equol silnejšie antioxidantné účinky. Zamerali sme sa na jeho antioxidantnú aktivitu v plnej krvi, ako aj v extra- a intracelulárnom priestore ľudských neutrofilov. Equol znižoval produkciu reaktívnych foriem kyslíka (RFK) v plnej krvi. Ďalej sme stanovili tvorbu voľných radikálov v extracelulárnom prostredí. IC50 bola podobná s efektom iných prírodných polyfenolov, ktoré sme testovali. Zistili sme silný antioxidantný efekt equolu na intracelulárnu produkciu RFK. Fosforyláciu p40phox equol ovplyvňoval signifikantne len v najvyššej koncentrácii (100 µmol/l). Výsledky naznačujú sľubný efekt equolu na oxidačné vzplanutie neutrofilov, čo môže byť nápomocné pri liečbe ochorení s nadmernou produkciou kyslíkových radikálov.

PAŽOUREKOVÁ S., LUCOVÁ M., NOSÁĽ R., DRÁBIKOVÁ K., HARMATHA J., JANČINOVÁ V. Modulation of neutrophil activity by equol. Zborník abstraktov 65. Farmakologických dní, Praha, 2015, s.36, ISBN 978-80-260-8027-5

Pterostilbén a pinosylvín: porovnanie protizápalových účinkov in vitro a in vivo

Fagocyty môžu prispievať k poškodeniu kĺbu produkciou reaktívnych foriem kyslíka. Študoval sa účinok dvoch derivátov stilbénu – pterostilbénu a pinosylvínu na aktivitu fagocytov in vitro a v experimentálnej artritíde potkanov. Obe látky významne znižovali tvorbu reaktívnych foriem kyslíka v izolovaných ľudských neutrofiloch a expresiu indukovateľnej NO syntázy v makrofágoch RAW264.7. Pinosylvín, na rozdiel od pterostilbénu, inhiboval aj aktiváciu proteínkinázy C v neutrofiloch. Podávanie pinosylvínu viedlo k zníženiu počtu neutrofilov a množstva reaktívnych foriem kyslíka v krvi artritických potkanov, kým pterostilbén významne znížil len počet neutrofilov.

PEREČKO T., DRÁBIKOVÁ K., AMBROŽOVÁ G., LOJEK A., ČÍŽ M., NOSÁĽ R., HARMATHA J., JANČINOVÁ V. Comparison of anti-inflammatory potential of pterostilbene and pinosylvin in vitro and in vivo. *European Journal of Clinical Investigation* 45, Suppl 2, 2015, 60-61

5.) Štúdium dôsledkov materskej depresie a podávania antidepresíva venlafaxínu na funkčný vývin mozgu a správanie potomstva potkanov

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| Zodpovedný riešiteľ: | Michal Dubovický |
| Trvanie projektu: | 1.1.2015 / 31.12.2018 |
| Evidenčné číslo projektu: | 2/0168/15 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | VEGA: 9282 € |

Dosiahnuté výsledky:

V rámci riešenia projektu sme zistili, že dlhodobé podávanie antidepresívneho liečiva venlafaxínu (VENF) zo skupiny SNRI počas gravidity a laktácie potkanov spôsobuje u potomstva zmeny správania. Dospelé potomstvo malo nižšiu mieru správania podobného úzkosti a depresii v novom neznámom prostredí. Mali tiež zvýšené bazálne hladiny kortikosterónu a aldosterónu. Tieto výsledky poukazujú na to, že VENF pravdepodobne spolupôsobí s vývinovými procesmi mozgu počas senzitivných štádií, čoho výsledkom je zmenená neurobehaviorálna a neuroendokrinná regulácia. Tieto zmeny nemožno považovať za závažné alebo adverzné. Ide skôr o zmeny v zmysle adaptačných mechanizmov. Zvieratá ovplyvnené cez matku VENF sa menej báli v novom prostredí, čo možno interpretovať ako lepšiu schopnosť prispôbiť sa. Naša štúdia prispieva k poznatku, že VENF je v porovnaní s inými antidepresívami z rovnakej skupiny relatívne bezpečné liečivo. Výsledky štúdie boli spísané do koncízneho vedeckého článku a budú zaslané do redakcie vybraného zahraničného recenzovaného časopisu podľa rozhodnutia autorov.

6.) Rizikové faktory kardiovaskulárnych a cerebrovaskulárnych ochorení a farmakologické možnosti ich ovplyvnenia (*Risk factors of cardiovascular and cerebrovascular diseases and pharmacological possibilities of their influence*)

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| Zodpovedný riešiteľ: | Zdenka Gáspárová |
| Trvanie projektu: | 1.1.2015 / 31.12.2018 |
| Evidenčné číslo projektu: | 2/0054/15 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | VEGA: 8040 € |

Dosiahnuté výsledky:

V prvom roku riešenia projektu VEGA 2/0054/15 sme sledovali vplyv 8- týždňovej diéty so zvýšeným obsahom tuku v potrave hereditárne hypertriglyceridemických (HTG) potkanov na celý rad ukazovateľov poškodenia: tlak krvi, hladinu glukózy v krvi, glukózový tolerančný test, funkčné zmeny brušnej aorty a činnosti srdca, zmeny nervového prenosu v hipokampe, hmotnosť potkanov, hmotnosť pečene a obličiek. Hodnoty získané z HTG potkanov s vysokotukovou diétou sa porovnávajú s hodnotami HTG a Wistar potkanov kŕmených štandardnou diétou. Z opakovane odobratej krvi potkanov sa pripravilo a zamrazilo sérum, v ktorom sa budú pomocou špeciálnych kitov stanovovať hladiny celkového cholesterolu, HDL a LDL, triglyceridov a zápalových cytokínov. Na morfometrické vyšetrenie (spolupráca s LFUK) sa odobrali vzorky pečene, mozgu, brušnej aorty a srdca. Získané hodnoty z jednotlivých funkčných meraní sú v procese vyhodnocovania. V druhom roku riešenia projektu plánujeme aj skupiny cielene liečených zvierat.

7.) Zlyhanie mozgového energetického metabolizmu v patobiochemickom mechanizme hypoxicko-ischemického poškodenia mozgu novorodencov (*Cerebral energy metabolism failure as one of patho-biochemical mechanisms involved in hypoxic-ischemic insult of the neonatal brain*)

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| Zodpovedný riešiteľ: | Ivo Juránek |
| Trvanie projektu: | 1.1.2012 / 31.12.2015 |
| Evidenčné číslo projektu: | 2/0149/12 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | VEGA: 5005 € |

Dosiahnuté výsledky:

Zistili sme, že:

- 1) priebeh hypoxicko-ischemického poškodenia (HIP) neonatálneho mozgu vyvolaný v experimente na novorodených mláďatách laboratórneho potkana má charakteristický dvojfázový priebeh;
- 2) zlyhanie energetického metabolizmu (EM) prebieha typicky dvojfázovo; primárne zlyhanie (PZ-EM) je spôsobené zníženou dostupnosťou kyslíka pre OxPhos, zatiaľčo sekundárne (SZ-EM), ktoré často nastáva po čiastočnom resp. zdanlivom zotavení mozgu v dôsledku jeho reoxygénácie, je zapríčinené preťažením bunky vápnikom; PZ-EM a SZ-EM boli detekované in vivo pomocou neinvazívnej protónovej a fosforovej NMR spektroskopie (MRS);
- 3) dvojfázový charakter HIP potvrdili aj histologické nálezy, ktoré kopirovali zlyhanie energetického metabolizmu, tj. PZ-EM a SZ-EM;
- 4) našim unikátnym zistením - v rozpore s klasickou predstavou - je výsledok/nález, že na rozdiel od dospelého mozgu nie sú u neonatálneho mozgu jednotlivé fázy HIP histologicky špecifické (Neurochem. Int. 54: 471), tzn. nekróza nie je charakteristická iba pre prvú fázu a apoptóza pre druhú fázu; konkrétne, zistili sme, že v HIP neonatálneho mozgu potkana prebiehajú ako nekróza tak apoptóza v oboch fázach HIP; navyše, nekróza vrcholí počas zdanlivého zotavenia, tzn. medzi dvomi fázami HIP; obidve tieto zistenia boli neočakávané a doteraz neopísané;
- 5) relevantným zistením bol dvojfázový vznik edému - v primárnej fáze HIP dominoval cytotoxický intra-celulárny edém, zatiaľčo v sekundárnej fáze HIP edém vazogénny, tj. extracelulárny, edém;
- 6) významným a klinicky relevantným je naše zistenie, že v krvnom sére novorodených potkanov dochádza k zvýšeniu aktivít špecifických matrixových metaloproteináz (MMP-2 a MMP-9) pri HIP mozgu, čo svedčí o porušení hematoencefalickej bariéry (BBB, blood-brain barrier); toto zistenie je dôležité najmä z hľadiska jeho potenciálneho využitia ako biomarkera HIP (viď zoznam publikácií).

VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - TOPOĽSKÁ, Dominika - SASINKOVÁ, Vlasta - JURÁNEK, Ivo - COLLINS, Maurice N. - ŠOLTÉS, Ladislav. Influence of tiopronin, captopril and levamisole therapeutics on the oxidative degradation of hyaluronan. In Carbohydrate Polymers, 2015, vol. 134, p. 516-523. (4.074 - IF2014). (2015 - Current Contents). ISSN 0144-8617. VEGA 2/0065/15, VEGA 2/0149/12. Typ: ADCA

BAŇASOVÁ, Mária - KERNER, Lukáš - JURÁNEK, Ivo - PUTALA, Martin - VALACHOVÁ, Katarína - ŠOLTÉS, Ladislav. Radical scavenging capacity of N-(2-mercapto-2-methylpropionyl)- L-cysteine: design and synthesis of its derivatives with enhanced potential of scavenge hypochlorite. In Journal of Information, Intelligence and Knowledge, 2014, vol. 6, no. 4, p. 453-470. ISSN 1937-7983. VEGA 2/0011/11, VEGA 2/0149/12, APVV 0351-10. Typ: ADEB

JURÁNEK, Ivo. Antioxidants versus free oxygen radicals - good and bad guys: But, who is who? In 20. Mezioborová Česko-Slovenská toxikologická konferencia. TOXCON 2015. Program & abstrakty. - Brno : Tribun EU, 2015, s. 68. ISBN 987-80-263-0933-8. VEGA 2/0149/12. Typ: AFG

LUPTÁKOVÁ, Dominika - HOSKERI, Joy Harris - PLACHÁ, Kateřina - JURÁNEK, Ivo. Neurodegeneration, blood-brain barrier disruption and neuroinflammation as a consequence of hypoxic-ischemic insult to newborn rats. In Neuronus 2015. IBRO & IRUN Neuroscience Forum. April 17-19 2015, Krakow, Poland. - Krakow : Jagellonian University, 2015, p. 18. Typ: AFG

- BAČIAK, Ladislav - PLACHÁ, Kateřina - LUPTÁKOVÁ, Dominika - HOSKERI, Joy Harris - JURÁNEK, Ivo. Hypoxic ischemic lesion in neonatal rats assessed by MRI and MRS methods. In IV. Miniconference of PhD. students 2015 : abstract booklet. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2015, non pag. VEGA 2/0149/12. Typ: AFH
- JURÁNEK, Ivo. O prospešnosti voľných radikálov a negatívnom účinku antioxidantov: koniec teórie voľnoradikálových ochorení? In XXV. Diabetologické dni s medzinárodnou účasťou : zborník abstraktov. 27. - 29. 5. 2015, Martin. - Martin : Slovenská diabetologická spoločnosť, 2015, s. 18. ISBN 978-80-9707450-5-0. VEGA 2/0149/12. Typ: AFH

8.) Prenatálne programovanie psychiatrických porúch: experimentálne možnosti hodnotenia mechanizmov vzniku psychiatrických porúch na animálnych modeloch (*Prenatal programming of psychiatric diseases: experimental approaches for evaluation of causes and mechanisms of their origin*)

Zodpovedný riešiteľ: Mojmír Mach
Trvanie projektu: 1.1.2012 / 31.12.2015
Evidenčné číslo projektu: VEGA 2/0107/12
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 1 - Slovensko: 1
Čerpané financie: VEGA: 10740 €

Dosiahnuté výsledky:

Perinatálna asfyxia je jednou z hlavných príčin úmrtnosti novorodencov a príčina neurologických porúch v dospelosti. Cieľom tohto projektu bolo posúdiť vplyv subchronickej prenatálnej asfyxie (SPA) počas neskorého vývinu potkana na zmeny v správaní a ovplyvnenie kontroly krvného tlaku (KT) v dospelosti. Správanie podobné úzkosti bolo vyvolané SPA vo zvýšenom plusovom bludisku a Light/Dark preferenčnom teste. Vyššia odpoveď na stres bola pozorovaná v SPA skupine u oboch pohlaví. Intenzita lezenia na steny valca v Porsoltovom teste bola významne znížená u dospelých SPA samcov, čo tiež poukazuje na prejavy depresii podobného správania. Systolický TK a pulzný tlak (PT) boli výrazne zvýšené u SPA potkanov v porovnaní s kontrolou nezávisle od svetelného režimu. Z našich výsledkov vyplýva, že krátka prerušovaná asfyktická perióda na konci tehotenstva môže indukované úzkosti- a depresii podobné správanie u dospelých potomkov a zvýšiť TK a PT.

9.) Aldoketoreduktázy v chronických ochoreniach – in silico modelovanie významných enzýmov a ich komplexov s indolovými derivátmi (*Aldo-keto reductases in chronic diseases – in silico modeling of significant enzymes and their complexes with indole derivatives*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 1.1.2014 / 31.12.2017
Evidenčné číslo projektu: 2/0033/14
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 4790 €

Dosiahnuté výsledky:

- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridindole derivatives with multi-target-directed neuroprotective action. In MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Università degli Studi di Cagliari, 2015, p. 327. Typ: AFG
- BALLEKOVÁ, Jana - PASTAVROU, Nikolaos - IOANNIS, Nicolaou - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Novel pyrrol-1-yl-1-hydroxypyrazole derivatives as inhibitors of aldose reductase: potential implications for prevention of diabetic complications. In Chemistry and biology: A permanent dialogue. : Paris - Biocitech. February, 4-6, 2015. 22èmes Journées Jeunes Chercheurs. 22nd Young Research Fellows Meeting. - [Biocitech], [2015], p. non pag., PO-024. Typ: AFG
- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridindole derivatives with multi-target-directed neuroprotective action. In COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : COST, 2015, p. 34. Typ: AFG
- BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ŠOLTÉSOVÁ PRNOVÁ, Marta - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Multi-target directed compounds SMe1EC2 and CMTI. In IV. Miniconference of PhD. students 2015 : abstract booklet. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2015, non pag. Typ: AFH
- MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágel'ová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. Typ: AFF
- ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - MILÁČKOVÁ, Ivana - DIEZ-DACAL, Beatriz - PÉREZ-SALA, Dolores - CEYHAN, Seyma Muserref - BANERJEE, Sreepama - ŠTEFEK, Milan. [5-(Benzyloxy)-1H-indol-1-yl]acetic acid, an aldose reductase inhibitor and PPAR γ ligand. In Acta Biochimica Polonica, 2015, vol. 62, no. 3, p. 523-528. (1.153 - IF2014). ISSN 0001-527X. Typ: ADCA
- ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Cemtirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Università degli Studi di Cagliari, 2015, p. 329. . Typ: AFG
- ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Cemtirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : COST, 2015, p. 30. AFG
- ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In Journal of medicinal chemistry, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). ISSN 0022-2623. Typ: ADCA
- VISKUPIČOVÁ, Jana - ŠTROSOVÁ, Miriam - ŽIŽKOVÁ, Petronela - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Rutin stimulates sarcoplasmic reticulum Ca $^{2+}$ -ATPase activity (SERCA1) and protects SERCA1 from peroxynitrite mediated injury. In Molecular and Cellular Biochemistry : an international journal for chemical biology in health and disease, 2015, vol. 402, iss. 1-2, p. 51-62. (2.393 - IF2014). ISSN 0300-8177. Typ: ADCA
- VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Inhibition of the sarco/endoplasmic reticulum Ca $^{2+}$ -ATPase (SERCA1) by rutin derivatives. In Journal of Muscle Research and Cell Motility, 2015, vol. 36, p. 183-194. (2.086 - IF2014). ISSN 0142-4319. Typ: ADCA

10.) Kvasinky a ich možnosti pri ochrane integrity medzibunkových spojení vaskulárneho endotelu pred poškodením vyvolaným zápalom (*Yeasts in protection of endothelial intercellular connections against inflammation-induced injury*)

Zodpovedný riešiteľ: Ľudmila Okruhlicová
Zodpovedný riešiteľ v organizácii SAV: Ružena Sotníková
Trvanie projektu: 1.1.2013 / 31.12.2015
Evidenčné číslo projektu: 2/0065/13
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 2 - Slovensko: 2
Čerpané financie: 0

Dosiahnuté výsledky:

V projekte VEGA 2/0065/13 sa potkanom s rôznou predispozíciou k hypertenzii, ktorým sa lipopolysacharidmi vyvolal globálny zápal, podávali kvasinky s obsahom karotenoidov, alebo omega-3-mastné kyseliny (PUFA) a zisťoval sa ich účinok na funkciu a morfológiu aorty. Samotný zápal poškodil funkciu endotelu Wistar potkanov, hereditárne hypertriglyceridemických (hHTG) aj spontánne hypertenzných potkanov (SHR). Podávanie PUFA upravilo biochemické prejavy bakteriálneho zápalu a tiež endotelovú funkciu hHTG k normálnym hodnotám.

Výstupy:

- KRIŽÁK, Jakub - FRIMMEL, Karel - DURDIAKOVÁ, J. - BREIEROVÁ, Emília - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - OKRUHLICOVÁ, Ľudmila. The affectation of endothelial occludin expression by carotenoids per inflammation. In CEITEC PhD Retreat : Valtice, 23-24 April 2015. Book of abstracts. - Brno : Masaryk University, 2015, s. 59. ISBN 978-80-210-7825-3. VEGA 2/0065/13. Typ: AFG
- KRIŽÁK, Jakub - FRIMMEL, Karel - KAVECKÁ, M. - BREIEROVÁ, Emília - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - OKRUHLICOVÁ, Ľudmila. Účinok karotenoidov kvasinkovej biomasy na okludín tesných spojení endotelu aorty v podmienkach zápalu. In 91. Fyziologické dny : sborník souhrnů. - Brno : Fyziologický ústav LF MU, p. 63. ISSN 1801-6103. VEGA 2/0065/13. Typ: AFG
- KRIŽÁK, Jakub - FRIMMEL, Karel - DURDIAKOVÁ, J. - BREIEROVÁ, Emília - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - OKRUHLICOVÁ, Ľudmila. Can carotenoids affect aortic endothelial occludin expression during inflammation? In Advances in Cardiovascular Research : From the bench to the patient's bed, Program & Book of Abstracts, 2-5 September 2015, Smolenice, Slovakia. - Bratislava : VEDA, Publishing House of the Slovak Academy of Sciences, 2015, p. 78. ISBN 978-80-224-1452-4. VEGA 2/0065/13. Typ: AFH
- KAPRINAY, Barbara - SOTNÍKOVÁ, Ružena - LIPTÁK, Boris - KNEZL, Vladimír - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - FRIMMEL, Karel - KRIŽÁK, Jakub - OKRUHLICOVÁ, Ľudmila. Detrimental effect of LPS-induced inflammation on the rat heart and vessel function. In Advances in Cardiovascular Research : From the bench to the patient's bed, Program & Book of Abstracts, 2-5 September 2015, Smolenice, Slovakia. - Bratislava : VEDA, Publishing House of the Slovak Academy of Sciences, 2015, p. 76. ISBN 978-80-224-1452-4. VEGA 2/0065/13, 2/0054/15. Typ: AFHA

11.) Starnutie mozgu a neuroprotektívne antioxidanty: Ovplyvnenie glií ako terapeutická stratégia?

| | |
|---|--|
| Zodpovedný riešiteľ: | Lucia Račková |
| Trvanie projektu: | 1.1.2012 / 31.12.2015 |
| Evidenčné číslo projektu: | VEGA 2/0031/12 |
| Organizácia je koordinátorom projektu: | áno |
| Koordinátor: | Ústav experimentálnej farmakológie a toxikológie SAV |
| Počet spoluriešiteľských inštitúcií: | 0 |
| Čerpané financie: | VEGA: 10649 € |

Dosiahnuté výsledky:

Výsledky analýzy fluorescenčného farbenia filipínom ukázali, že pyridoindolový derivát SMe1EC2 pridaný do média znižuje obsah cholesterolu v membráne hepatocytov a BV-2 mikroglíí dokonca účinnejšie ako štandardné hypolipidemikum atorvastatin. Pyridoindol SMe1EC2 však v porovnaní s atorvastatinom vykázal oveľa nižšiu cytotoxicitu. Môže preto predstavovať účinnejšiu a bezpečnejšiu náhradu štandardných hypolipidemík [BEZEK, et al. TOXCON 2015, Brno, Program & abstrakty]. Suplementácia starých potkanov pyridoindolom SMe1EC2 počas 8 týždňov v dávke 0,5mg/kg viedla k zlepšeniu ich kognitívnych funkcií zistených testom v Morrisovom vodnom bludisku. K signifikantne ovplyvneným parametrom patrili čas úspešných pokusov, efektívnosť dráhy a rotácia tela zvierat. Suplementácia SMe1EC2 mierne znížila aj parametre vzdialenosť a trvanie pokusov.

Nový semisyntetický flavonoid, 4'-O-(2-chlóronaftochinón) kvercetín (CHNQ) ukázal účinky typické pre tzv. hormézu, čo je efekt pozorovaný aj pri iných chinónových derivátoch. Tento bol potvrdený ako zvýšená cytotoxicita a prooxidačná aktivita pri vyšších koncentráciách a paradoxne zvýšené priaznivé účinky pri nízkych dávkach na rozdiel od prekurzorových látok, chlórónaftochinónu (CHN) a kvercetínu (Q). Produkcia reaktívnych oxidantov bola sledovaná ako oxidácia fluorogénnych značiek DCFH a DHE v BV-2 mikroglíách ovplyvnených testovanými látkami. Paradoxne pri nižších testovaných koncentráciách CHNQ naúčinnejšie inhiboval prozápalové markery (produkciu NO a TNF α , expresiu iNOS a progresiu bunkového cyklu) v mikroglíách BV-2 stimulovaných bakteriálnym lipopolysacharidom. Výsledky štúdie poukazujú na terapeutický potenciál CHNQ ako nového semisyntetického hormetika pri neurodegeneratívnych ochoreniach súvisiacich so starnutím.

Výsledky imunocytochemickej analýzy ukázali, že gliová podporná vrstva získaná z mozgového tkaniva starých potkanov je na rozdiel od mladých kultúr homogénna a obsahuje predovšetkým mikrogliové bunky. Mladé kultúry popri mikroglíách obsahovali astrocyty a fibroblasty. Testované flavonoidy vykázali protektívne účinky na mikrogliové bunky v oboch typoch kultúr.

BEZEK, Štefan - MRVOVÁ, Nataša - RAČKOVÁ, Lucia - UJHÁZY, Eduard. Evaluation of cytotoxicity induced by t-BHP. In 20. Mezioborová Česko-Slovenská toxikologická konferencia. TOXCON 2015. Program & abstrakty. - Brno : Tribun EU, 2015, s. 30.

MRVOVÁ, Nataša - ŠKANDÍK, Martin - VEVERKA, Miroslav - RAČKOVÁ, Lucia. Anti-neuroinflammatory potential of novel lipophilic flavonoids. In Chemistry and biology: A permanent dialogue. : Paris - Biocitech. February, 4-6, 2015. 22èmes Journées Jeunes Chercheurs. 22nd Young Research Fellows Meeting. - [Biocitech], [2015], p.non pag., PO-091

MRVOVÁ, Nataša - KUNIAKOVÁ, Marcela - RAČKOVÁ, Lucia. Comparison of glial feeder layers derived from young and adult Wistar rats. In IV. Miniconference of PhD. students 2015 : abstract booklet. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2015, non pag

MRVOVÁ, Nataša - KUNIAKOVÁ, Marcela - RAČKOVÁ, Lucia. Charakterizácia podpornej gliovej vrstvy izolovanej z rôzne starých potkanov kmeňa Wistar. In Interaktívna konferencia mladých vedcov 2015 : book of abstracts. - Banská Bystrica : Občianske združenie Preveda, 2015, abstr. 1286, nestr

RAČKOVÁ, Lucia - KUNIAKOVÁ, Marcela. Acidotropic properties of synthetic hexahydropyridoindole antioxidants. In General Physiology and Biophysics, 2015, vol. 34, no. 4, p. 367-382.

MRVOVÁ, Nataša - ŠKANDÍK, Martin - KUNIAKOVÁ, Marcela - RAČKOVÁ, Lucia. Modulation of BV-2 microglia functions by novel quercetin pivaloyl ester. In *Neurochemistry International*, 2015, vol. 90, p. 246-254.

KUNIAKOVÁ, Marcela - MRVOVÁ, Nataša - KNEZL, Vladimír - RAČKOVÁ, Lucia. Effect of novel quercetin pivaloyl ester on function of adult rat microglia. In *Biologia: journal of the Slovak Academy of Sciences*, 2015, vol. 70, no. 5, p. 690-702.

12.) Deriváty kyseliny 1-indolactovej ako inhibítory aldózareduktázy: dizajn, syntéza a biologická aktivita (*Indole-1-acetic acid derivatives as aldose reductase inhibitors: design, synthesis and biological activity*)

Zodpovedný riešiteľ: Milan Štefek
Trvanie projektu: 1.1.2015 / 31.12.2017
Evidenčné číslo projektu: 2/0041/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 7992 €

13.) Mechanizmy, skorá detekcia a terapia asfyktického poškodenia v perinatálnom období – porovnanie experimentálnych údajov s klinickým obrazom asfyktického novorodenca

Zodpovedný riešiteľ: Eduard Ujházy
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0129/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 5270 €

Dosiahnuté výsledky:

Mliečna žľaza je dynamický orgán, ktorý počas vývinu prechádza štrukturálnymi a funkčnými zmenami spojenými s rastom, reprodukciou, a post - menopauzálnou regresiou. Postnatálna transformácia epitelu a stromálnych buniek mliečnej žľazy môže prispieť k jej vnímavosti ku karcinogéneze. Zvýšený výskyt nádorov mliečnej žľazy u ľudí aj u hlodavcov v súvislosti s jej vývinom čiastočne možno vysvetliť proliferáčnou aktivitou spojenou s nižším stupňom diferenciácie. Zatiaľ nie je celkom objasnený vyšší karcinogénny potenciál panenskej mliečnej žľazy. Prejavy súvisiace s rakovinou prsníka možno registrovať v mliečnej žľaze počas jej vývinového cyklu. Včasná gravidita môže mať ochranný účinok. Ako vhodné modely pre skúmanie potenciálu prsnej karcinogézy sa osvedčili hlodavce. Účelom tohto prehľadu je pomôcť pri rozpoznávaní histologického vzťahu epitelu a stromy normálnej mliečnej žľazy u potkanov počas jej vývinu vo vzťahu k jej nádorovému potenciálu.

14.) Protektívne účinky prírodných a syntetických látok pred oxidačným poškodením vysokomolekulového hyalurónanu, izolovaných živočíšnych buniek a ich mitochondrií

Zodpovedný riešiteľ: Katarína Valachová
Trvanie projektu: 1.1.2015 / 31.12.2018
Evidenčné číslo projektu: 2/0065/15
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 8412 €

Dosiahnuté výsledky:

Skúmali sme schopnosť tiolových liečiv – tiopronínu, kaptoprilu a levamizolu (donory atómu vodíka) inhibovať degradáciu hyalurónanu (HA) pôsobením Cu(II) iónov a askorbátu (produkcia OH radikálov a radikálov typu peroxy). Ako metódu sme použili rotačnú viskozimetriu. Elektrón-donorové vlastnosti liečiv sme sledovali metódami ABTS a DPPH. Z výsledkov rotačnej viskozimetrie vyplýva, že kaptopril a tiopronín preukázali takmer rovnaký účinok pri vychytávaní OH radikálov. Pri vychytávaní peroxy radikálov bol účinnejší tiopronín. Naproti tomu, levamizol pôsobil ako pro-oxidant. Výsledky ABTS a DPPH preukázali účinok tiopronínu a kaptoprilu pri zhášaní ABTS^{•+} a DPPH[•], zatiaľ čo levamizol účinný nebol. Fragmenty (HA) boli analyzované pomocou FT-IR, kde sme preukázali inkorporovanie atómu síry z tiopronínu a kaptoprilu, nie však z levamizolu do molekuly (HA).

Vynález PP 5032-2015 opisuje samoasociujúce biopolymérové membrány obsahujúce vysokomolekulovú kyselinu hyalurónovú alebo jej deriváty a chitosan alebo jeho deriváty, tvoriace spolu nosič pre antioxidantnú látku inkorporovanú v tomto nosiči, pričom polarita antioxidantnej látky je vždy opačná k polarite nosiča. Výhodnou antioxidantnou látkou inkorporovanou v nosiči sú zlúčeniny prenikajúce do mitochondrií. Biopolymérové membrány s obsahom antioxidantov sa používajú na liečenie akútnych a chronických poškodení kože a ťažko sa hojajúcich rán.

Programy: Iné projekty

15.) MVTS: Podnetné organické syntézy inšpirované prírodou – od chémie prírodných produktov po objav liečiv

Zodpovedný riešiteľ: Ľubica Horáková
Trvanie projektu: 1.3.2015 / 31.3.2019
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: MVTS: 3333 €

16.) CM1103 Štrukturálne podmienené navrhovanie liečiv na diagnózu a liečenie neurologických ochorení (CM1103 Structure-based drug design for diagnosis and treatment of neurological diseases)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 1.1.2014 / 27.11.2015
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 35 - Rakúsko: 1, Česko: 1, Nemecko: 2, Dánsko: 5, Španielsko: 5, Veľká Británia: 2, Chorvátsko: 3, Írsko: 2, Malta: 4, Poľsko: 1, Portugalsko: 2, Srbsko: 2, Slovinsko: 1, Turecko: 4
Čerpané financie:

Dosiahnuté výsledky:

ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In Journal of medicinal chemistry, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). (2015 - Current Contents). ISSN 0022-2623. Typ: ADCA

VISKUPIČOVÁ, Jana - ŠTROSOVÁ, Miriam - ŽIŽKOVÁ, Petronela - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Lubica. Rutin stimulates sarcoplasmic reticulum Ca²⁺-ATPase activity (SERCA1) and protects SERCA1 from peroxynitrite mediated injury. In Molecular and Cellular Biochemistry : an international journal for chemical biology in health and disease, 2015, vol. 402, iss. 1-2, p. 51-62. (2.393 - IF2014). (2015 - Current Contents). ISSN 0300-8177. Typ: ADCA

VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Lubica. Inhibition of the sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA1) by rutin derivatives. In Journal of Muscle Research and Cell Motility, 2015, vol. 36, p. 183-194. (2.086 - IF2014). (2015 - Current Contents). ISSN 0142-4319. Typ: ADCA

BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridoindole derivatives with multi-target-directed neuroprotective action. In MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Università degli Studi di Cagliari, 2015, p. 327. Typ: AFG

BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Novel indole and pyridoindole derivatives with multi-target-directed neuroprotective action. In COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : Typ: AFG

ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Cemtirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In MNS Mediterranean Neuroscience Society : 5th MNS Meeting Santa Margherita di Pula. - Santa Margherita di Pula : Università degli Studi di Cagliari, 2015, p. 329. Typ: AFG

ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - UNZETA, Mercedes - ESTEBAN, Gerard - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Cemtirestat, a novel aldose reductase and monoamine oxidase inhibitor, in multitarget directed neuroprotection. In COST CM1103 ESR Conference in Belgrade : computational chemistry for neurological targets. 6th - 8th May, Belgrade, Serbia. - Belgrade : Typ: AFG

BALLEKOVÁ, Jana - MÁJEKOVÁ, Magdaléna - ŠOLTÉSOVÁ PRNOVÁ, Marta - ESTEBAN, Gerard - UNZETA, Mercedes - ŠTEFEK, Milan. Multi-target directed compounds SMe1EC2 and CMTI. In IV. Miniconference of PhD. students 2015 : abstract booklet. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2015, non pag. Typ: AFH

Vyžiadaná prednáška:

MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágel'ová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. Typ: AFF

17.) MVTS Integrovaná európska platforma pre výskum rakoviny pankreasu: od základného výskumu ku opatreniam v klinickej medicíne a verejnom zdravotníctve v oblasti zriedkavých chorôb (*MVTS An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 1.6.2013 / 13.12.2016
Evidenčné číslo projektu:
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: mobilita

Dosiahnuté výsledky:

ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - MÁJEKOVÁ, Magdaléna - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Identification of novel aldose reductase inhibitors based on carboxymethylated mercaptotriazinoindole scaffold. In Journal of medicinal chemistry, 2015, vol. 58, no. 6, p. 2649-2657. (5.447 - IF2014). (2015 - Current Contents). ISSN 0022-2623. Typ: ADCA

VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Inhibition of the sarco/endoplasmic reticulum Ca²⁺-ATPase (SERCA1) by rutin derivatives. In Journal of Muscle Research and Cell Motility, 2015, vol. 36, p. 183-194. (2.086 - IF2014). (2015 - Current Contents). ISSN 0142-4319. Typ: ADCA

ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - MÁJEKOVÁ, Magdaléna - HORÁKOVÁ, Ľubica. Interakcia metylglyoxalu s Ca²⁺ -ATPázou zo sarkoplazmatického retikula kostrového svalu. In XXV. Diabetologické dni s medzinárodnou účasťou : zborník abstraktov. 27. - 29. 5. 2015, Martin. - Martin : Slovenská diabetologická spoločnosť, 2015, s. 40. ISBN 978-80-9707450-5-0. Typ: AFH

Vyžiadaná prednáška:

MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan - ŠOLTÉSOVÁ PRNOVÁ, Marta - BALLEKOVÁ, Jana - RECHLIN, Chris - HEINE, Andreas - KLEBE, Gerhard. Protein-inhibitor interactions in aldo-ketoreductase family. In SSB 2015. 9th International Conference Structure and Stability of Biomacromolecules : book of contributions. Editors: Jaroslav Bágel'ová, Diana Fedunová, Zuzana Gažová, Katarína Šipošová. - Košice : Institute of Experimental Physics, Slovak Academy of Sciences, 2015, p. 31-32. ISBN 978-80-89656-08-0. Typ: AFF

Príloha C

Publikačná činnosť organizácie (generovaná z ARL)

Skupina A1 - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

Počet záznamov: 2

ABC01 ŠOLTÉS, Ladislav - KOGAN, Grigorij. Hyaluronan: A harbinger of the status and functionality of the joint. In *Engineering of polymers and chemical complexity, Volume II.: New approaches, limitations and control.* - Toronto : Apple Academic Press, 2014, p. 259-286. ISBN 978-1-926895-87-1.

ABC02 VALACHOVÁ, Katarína - TAMER ABD-EL RAZIK, Tamer Mahmoud - ŠOLTÉS, Ladislav. Comparison of free-radical scavenging properties of glutathione under neutral and acidic conditions : chapter 20. In *Chemistry and chemical biology : methodologies and applications.* - Oakville : Apple Academic Press, CRC Press, 2015, p. 227-245. ISBN 978-1-77188-018-3.

Skupina A2 - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, EAI, CAA, CAB, EAJ, FAI)

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

Počet záznamov: 3

FAI01 *International miniconference of PhD students. IV. miniconference of PhD students : when biochemistry meets pharmacology and toxicology. 24th June 2015. Proceedings book.* Bratislava : Institute of Experimental Pharmacology and Toxicology SASc., 2015. 67 p. ISBN 978-80-971042-5-2.

FAI02 *Trendy v biomedicínskom výskume : 2015.* Editori: Igor M. Tomo, Michal Dubovický, Eduard Ujházy, Ingrid Brucknerová, Mojmir Mach. Recenzenti: Štefan Bezek, Jozef Zlatoš. Bratislava : Ústav experimentálnej farmakológie a toxikológie SAV, 2015. 92 s. ISBN 978-80-971042-4-5.

FAI03 *Interdisciplinary toxicology.* Editor-in-chief Michal Dubovický [2011-] ; deputy/managing editor Mojmir Mach [2008-] ; editor-in-chief Eduard Ujházy [2008-2010]. Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS. SCOPUS, MEDLINE. 4x ročne. ISSN 1337-6853.

Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, ADM, ADN, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)

AGJ Patentové prihlášky, prihlášky úžitkových vzorov, dizajnov, ochranných známok,...

Počet záznamov: 2

- AGJ01 ŠOLTÉS, Ladislav - TAMER ABD-EL RAZIK, Tamer Mahmoud - VEVERKA, Miroslav - VALACHOVÁ, Katarína - MOHY ELDIN, Mohamed Samir. *Samoasociujúce biopolymérne membrány ako nosiče liečivých prípravkov s antioxidantnými vlastnosťami a ich použitie : patentová prihláška č. PP 5032-2015, medzinárodné patentové triedenie: A61L15/00, verzia MPT: 16, dátum podania prihlášky: 10.07.2015, prihlasovateľ: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava, SK. Banská Bystrica : Úrad priemyselného vlastníctva Slovenskej republiky, 2015.*
- AGJ02 ŠTEFEK, Milan - MILÁČKOVÁ, Ivana - DIEZ-DACAL, Beatriz - PÉREZ-SALA, Dolores - ŠOLTÉSOVÁ PRNOVÁ, Marta. *Use of 5-carboxymethyl-3-mercapto-1,2,4-triazino-[5,6-B]indoles and their pharmaceutical composition : international publication number WO 2015/057175 A1. International publication date: 23 april 2015 (23.04.2015). Applicant: Ústav experimentálnej farmakológie a toxikológie SAV, Dúbravská cesta 9, 841 04 Bratislava (SK). International patent classification: A61K 31/53 (2006.01). World Intellectual Property Organization, 2015.*

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ADDA Vedecké práce v domácich karentovaných časopisoch impaktovaných

Počet záznamov: 6

- ADDA01 KUNIAKOVÁ, Marcela - MRVOVÁ, Nataša - KNEZL, Vladimír - RAČKOVÁ, Lucia. Effect of novel quercetin pivaloyl ester on function of adult rat microglia. In *Biologia : journal of the Slovak Academy of Sciences*, 2015, vol. 70, no. 5, p. 690-702. (0.827 - IF2014). (2015 - Current Contents). ISSN 0006-3088. VEGA 2/0031/12, VEGA 2/0076/13.

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ADEB Vedecké práce v ostatných zahraničných časopisoch neimpaktovaných

Počet záznamov: 7

- ADEB01 BAŇASOVÁ, Mária - KERNER, Lukáš - JURÁNEK, Ivo - PUTALA, Martin - VALACHOVÁ, Katarína - ŠOLTĚS, Ladislav. Radical scavenging capacity of N-(2-mercapto-2-methylpropionyl)- L-cysteine: design and synthesis of its derivatives with enhanced potential of scavenge hypochlorite. In *Journal of Information, Intelligence and Knowledge*, 2014, vol. 6, no. 4, p. 453-470. ISSN 1937-7983. VEGA 2/0011/11, VEGA 2/0149/12, APVV 0351-10.
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ADFB Vedecké práce v ostatných domácich časopisoch neimpaktovaných

Počet záznamov: 3

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ADMA Vedecké práce v zahraničných impaktovaných časopisoch registrovaných vo WOS Core Collection alebo SCOPUS

Počet záznamov: 3

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ADNA Vedecké práce v domácich impaktovaných časopisoch registrovaných vo WOS Core Collection alebo SCOPUS

Počet záznamov: 1

ADNA01 REVÁKOVÁ, Tatiana - VASILENKOVÁ, Alena - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír - BRUCKNEROVÁ, Ingrid. Impact of asphyxia on red blood cell folate concentration levels in newborns. In *Bratislavské lekárske listy*, 2015, roč. 116, č. 7, s. 417-421. (0.439 - IF2014). ISSN 0006-9248. GUK 320/2011, GUK 376/2012, VEGA 2/0081/11,.

AECA Vedecké práce v zahr. rec. zb. a kratšie kapitoly/state v zahraničných vedeckých monografiách alebo vysokoškolských učebniciach

Počet záznamov: 4

AECA01 KOVÁČIKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Substituted pyridoindoles as biological antioxidants: drug design, chemical synthesis, and biological activity. In *Advanced protocols in oxidative stress III*. - New York : Springer, 2015, p. 313-327. ISBN 978-1-4939-1440-1. ISSN 1064-3745. VEGA 2/0067/11.

AECA02 NOVÁK, Igor - MATYAŠOVSKÝ, Jan - JURKOVIČ, Peter - LEHOCKÝ, Marián - VESEL, Alenka - ŠOLTÉS, Ladislav. Polyvinylchloride antibacterial pre-treated by barrier plasma. In *Engineering of polymers and chemical complexity, Volume II.: New approaches, limitations and control*. - Toronto : Apple Academic Press, 2014, p. 287-296. ISBN 978-1-926895-87-1.

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AEDA Vedecké práce v dom. rec. zb. a kratšie kapitoly/state v domácich vedeckých monografiách alebo vysokoškolských učebniciach

Počet záznamov: 15

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Skupina B - Publikácie v karentovaných vedeckých časopisoch a autorské osvedčenia, patenty a objavy (ADC, ADD, ADM, ADN, AEG, AEH, BDC, BDD, CDC, CDD, AGJ)

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AEC Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch (aj konferenčných), monografiách

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AFG Abstrakty príspevkov zo zahraničných konferencií

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Ohlasy:
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- ADFB18 MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - HARMATHA, Juraj - SVITEKOVÁ, Klára - NOSÁL, Radomír. Effect of stilbene derivative on superoxide generation and enzyme release from human neutrophils in vitro. In *Interdisciplinary toxicology*, 2012, vol. 5, no. 2, p. 71-75. ISSN 1337-6853. ITMS 26240220005, VEGA 2/0003/10.
Ohlasy:
1. [1.1] ROCA, P. - SASTRE-SERRA, J. - NADAL-SERRANO, M. - GABRIEL PONS, D. - DEL MAR BLANQUER-ROSSELLO, M. - OLIVER, J. Phytoestrogens and Mitochondrial Biogenesis in Breast Cancer. Influence of Estrogen Receptors Ratio. In *CURRENT PHARMACEUTICAL DESIGN*. ISSN 1381-6128, 2014, vol. 20, no. 35, p. 5594-5618., WOS
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- Ohlasy:
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- ADFB21 NOSÁLOVÁ, Viera - SOTNÍKOVÁ, Ružena - DRÁBIKOVÁ, Katarína - FIALOVÁ, Silvia - KOŠTÁLOVÁ, Daniela - BANÁŠOVÁ, Silvia - NAVAROVÁ, Jana. Chemiluminescence response induced by mesenteric ischaemia/reperfusion: effect of antioxidative compounds ex vivo. In *Interdisciplinary toxicology*, 2010, vol. 3, no. 3, p. 105 - 108. ISSN 1337-6853.
- Ohlasy:
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- Ohlasy:
- [1.1] SARAVANAN, S. - PANDIKUMAR, P. - BABU, N. Prakash - ISLAM, V. I. Hairul - THIRUGNANASAMBANTHAM, K. - PAULRAJ, M. Gabriel - BALAKRISHNA, K. - IGNACIMUTHU, S. In Vivo and In Vitro Immunomodulatory Potential of Swertiamarin Isolated from *Enicostema axillare* (Lam.) A. Raynal That Acts as an Anti-inflammatory Agent. In INFLAMMATION. ISSN 0360-3997, 2014, vol. 37, no. 5, p. 1374-1388., WOS
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1. [2.2] BALCERCZYK, A. - BARTOSZ, G. - DRZEWINSKA, J. - PIOTROWSKI, L. - PULASKI, L. - STEFEK, M. Antioxidant action of SMe1EC2, the low-basicity derivative of the pyridoindole stobadine, in cell free chemical models and at cellular level. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2014, vol. 7, no. 1, p. 27-32, SCOPUS

ADFB28 UJHÁZY, Eduard - MACH, Mojmír - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - DUBOVICKÝ, Michal. Teratology - past, present and future. In *Interdisciplinary toxicology*, 2012, vol. 5, no. 4, p. 163-168. ISSN 1337-6853. VEGA 2/0081/11, VEGA 2/0084/11, ITMS 2624022005.

Ohlasy:

1. [1.1] FERRER, J. - FERNANDEZ-LOPEZ, J. - FERNANDEZ GONZALEZ, A. - FERNANDEZ MENENDEZ, D. - TORRALBA-BURRIAL, A. Unusual teratology for a tenebrionid: antennal schistomelia in probaticus granulatus (allard, 1876) (coleoptera: tenebrionidae). In COLEOPTERISTS BULLETIN. ISSN 0010-065X; 1938-4394, 2014, vol. 68, no. 1, p. 139-142., WOS

ADFB29 VALACHOVÁ, Katarína - KOGAN, Grigorij - GEMEINER, Peter - ŠOLTĚS, Ladislav. Protective effects of manganese(II) chloride on hyaluronan degradation byoxidative system ascorbate plus cupric chloride. In *Interdisciplinary toxicology*, 2010, vol. 3, no.1, p. 26-34. ISSN 1337-6853.

Ohlasy:

1. [1.2] SANSONE, V. - CONSONNI, O. - MAIORANO, E. Nutraceuticals and chondroprotective agents for the treatment of osteoarthritis: A narrative review. A controversial resource in the treatment of osteoarthritis. In MINERVA ORTOPEDECA E TRAUMATOLOGICA. ISSN 0394-3410, 2014, vol. 65, no. 1, p. 61-72, SCOPUS

AFHA Abstrakty príspevkov z medzinárodných vedeckých konferenciách poriadaných v SR

Počet záznamov: 1

AFHA01 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - PRIESOLOVÁ, Elena - NAGY, Milan - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Scavenging and chain-breaking activity of bucillamine on free-radical-mediated degradation of high-molar-mass hyaluronan. In *ChemZi : slovenský časopis o chémii pre chemické vzdelávanie, výskum a priemysel*, 2011, roč. 7, č.13, s. 205-206. ISSN 1336-7242. VEGA 2/0083/09, VEGA 2/0011/11, VEGA 2/0081/11.

Ohlasy:

1. [3] OMER, A.M. - TAMER, M. T. - MOHYELDIN, M.S. High-molecular weight of biopolymer. In SCIENCE JOURNAL OF VOLGOGRAD STATE UNIVERSITY : TECHNOLOGY AND INNOVATIONS. ISSN 2305-7815, 2014, vol. 12, no. 3, p. 56-70

DAI Dizertačné a habilitačné práce

Počet záznamov: 1

DAI01 STANKOVSKÁ, Monika. *Degradácia hyalurónanu rôznymi oxidačnými systémami: Návrh relevantných modelov testovania inhibičných účinkov látok v úlohe antioxidantov : autoreferát dizertačnej práce na získanie vedeckej hodnosti philosophiae doctor v odbore doktorandského štúdia: 14-10-9 Biochémia*. Školiteľ: Peter Gemeiner. Bratislava, 2006. 22 s.

Ohlasy:

1. [3] VALACHOVA, K. – BANASOVA, M. – MACHOVA, L. – JURANEK, I. – BEZEK, S. – SOLTES, L. Practical hints on testing various hexahydropyridoindoles to act as antioxidants. Chapt. 6. In CHEMISTRY AND PHYSICS OF MODERN MATERIALS. PROCESSING, PRODUCTION AND APPLICATIONS. eds. Aneli, J.S. et all. Toronto, Apple Academic Press 2014. P. 139-158, ISBN 978-1-926895-45-1

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

PharmDr. Katarína Bauerová, PhD., DrSc.

Názov semestr. predmetu: Farmakokinetické parametre a biologická dostupnosť

Počet hodín za semester: 8

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra galenickej farmácie

Ing. Lucia Račková, PhD.

Názov semestr. predmetu: Biomolekulový dizajn

Počet hodín za semester: 14

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie výživy a hodnotenia potravín

Mgr. Lukáš Slovák

Názov semestr. predmetu: Vybrané kapitoly z farmakológie

Počet hodín za semester: 8

Názov katedry a vysokej školy: Jesseniova lekárska fakulta UK v Martine, Katedra farmakológie

Doc. RNDr. Eduard Ujházy, CSc.

Názov semestr. predmetu: Základy experimentálnej teratológie

Počet hodín za semester: 20

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra živočíšnej fyziológie a etológie

Semestrálne cvičenia:

Doc. RNDr. Eduard Ujházy, CSc.

Názov semestr. predmetu: Základy experimentálnej teratológie

Počet hodín za semester: 10

Názov katedry a vysokej školy: Prírodovedecká fakulta UK, Katedra živočíšnej fyziológie a etológie

Semináre:

Terénne cvičenia:

Individuálne prednášky:

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

| Krajina | D r u h d o h o d y | | | | | |
|----------------------------|-----------------------|------------|-----------------|-----------|-------------------------|------------|
| | MAD, KD, VTS | | Medziústavná | | Ostatné | |
| | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní | Meno pracovníka | Počet dní |
| Belgicko | | | | | Jana Lomenová | 4 |
| Česko | Petronela Rezbáriková | 90 | | | | |
| Egypt | | | | | Dominika Topoľská | 10 |
| | | | | | Katarína Valachová | 10 |
| Grécko | | | | | Romana Koprlová | 40 |
| Maďarsko | | | | | Eszter Császár | 60 |
| Nemecko | | | | | Romana Koprlová | 150 |
| Poľsko | | | | | Kristína Melicherčíková | 6 |
| Rakúsko | | | | | Natália Sedláčková | 30 |
| Taliansko | | | | | Ľubica Horáková | 4 |
| Turecko | Jana Balleková | 42 | | | | |
| | Milan Štefek | 8 | | | | |
| Počet vyslaní spolu | 3 | 140 | | | 9 | 314 |

(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 |
| Česko | Mgr.Perečko, PhD. | 16 | Katarína Vorčáková | 30 | Dr.Číž, PhD. | 1 |
| | Mgr.Vašíček, PhD. | 16 | | | Mgr. Perečko, PhD. | 2 |
| | | | | | Mgr.Vašíček, PhD. | 2 |
| Gruzínsko | | | | | Tamara Chachibaia | 150 |
| India | | | | | dr.Joy Harris HOSKERI | 180 |
| Portugalsko | | | | | Daniel da Silva | 150 |
| Taliansko | Dr. Russo | 5 | | | | |
| | Prof. Gardi | 5 | | | | |
| Počet prijatí spolu | 4 | 42 | 1 | 30 | 6 | 485 |

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

| Krajina | Názov konferencie | Meno pracovníka | Počet dní |
|------------|-----------------------|-------------------------|-----------|
| Česko | FD | Katarína Bauerová | 3 |
| | | Viera Jančinová | 3 |
| | | Radomír Nosál | 3 |
| | | Silvia Pažoureková | 3 |
| | | Silvester Poništ | 3 |
| | | Petronela Rezbáriková | 2 |
| | | Veronika Stará | 3 |
| | IMUINO | Eszter Császár | 3 |
| | | Romana Koprlová | 3 |
| | TOXCON 2015 | Štefan Bezek | 3 |
| | | Eszter Császár | 3 |
| | | Michal Dubovický | 3 |
| | | Ivo Juránek | 3 |
| | | Barbara Kaprinay | 3 |
| | | Mojmír Mach | 3 |
| | | Kristína Melicherčíková | 3 |
| | | Silvester Poništ | 3 |
| | | Veronika Stará | 3 |
| | | Eduard Ujházy | 3 |
| Francúzsko | Chemistry and biology | Nataša Mrvová | 3 |
| | YRFM | Jana Balleková | 3 |
| | | Marta Šoltéssová Prnová | 3 |
| Grécko | JMMC | Jana Balleková | 4 |
| | | Marta Šoltéssová Prnová | 4 |
| | | Milan Štefek | 4 |

| | | | |
|--------------|-------------------|-------------------------|------------|
| Malta | Malta-Polyphenols | Katarína Bauerová | 5 |
| Nemecko | SFRR-E Meeting | Lucia Račková | 3 |
| Poľsko | Neuronus | Ivo Juránek | 3 |
| Portugalsko | EUROTOX | Eszter Császár | 4 |
| | | Mojmír Mach | 6 |
| Srbsko | CM1103 | Jana Balleková | 3 |
| | | Magdaléna Májeková | 3 |
| | | Marta Šoltéssová Prnová | 3 |
| Španielsko | AMEPC | Magdaléna Májeková | 3 |
| Taliansko | MNSM | Jana Balleková | 4 |
| | | Magdaléna Májeková | 4 |
| | | Marta Šoltéssová Prnová | 4 |
| Turecko | ICMBA | Jana Balleková | 3 |
| | ISPS | Marta Šoltéssová Prnová | 4 |
| | TUBITAK | Milan Štefek | 3 |
| Spolu | 16 | 40 | 132 |

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

Skratky použité v tabuľke C:

AMEPC - 47th Annual Meeting of the European Pancreatic Club, Toledo, Spain 24 - 26 June 2015
Chemistry and biology - Chemistry and biology: A permanent dialogue. 22nd Young Research Fellows Meeting
CM1103 - COST CM1103 ESR Conference in Belgrade: computational chemistry for neurological targets
EUROTOX - 51st Congress of European Toxicology Societies EUROTOX
FD - 65. Farmakologické dni
ICMBA - IV. International Congress of Molecular Biology Association of Turkey
IMUINO - Imunohistochemický workshop
ISPS - 11th International Symposium on Pharmaceutical Sciences
JMMC - IXth Joint Meeting in Medicinal Chemistry
Malta-Polyphenols - Malta-Polyphenols
MNSM - Mediterranean Neuroscience Society Meeting 2015, COST CM1103 ESR Conference in Sardinia
Neuronus - Neuronus-2015
SFRR-E Meeting - Redox biology meets nutrition SFRR-E Meeting 2015 Stuttgart
TOXCON 2015 - TOXCON. 20. Medziodborová česko-slovenská toxikologická konferencia
TUBITAK - Joint Scientific Workshop SAS – TÜBITAK MAM Gebze
YRFM - 22nd Young Research Fellows Meeting - Chemistry and biology: A permanent dialogue