

Ústav experimentálnej farmakológie a toxikológie SAV



Správa o činnosti organizácie SAV za rok 2012

Bratislava
január 2013

Obsah osnovy Správy o činnosti organizácie SAV za rok 2012

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 v SR
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 31.12.2012*
- 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.

1. zástupca riaditeľa: RNDr. Mojmír Mach, PhD.

2. zástupca riaditeľa: MVDr. Štefan Bezek, DrSc.

Vedecký tajomník: RNDr. Tatiana Mačičková, PhD.

Predseda vedeckej rady: Ing. Milan Štefek, PhD.

Člen snemu SAV: RNDr. Michal Dubovický, CSc.

Adresa: Dúbravská cesta 9, 841 04 Bratislava

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

Tel.: 02/ 5941 0651, 652

Fax:

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**
MVDr. Andrej Gajdošík

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	58	23	35	6	3	56	55,05	33,8
Vedeckí pracovníci	30	14	16	3	3	29	27,8	26,8
Odborní pracovníci VŠ	5	2	3	1	0	5	4,25	4
Odborní pracovníci ÚS	18	4	14	1	0	18	19	3
Ostatní pracovníci	5	3	2	1	0	4	4	0

K – kmeňový stav zamestnancov v pracovnom pomere k 31.12.2012 (uvádzať zamestnancov v pracovnom pomere, vrátane riadnej materskej dovolenky, zamestnancov pôsobiacich v zahraničí, v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

F – fyzický stav zamestnancov k 31.12.2012 (bez riadnej materskej dovolenky, zamestnancov

pôsobiacich v zahraničí v štátnych funkciách, členov Predsedníctva SAV, zamestnancov pôsobiacich v zastupiteľských zboroch)

P – celoročný priemerný prepočítaný počet zamestnancov

T – celoročný priemerný prepočítaný počet riešiteľov projektov

M, Ž – muži, ženy

Tabuľka 1b Štruktúra vedeckých pracovníkov (kmeňový stav k 31.12.2012)

Rodová skladba	Pracovníci s hodnosťou				Vedeckí pracovníci v stupňoch		
	DrSc.	CSc./PhD.	prof.	doc.	I.	IIa.	IIb.
Muži	4	10	2	1	6	5	3
Ženy	1	16	0	1	1	13	2

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	3	2	1	0	2	0	0	4	3
Ženy	1	1	2	0	0	5	5	3	3

Tabuľka 1d Priemerný vek zamestnancov organizácie k 31.12.2012

	Kmeňoví zamestnanci	Vedeckí pracovníci	Riešitelia projektov
Muži	49,1	51,1	49,3
Ženy	53,3	51,3	54,1
Spolu	51,7	51,2	52,1

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 Zoznam domácich projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
	A	B	A		B
			spolu	pre organi- záciu	
1. Vedecké projekty, ktoré boli r. 2012 financované VEGA	11	1	91681	-	9854
2. Projekty, ktoré boli r. 2012 financované APVV	1	3	58114	-	6567
3. Projekty OP ŠF	1	2	-	-	18061
4. Projekty centier excelentnosti SAV	0	0	-	-	-
5. Iné projekty (FM EHP, ŠPVV, Vedecko-technické projekty, ESF, na objednávku rezortov a pod.)	1	0	4000	-	-

A - organizácia je nositeľom projektu

B - organizácia sa zmluvne podieľa na riešení projektu

Tabuľka 2b Zoznam domácich projektov podaných v roku 2012

Štruktúra projektov	Miesto podania	Organizácia je nositeľom projektu	Organizácia sa zmluvne podieľa na riešení projektu
1. Účasť na nových výzvach APVV r. 2012	-	1	
2. Projekty výziev OP ŠF podané r. 2012	Bratislava		
	Regióny	1	
3. Projekty výziev FM EHP podané r. 2012	-		

2.2. Medzinárodné projekty

2.2.1. Medzinárodné projekty riešené v roku 2012

Tabuľka 2c Zoznam medzinárodných projektov riešených v roku 2012

ŠTRUKTÚRA PROJEKTOV	Počet projektov		Čerpané financie za rok 2012 (v €)		
	A	B	A		B
			spolu	pre organizáciu	
1. Projekty 6. a 7. rámcového programu EÚ	0	1	-	-	4000
2. Multilaterálne projekty v rámci vedeckých programov COST, ERANET, INTAS, EUREKA, PHARE, NATO, UNESCO, CERN, IAEA, ESF (European Science Foundation), ERDF, ESA a iné	0	5	-	-	13330
3. Projekty v rámci medzivládnych dohôd o vedecko-technickej spolupráci	0	0	-	-	-
4. Bilaterálne projekty	2	0	-	-	-
5. Podpora medzinárodnej spolupráce z národných zdrojov (MVTs, APVV,...)	0	0	-	-	-
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 podané v roku 2012

Tabuľka 2d Podané projekty 7. RP EÚ v roku 2012

	A	B
Počet podaných projektov v 7. RP EÚ		1

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 v ďalších výzvach:

OPVaV-2013/1.1/ na predkladanie žiadostí o NFP v rámci OP Výskum a vývoj pre opatrenie 1.1 Obnova a budovanie technickej infraštruktúry výskumu a vývoja.

Pripravíme projekt na obnovu vedeckej infraštruktúry pre detašované pracovisko na Dobrej Vode (okres Trnava).

Ústav sa ďalej bude podieľať na príprave návrhu **projektu Vedecko technického parku „Biomedicina“**, ktorý koordinuje II. oddelenie vied SAV.

2.3. Najvýznamnejšie výsledky vedeckej práce

2.3.1. Základný výskum

Štúdium účinku polyfenolických látok na aktivitu a apoptózu ľudských neutrofilov a serínproteáz.

Neutrofily (neutrofilné polymorfonukleárne leukocyty) sú nielen dôležitými bunkami imunitného systému ale aj aktívnymi účastníkmi pri vzniku a rozvoji viacerých patologických stavov ako reumatoidná artritída alebo cystická fibróza. Tieto stavy sú spojené s pretrvávajúcou nadmernou aktiváciou a oneskorenou apoptózou neutrofilov, ktoré vedú k poškodeniu tkanív. Regulácia aktivity neutrofilov predstavuje jeden z dôležitých faktorov v rozvoji resp. ukončení zápalovej reakcie. V súčasnosti sa venuje veľká pozornosť polyfenolickým látkam prírodného pôvodu, nakoľko mnohé z nich majú účinky, ktoré by sa dali využiť v prevencii a podpornej liečbe chronických zápalových ochorení. Prírodné polyfenoly sú známe svojim proapoptotickým pôsobením na rôzne typy nádorových buniek.

Syntetizovali a testovali sme sústavu 21 derivátov polyfenolických látok vzniknutých esterifikáciou rutínu, floridzínu a eskulínu. Zistili sme ich inhibičnú schopnosť voči enzýmom trypsín, trombín, urokináza a elastáza. Niektoré deriváty ukázali výrazne zvýšenú hodnotu inhibičnej aktivity v porovnaní s aktivitou pôvodných látok. QSAR štúdium a klastrová analýza sústavy derivátov poskytli údaje na syntézu účinných derivátov voči serínproteázam.

Taktiež sme sledovali účinok syntetických derivátov prírodných polyfenolov (deriváty stilbenu-resveratrol, pterostilbén, pinosylvín a piceatannol a deriváty kyseliny ferulovej - kurkumín a N-feruloyl sérotonín) na aktivitu ľudských neutrofilov z hľadiska ovplyvnenia respiračného vzplanutia a aktivácie proteínkinázy C.

Inhibičný účinok na produkciu oxidantov v ľudských neutrofiloch sme pozorovali u všetkých testovaných látok, pričom pôsobili extracelulárne (poradie účinnosti podľa hodnôt IC₅₀: resveratrol > N-feruloyl sérotonín ≥ kurkumín > piceatannol > pterostilbén > pinosylvín), ako aj intracelulárne (poradie účinnosti podľa hodnôt IC₅₀: kurkumín > pinosylvín > resveratrol > N-feruloyl sérotonín > piceatannol > pterostilbén). Ďalej sme charakterizovali miesta zásahu testovaných látok, ktoré boli účinné intracelulárne (kurkumín, resveratrol, N-feruloyl sérotonín, piceatannol a pinosylvín). Hlavná pozornosť sa venovala proteínkináze C a jej izoformám alfa, beta II, ktoré sa podieľajú na

regulácii aktivácie NADPH oxidázy a tvorbe oxidantov. Ukázali sme, že u testovaných látok bola inhibícia oxidačného vzplanutia sprevádzaná zníženou fosforyláciou izoforiem PKC alfa a beta II. Podobne tieto látky indukovali apoptózu neutrofilov (kurkumín, resveratrol, piceatannol) a zvyšovali aktivitu kaspázy-3, enzýmu, ktorý zodpovedá za exekučnú fázu apoptózy (pterostilbén, pinosylvín, kurkumín). Výsledky naznačujú, že niektoré prírodné polyfenoly sú schopné nielen inhibovať procesy spojené so vznikom a rozvojom zápalu, ale môžu podporovať aj ukončenie zápalovej reakcie - prostredníctvom indukcie apoptózy neutrofilov.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁĽ, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Pharmacological modulation of activated neutrophils by natural polyphenols : chapt. 2. In Recent Research Developments in Pharmacology. Vol. 2. - Trivandrum : Research Signpost, 2011, p. 27-67. ISBN 987-81-308-0455-2. Vyšlo v r. 2012.

JANČINOVÁ, Viera - PEREČKO, Tomáš - NOSÁĽ, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - DRÁBIKOVÁ, Katarína. The natural stilbenoid pinosylvin and activated neutrophils: effects on oxidative burst, protein kinase C, apoptosis and efficiency in adjuvant arthritis. In Acta Pharmacologica Sinica : official journal of the Chinese Pharmacological Society and Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 2012, vol. 33, no. 10, p. 1285-1292. (1.953 - IF2011). ISSN 1671-4083. (1.953 IF2011).

NOSÁĽ, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj. K mechanizmu inhibície oxidačného vzplanutia neutrofilných leukocytov prírodnými polyfenolmi. In Nové trendy vo farmakoterapii IV. : zborník prác. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 82-87. ISBN 978-80-89544-32-5.

DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁĽ, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Polyphenol derivatives – potential regulators of neutrophil activity. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 65-70. doi: 10.2478/v10102-012-0010-9. ISSN 1337-6853.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁĽ, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Effect of stilbene derivatives on human neutrophil viability. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 109-117. ISBN 978-80-971042-0-7.

JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁĽ, Radomír - DRÁBIKOVÁ, Katarína. Decreased activity and accelerated apoptosis of neutrophils in the presence of natural polyphenols. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 59-64. doi: 10.2478/v10102-012-0010-9. ISSN 1337-6853.

JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁĽ, Radomír - DRÁBIKOVÁ, Katarína. Pharmacological inhibition of neutrophil pro-inflammatory activity. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 66-75. ISBN 978-80-971042-0-7.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁĽ, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Involvement of caspase-3 in stilbene derivatives induced apoptosis of human neutrophils *in vitro*. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 76-80. ISSN 1337-6853. doi: 10.2478/v10102-012-0010-9.

VISKUPIČOVÁ, Jana - DANIHELOVÁ, Martina - MÁJEKOVÁ, Magdaléna - LIPTAJ, Tibor - ŠTURDÍK, Ernest. Polyphenol fatty acid esters as serine protease inhibitors: a quantum-chemical QSAR analysis. In Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, vol. 27, no. 6, p. 800-809. (1.617 - IF2011). ISSN 1475-6366.

2.3.2. Aplikačný typ

Semi-syntetické deriváty kvercetínu a ich farmakologické využitie

Vynález sa týka semi-syntetických derivátov kvercetínu, ktoré sú užitočné ako bifunkčné agens kombinujúce antioxidačnú aktivitu so schopnosťou inhibovať aldózareduktázu, prvý enzým polyolovej dráhy, na liečbu a kontrolu humánných chorôb kde oxidačný stres a polyolová dráha sú kľúčovými etiologickými faktormi, vrátane vývoja neskorých diabetických komplikácií (makro- a

mikroangiopatia, ateroskleróza, retinopatia, katarakta, nefropatia a neuropatia), rezistencia hepatálneho karcinómu na chemoterapiu, abnormálnej proliferácie vaskulárnych hladkosvalových buniek počas aterosklerózy a restenózy, zápalových ochorení ako je uveitída, sepsa, rakovina hrubého čreva, periodontitída a astma. VEGA 2/0067/11

ŠTEFEK, Milan - KOVÁČIKOVÁ, Lucia - MILÁČKOVÁ, Ivana - VEVERKA, Miroslav - ŠVAJDLENKA, Emil - VEVERKOVÁ, Eva. Deriváty kvercetínu, farmaceutická kompozícia s ich obsahom a ich použitie. Patentová prihláška č. 5006-2012.

2.3.3. Medzinárodné vedecké projekty

Rozdielny účinok H1 a H4 antagonistov na aktivitu ľudských neutrofilov

Polymorfonukleárne leukocyty (neutrofily) sú dôležitou zložkou imunitného systému, kde hrajú kľúčovú úlohu vo fagocytóze cudzorodých patogénov a ich následnej deštrukcii počas zápalu. Histamín je biogénny amín, ktorý reguluje zápalové reakcie v organizme prostredníctvom 4 typov histamínových receptorov (H1-H4). V našich predošlých prácach sme informovali o ovplyvnení oxidačného vzplanutia ľudských neutrofilov prostredníctvom H1 antagonistov prvej a druhej generácie. H1 antagonisti inhibovali extra- aj intra-celulárnu produkciu reaktívnych foriem kyslíka (RFK) v neutrofiloch. Na rozdiel od H1 antagonistov, blokátory H4 receptoru JNJ7777120 a JNJ10191584 neinhibovali produkciu RFK ani v plnej ľudskej krvi ani v izolovaných neutrofiloch. V spolupráci s kolegami z Queen's University Belfast sme zistili, že H4 antagonisti blokujú inhibičný účinok histamínu na degranuláciu ľudských neutrofilov stimulovaných formyl-metionyl-leucyl-fenylalanínom, ktoré boli inkubované na fibrinogéne potiahnutých kultivačných miskách. Keďže prítomnosť H4 receptorov na neutrofiloch je stále predmetom výskumu, pomocou konfokálnej mikroskopie sme zistili prítomnosť H4 receptorov na neutrofiloch. Naše výsledky spolu s výsledkami našich kolegov naznačujú rozdielny mechanizmus účinku H1 a H4 antagonistov na funkcie ľudských neutrofilov.

NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. H1 versus H4 anti-histamines in human neutrophil oxidative burst. *Inflamm. Res.* (2012) 61 (Suppl 2):S49 DOI 10.1007/s00011-012-0531-x (2.109-IF2011).

PEREČKO, T. - BROWN, V. - COMER, D. - THURMOND, R. - DIB, K. - ENNIS, M. The histamine H4 receptor blunts neutrophil degranulation by preventing beta 2 integrin-dependent signalling. *Inflamm. Res.* (2012) 61 (Suppl 2):S49 DOI 10.1007/s00011-012-0531-x (2.109-IF2011).

NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. Porovnanie účinku H1 a H4 antihistaminík na oxidatívne vzplanutie neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 74. ISBN 978-80-8143-020-6.

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. 2012/ doplňky z r. 2011	B Počet v r. 2012/ doplňky z r. 2011	C Počet v r. 2012/ doplňky z r. 2011
1. Vedecké monografie vydané v domácich vydavateľstvách (AAB, ABB, CAB)	2 / 0	0 / 0	0 / 0
2. Vedecké monografie vydané v zahraničných vydavateľstvách (AAA, ABA, CAA)	0 / 0	0 / 0	0 / 0
3. Odborné monografie, vysokoškolské učebnice a učebné texty vydané v domácich vydavateľstvách (BAB, ACB)	1 / 0	0 / 0	0 / 0
4. Odborné monografie a vysokoškolské učebnice a učebné texty vydané v zahraničných vydavateľstvách (BAA, ACA)	0 / 0	0 / 0	0 / 0
5. Kapitoly vo vedeckých monografiách vydaných v domácich vydavateľstvách (ABD, ACD)	0 / 0	0 / 0	0 / 0
6. Kapitoly vo vedeckých monografiách vydaných v zahraničných vydavateľstvách (ABC, ACC)	4 / 0	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 v časopisoch evidovaných v Current Contents (ADC, ADCA, ADCB, ADD, ADDA, ADDB, CDC, CDCA, CDCB, CDD, CDDA, CDDB, BDC, BDCA, BDCB, BDD, BDDA, Bddb)	18 / 1	0 / 0	0 / 0
10. Vedecké a odborné práce v nekarentovaných časopisoch (ADE, ADEA, ADEB, ADF, ADFA, ADFB, CDE, CDEA, CDEB, CDF, CDFA, CDFB, BDE, BDEA, BDEB, BDF, BDFA, BDFB)	14 / 0	0 / 0	0 / 0
11. Vedecké a odborné práce v zborníkoch (konferenčných aj nekonferenčných, vydaných tlačou alebo na CD)			
a/ recenzovaných, editované (AEC, AED, AFA, AFB, AFBA, AFBB, BEC, BED, CEC, CED)	23 / 0	0 / 0	0 / 0
b/ nerecenzovaných (AEE, AEF, AFC, AFD, AFDA, AFDB, BEE, BEF)	5 / 0	0 / 0	0 / 0

12. Vydané periodiká evidované v Current Contents	0	0	0
13. Ostatné vydané periodiká	1	0	0
14. Vydané alebo editované zborníky z vedeckých podujatí (FAI)	0/0	1/1	0/0
15. Vedecké práce uverejnené na internete (GHG)	0 / 0	0 / 0	0 / 0
16. Preklady vedeckých a odborných textov (EAJ)	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. 2011/ doplňky z r. 2010	B Počet v r. 2011/ doplňky z r. 2010
Citácie vo WOS (1.1, 2.1)	700 / 4	0 / 0
Citácie v SCOPUS (1.2, 2.2)	115 / 2	0 / 0
Citácie v iných citačných indexoch a databázach (9, 10)	0 / 0	0 / 0
Citácie v publikáciách neregistrovaných v citačných indexoch (3, 4)	20 / 2	0 / 0
Recenzie na práce autorov z organizácie (5, 6, 7, 8)	0 / 0	0 / 0

2.5. Aktívna účasť na vedeckých podujatiach

Tabuľka 2g Vedecké podujatia

Prednášky a vývesky na medzinárodných vedeckých podujatiach	23
Prednášky a vývesky na domácich vedeckých podujatiach	26

2.6. Vyžiadané prednášky

2.6.1. Vyžiadané prednášky na medzinárodných vedeckých podujatiach

GÁSPÁROVÁ, Zdenka - JANEGA, Pavol - STARÁ, Veronika - UJHÁZY, Eduard. Neurodegeneration induced by trimethyltin in male Wistar rat hippocampus: electrophysiological and morphological aspects. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 38. ISBN 978-80-8143-020-6. VEGA 2/0048/11, VEGA 2/0081/11.

SOTNÍKOVÁ, Ružena - OKRUHLICOVÁ, Ľudmila - PIVÁČKOVÁ, L. - FIALOVÁ, Silvia - NAVAROVÁ, Jana - VLKOVIČOVÁ, Jana - KŘENEK, Peter. Kyselina rozmarínová zabraňuje cievej dysfunkcii vyvolanej experimentálnym diabetom u potkanov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 90. ISBN 978-80-8143-020-6. ITMS 26240220040, VEGA 2/0108/10, VEGA 1/0981/12.

ŠTEFEK, Milan.: "Flavonoids as potential multifactorial anticataract agents" 3rd European Congress on Preventative Regenerative and Anti-Aging Medicine (ECOPRAM-2012) Istanbul, 28. máj - 1. jún 2012.

JANČINOVÁ, Viera - DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - SVITEKOVÁ, Klára. Farmakologická inhibícia prozápalovej aktivity neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 44. ISBN 978-80-8143-020-6. VEGA 2/0003/10, APVV-0052-10, APVV-0315-07.

2.6.2. Vyžiadané prednášky na domácich vedeckých podujatiach

NOSÁL, Radomír - BAUEROVÁ, Katarína - DRÁBIKOVÁ, Katarína - HARMATHA, Juraj - JANČINOVÁ, Viera - PEREČKO, Tomáš - PONIŠT, Silvester. Účinok prírodných polyfenolov na aktiváciu neutrofilov na modeli adjuvantnej artritídy. Liečivá a ich účinky vo farmakológii a toxikológii, Bratislava, 31.5.2012

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Účinok derivátov stilbenu na viabilitu ľudských neutrofilov. Liečivá a ich účinky vo farmakológii a toxikológii, Bratislava, 31.5.2012

2.6.3. Vyžiadané prednášky na významných vedeckých inštitúciách

BAUER V. Comparison of the effects of activated neutrophils with the action of reactive oxygen species on rat thoracic aorta. Research Division for Life Science, Kumamoto Health Science University, Kumamoto, 861-5598, Japan, apríl 2012

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 2012

2.7.1. Vynálezy, na ktoré bol udelený patent

2.7.2. Prihlásené vynálezy

Na Slovensku - počet patentov: 1

Číslo PV: 5006/2012

Mená autorov: Štefek Milan, Kováčiková Lucia, Miláčková Ivana, Veverka Miroslav, Ing., CSc., Švajdlenka Emil, Ing., Veverková Eva, Ing., CSc.

Názov vynálezu: Deriváty kvercetínu, farmaceutická kompozícia s ich obsahom a ich použitie

Majiteľ / spolumajiteľ: Ústav experimentálnej farmakológie a toxikológie SAV

2.7.3. Predané licencie

2.7.4. Realizované patenty

Finančný prínos pre organizáciu SAV v roku 2012 a súčet za predošlé roky sa neuvádzajú, ak je zverejnenie v rozpore so zmluvou súvisiacou s realizáciou patentu.

2.8. Iné informácie k vedeckej činnosti.

Mária Ďurišová

Zapojenie do COST BM1204. An integrated European platform for pancreas cancer research: from basic science to clinical and public health interventions for a rare disease, http://www.cost.eu/domains_actions/bmbs/Actions/BM1204?management

Aktívna účasť na vedeckých podujatiach prostredníctvom telemostu (on-line komunikácia prostredníctvom Internetu):

Názov podujatia: "4th International Conference on Drug Discovery and Therapy", 12.-15.2. 2012, Dubai.

Názov podujatia: "Principles of Oral Drug Development from Pre-formulation through to Regulatory Requirements", 23- 25. 4. 2012, Londýn.

Názov podujatia: "The fifteenth advanced level workshop on PK/PD data analysis", 19.5.2012-23.5.2012 Cambridge.

Názov podujatia: "Setkání uživatelů systému Mathematica", 14. 9. 2012, Praha.

Názov podujatia: "The Sixth Annual Drug Discovery Conference", 5.-6.9.2012, Manchester.

Názov podujatia: "Application of Innovative Pharmacometric Methods in Drug Development", 4.10.2012, Bridgewater.

Názov podujatia: "The first Workshop on Pharmacometrics as a tool for optimizing drug development", 1-4. 10. 2012, La Fouillade.

Názov podujatia: "Modeling with COMSOL Multiphysics", 28.11.2012, Praha.

Názov podujatia: "World PK/PD Summit", 28.-29.11.2012, Frankfurt.

Názov podujatia: "MATLAB: Prokládání křivek a regresní analýza", 3.12. 2012 Praha.

Názov podujatia: "The Early Drug Development Summit", 3-5.12.2012, Berlín.

Názov podujatia: International Indo-US Symposium on diabetes and heart disease", 4.12.2012, Varanasi.

* * *

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

* * *

Recenzie

Katarína Bauerová

1x General Physiology & Biophysics

1x European Journal of Pharmaceutical Sciences

1x Pharmacological Research

1x Free Radical Research

Michal Dubovický

3x Interdisciplinary Toxicology

Mária Durišová

1x Journal of Pharmaceutical Sciences

Katarína Drábiková

1x Neuroendocrinology Letters

Zdenka Gáspárová

2x Interdisciplinary Toxicology

Viera Jančinová

1x British Journal of Pharmacology

Tatiana Mačičková

2x Interdisciplinary Toxicology

Mojmír Mach

2x Toxicology

2x Neuroendocrinology Letters

Jana Navarová

3x Neuroendocrinology Letters

1x Interdisciplinary Toxicology

Jana Pečivová

1x Neuroendocrinology Letters

Tomáš Perečko

5x Interdisciplinary Toxicology,

1x BioFactors

Ružena Sotníková

1x Plant Foods for Human Nutrition

1x Pharmacology, Biochemistry and Behavior

Eduard Ujházy

2x Interdisciplinary Toxicology

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 2012

Forma	Počet k 31.12.2012				Počet ukončených doktorantúr v r. 2012					
	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	0	11	0	3	1	1	0	0	0	0
Interná z iných zdrojov	0	0	0	0	0	0	0	0	0	0
Externá	1	1	0	0	0	1	0	0	0	0
Spolu	1	12	0	3	1	2	0	0	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	0	0	0	0	0	0

3.3. Zoznam doktorandov, ktorí ukončili doktorandské štúdium úspešnou obhajobou

Tabuľka 3c Menný zoznam ukončených doktorandov v roku 2012 úspešnou obhajobou

Meno doktoranda	Forma DŠ	Mesiac, rok nástupu na DŠ	Mesiac, rok obhajoby	Číslo a názov študijného odboru	Meno a organizácia školiteľa	Fakulta udeľujúca vedeckú hodnotu
Zuzana Brosková	interné štúdium hradené z prostriedkov SAV	9 / 2009	12 / 2012	7.3.2 farmakológia	RNDr. Ivo Juránek PhD. a RNDr. Vladimír Knežl, CSc. Ústav experimentálnej farmakológie a toxikológie SAV	Jesseniova lekárska fakulta UK v Martine
František Drafi	interné štúdium hradené z prostriedkov SAV	10 / 2009	8 / 2012	7.3.2 farmakológia	PharmDr. Katarína Bauerová PhD., Ústav experimentálnej farmakológie a toxikológie SAV	Jesseniova lekárska fakulta UK v Martine
Eva Hrabárová	externé štúdium	10 / 2008	9 / 2012	4.1.22 biochémia	RNDr. Ivo Juránek PhD., Ústav experimentálnej farmakológie a toxikológie SAV	Fakulta chemickej a potravinárskej technológie STU

Zoznam interných a externých doktorandov je uvedený v Prílohe A.

3.4. Zoznam akreditovaných študijných odborov s uvedením VŠ

Tabuľka 3d Zoznam akreditovaných študijných odborov s uvedením univerzity/vysokej školy a fakulty, kde sa doktorandský študijný program uskutočňuje

Názov študijného odboru (ŠO)	Číslo ŠO	Doktorandské štúdium uskutočňované na: (univerzita/vysoká škola a fakulta)
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 hodnosť alebo vyšší kvalifikačný stupeň
Prof. MUDr. Viktor Bauer, DrSc. (farmakológia)		PharmDr.. František Dráfi, PhD. (PhD., Jesseniova lekárska fakulta UK v Martine)
PharmDr. Katarína Bauerová, PhD. (farmakológia)		PharmDr. Zuzana Brosková, PhD. (PhD., Jesseniova lekárska fakulta UK v Martine)
MVDr. Štefan Bezek, DrSc. (toxikológia)		
Prof. MUDr. Radomír Nosál, DrSc. (farmakológia)		
RNDr. Ružena Sotníková, PhD. (farmakológia)		
Ing. Ladislav Šoltés, DrSc. (biochémia)		

3.5. Údaje o pedagogickej činnosti

Tabuľka 3f Prednášky a cvičenia vedené v roku 2012

PEDAGOGICKÁ ČINNOSŤ	Prednášky		Cvičenia a semináre	
	doma	v zahraničí	doma	v zahraničí
Počet prednášateľov alebo vedúcich cvičení	4	0	11	0
Celkový počet hodín v r. 2012	45	0	1074	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	17
3.	Počet pracovníkov, ktorí pôsobili ako školitelia doktorandov (PhD.)	4
4.	Počet školených doktorandov (aj pre iné inštitúcie)	6
5.	Počet oponovaných dizertačných a habilitačných prác	2
6.	Počet pracovníkov, ktorí oponovali dizertačné a habilitačné práce	2
7.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby DrSc. prác	1
8.	Počet pracovníkov, ktorí pôsobili ako členovia komisií pre obhajoby PhD. prác	7
9.	Počet pracovníkov, ktorí pôsobili ako členovia komisií, resp. oponenti v inauguračnom alebo habilitačnom konaní na vysokých školách	1

3.6. Iné dôležité informácie k pedagogickej činnostiRNDr. Vladimír Knezl, CSc.

Člen komisie pre Biologickú olympiádu kat. E., vypracovanie testov pre jednotlivé kola BO (okresné, krajské a celoslovenské), resp. ich recenzie

* * *

V spolupráci s Katedrou farmakológie a toxikológie Farmaceutickej fakulty UK v Bratislave sa testoval účinok homológov stilbénových derivátov na tvorbu reaktívnych metabolitov kyslíka v krvi - chemiluminiscenčnou metódou, formou 2 diplomových prác (Ivana Kanderková a Katarína Danižíková-od októbra 2010)

* * *

Na oddelení farmakológie zápalu boli vedené tri diplomové práce spolu v rozsahu 360 hodín:

Tomáš Sýkora (Ústav lekárskej chémie, biochémie a klinickej biochémie LF UK)

Lukáš Slovák a Matej Briss (Farmaceutická fakulta UK)

Konzultanti: PharmDr. K. Bauerová, CSc., PharmDr. F. Dráfi, PhD a PharmDr. S. Poništ, PhD.

4. Medzinárodná vedecká spolupráca

4.1. Medzinárodné vedecké podujatia

4.1.1. Medzinárodné vedecké podujatia, ktoré organizácia SAV organizovala v roku 2012 alebo sa na ich organizácii podieľala, s vyhodnotením vedeckého a spoločenského prínosu podujatia

Lieky a ich účinky vo farmakológii a toxikológii , Aula SAV, 50 účastníkov, 31.05.-31.05.2012

International Symposium Drugs and Their Action in Pharmacology and Toxicology, 31.5.2012
with participation of

prof. Y. Ito, Kyushu University, Japan

prof. T.B. Bolton, London University, England

prof. P. Holzer, University of Graz, Austria

prof. E.S. Vizi, Hungarian Academy of Sciences, Budapest, Hungary

TOXCON 2012, Hotel Academia, Stará Lesná, Slovensko, 200 účastníkov, 27.08.-31.08.2012

17. medziodborová toxikologická konferencia TOXCON 2012 s mottom „Toxicology at the Cross-road“, spojená s kurzom Advanced Toxicology Course sa konala pod záštitou Federácie európskych toxikologických spoločností EUROTOX, za finančnej podpory Visegrádskeho fondu.

Výkonny výbor EUROTOX-u už po tretíkrát poveril organizátorov konferencie prípravou toxikologického kurzu pre mladých toxikológov. Tohtoročný "Advanced Toxicology Course" bol už druhým kurzom pre pokročilých. Na kurze prednášali, Prof. Horst Spielmann (Free University, Berlín, Nemecko), Prof. Emanuela Corsini (University of Milan, Taliansko), Dr. Helena Kandárová (MatTek, In Vitro Life Sciences, Bratislava), Dr. Ján Sedlák (riaditeľ ÚEO SAV, Bratislava) a mladým toxikológom tento rok prednášal aj mladý slovenský vedec Mgr. Michal Pastorek (ÚEO SAV). Teoretické poznatky získané v rámci prednášok, mali mladí toxikológovia možnosť

vyskúšať si aj prakticky na cvičeniach, ktoré pre nich pripravili Dr. Helena Kandárová so svojou kolegyňou Dr. Silviou Letašiovou. Slovenská toxikologická spoločnosť SETOX a ÚEFT SAV vydali súbor prednášok ako ďalší učebný text „Advances in Toxicology“. Učebnicu môžu použiť ako materiál v rámci svojho vzdelávania mladí vedeckí pracovníci, venujúci sa nielen toxikológii, ale aj ďalším príbuzným biomedicínskym oblastiam výskumu. Na konferencii odznelo 34 prednášok a 90 príspevkov účastníci uviedli vo forme posterov. Abstrakty všetkých prác sú uverejnené v špeciálnom vydaní časopisu Interdisciplinary Toxicology, ktorý vydáva Slovenská toxikologická spoločnosť SETOX v spolupráci s Ústavom experimentálnej farmakológie a toxikológie SAV. Podpora Visegrádskeho fondu umožnila na konferencii oceniť a podporiť mladých vedcov do 35 rokov. Do súťaže o najlepšiu prácu mladého vedca do 35 rokov sa zapojilo 12 mladých toxikológov. Komisia posúdila nielen prácu, uvedenú na TOXCONe, ale aj celkovú doterajšiu publikačnú a citačnú aktivitu uchádzačov. Vedecký výbor konferencie TOXCON a spoločnosť SETOX udelili 3 ceny „TOXCON 2012 Young Researcher Award“. Ceny získali:

1. Miroslav Pohanka – Fakulta vojenského zdravotníctví, Univerzita obrany, Hradec Králové, ČR

2. Lenka Umannová – Biofyzikální ústav, Akademie vied ČR, v.v.i.

3. Aneta Novotná – Přírodovědecká fakulta Univerzity Palackého v Olomouci.

Práce dokladujú nielen vysoký záujem mladých toxikológov o dianie v našej odbornej spoločnosti ale aj výnimočnú vedeckú úroveň našej konferencie.

4.1.2. Medzinárodné vedecké podujatia, ktoré usporiada organizácia SAV v roku 2013 (anglický a slovenský názov podujatia, miesto a termín konania, meno, telefónne číslo a e-mail zodpovedného pracovníka)

4.1.3. Počet pracovníkov v programových a organizačných výboroch medzinárodných konferencií

Tabuľka 4a Programové a organizačné výbory medzinárodných konferencií

Typ výboru	Programový	Organizačný	Programový i organizačný
Počet členstiev	5	10	4

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.

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.

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)

Mgr. 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.

6th FP EU: The Network of Excellence BioSim, Contact No. LSHB-CT-2004-005137 (funkcia: Contractor, Researcher)
 7th FP EU: The Network of Excellence Network of Excellence: Virtual Physiological Human (funkcia: Contractor, Researcher)
 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. Tatiana Mačičková, PhD.

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. 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, PhD.

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. Jana Viskupičová, PhD.

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

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

Tabuľka 4b Experti hodnotiaci medzinárodné projekty

Meno pracovníka	Typ programu/projektu/výzvy	Počet hodnotených projektov
Bauer Viktor	Slovak-American Foundation	1
Horáková Ľubica	Štrukturálny fond EU	4
Mach Mojmir	IGA CR	2

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

V roku 2012 boli v treťom roku riešenia dva bilaterálne projekty, ktoré boli realizované v spolupráci Oddelenia farmakológie zápalu ÚEFT SAV s akadémiami vied v Rusku (RAMS) a v Taliansku (CNR). V rámci týchto projektov sa uskutočnili celkovo 4 výmenné krátkodobé pobyty. V rámci riešenia projektu COST CM1001 sa uskutočnil jeden pobyt v Grécku (6 dní) a jeden v Španielsku (42dní).

5. Vedná 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 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): Katedra farmakológie a toxikológie FaFUK

Začiatok spolupráce: 2005

Zameranie: Účinok rastlinných extraktov a ich hlavných účinných látok na aktivitu polymorfonukleárných leukocytov

Zhodnotenie: V spolupráci s Katedrou farmakológie a toxikológie Farmaceutickej fakulty UK v Bratislave sa testuje účinok homológov stilbénových derivátov na tvorbu reaktívnych metabolitov kyslíka v krvi - chemiluminiscenčnou metódou.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

Druh spolupráce (spoločné pracovisko alebo iné): Spoločné riešenie projektu VEGA 2/0045/11 a diplomová prax (Dr. Bauerová a kol.)

Začiatok spolupráce: 2005

Zameranie: Spolupráca s Katedrou farmakológie a toxikológie FaF UK

Zhodnotenie: Spoločný výskum s Katedrou farmakológie a toxikológie FaF UK (doc. Ingrid Túmová) je zameraný na hodnotenie protizápalového efektu nových látok v experimentálnych modeloch: adjuvantná artritída a karagenínom indukovaný zápal.

Názov univerzity/vysokej školy a fakulty: Farmaceutická fakulta UK

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

Začiatok spolupráce: 2000

Zameranie: Hodnotenie sprievodných diabetických komplikácií na molekulárnej a biochemickej úrovni

Zhodnotenie: Pracovníci Oddelenia kardiovaskulárnej a hladkosvalovej farmakológie spolupracujú s Katedrou farmakológie FaFUK pri testovaní biochemických parametrov a zmien v expresii dôležitých markerov poškodenia ciev a obličiek počas experimentálneho diabetu. JANKYOVÁ, Stanislava - NAVAROVÁ, Jana - CSÖLLEI, Josef - RAČANSKÁ, Eva. Účinnosť Pycnogenolu® a derivátu 4/1E v liečbe diabetu. In Interaktívna konferencia mladých vedcov 2011 : zborník abstraktov. - Banská Bystrica : Občianske združenie Preveda, 2011, s. 73. ISBN 978-80-970712-0-2. grant UK 32/2010 a FaF UK/25/2009. Typ: AFHB

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

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

Začiatok spolupráce: 2005

Zameranie: PhD. štúdium

Zhodnotenie: ÚEFT SAV je externým školiacim pracoviskom Jesseniovej lekárskej fakulty UK v Martine

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 riešenie projektov

Začiatok spolupráce: 2001

Zameranie: Ochrana novorodenca

Zhodnotenie: Spolupráca pri korelácii 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 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. Analýza relevantných cytokínov sa uskutočnila pri hodnotení účinku atorvastatínu pri experimentálnej hypercholesterolémii: KUCHARSKÁ, Jarmila - ULIČNÁ, Oľga - BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Vi

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: 2005

Zameranie: Spolupráca s Ústavom patologickej anatómie LFUK, Bratislava

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 publikácie v CC časopise „Feketeová L, Jančová P, Moravcová P, Janegová A, Bauerová K, Poništ S, Mihalová D, Janega P, Babál P. Effect of methotrexate on inflammatory cells redistribution in experimental adjuvant arthritis Rheumatol Int. 2011 Nov 15. [Epub ahead of print]“ FEKETOVÁ, Lucia - JANČOVÁ, Petra - MORAVCOVÁ, Petra - JANEHOVÁ, Andrea - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JANEHOVÁ, Pavol - BABÁL, Pavel. Effect of methotrexate on inflammatory cells redistribution in experimental adjuvant arthritis. In Rheumatology international, 2012, vol. 32, p. 3517-3523. (1.885 - IF2011). (2012 - Current Contents). ISSN 0172-8172.

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: PhD. štúdium

Zhodnotenie: ÚEFT SAV je externým školiacim pracoviskom Prírodovedeckej fakulty UK v Bratislave

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

Druh spolupráce (spoločné pracovisko alebo iné): In-vivo NMR laboratórium, FN Kramáre, Bratislava

Začiatok spolupráce: 2004

Zameranie: : realizácia spoločného projektu VEGA 2/0083/0909 - „Energetický metabolismus mozgu sledovaný pomocou magnetickej rezonancie ako podklad pre štúdium mechanizmov hypoxicko-ischemického poškodenia mozgu novorodenca“

Zhodnotenie: Spolupráca je zameraná na využitie dostupnej infraštruktúry, realizáciu spoločných projektov, poskytovanie služieb členom konzorcia užívateľom In-vivo NMR laboratória. Výsledky boli publikované a pripravujú sa ďalšie spoločné publikácie.

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 vitro 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: PhD. štúdium

Zhodnotenie: ÚEFT SAV je externým školiacim pracoviskom Fakulty chemickej a potravinárskej technológie STU

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.

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

7.2. Kontraktový – zmluvný výskum (vrátane zahraničných kontraktov)

7.3. Iná činnosť využiteľná pre potreby hospodárskej praxe

Názov : Produkcia hyperimúnných sér u králikov Partner : BioVendor Laboratorní medicína, a.s. Brno, ČR Objem získaných prostriedkov : 48 078 €

Názov : Produkcia hyperimúnných vajec u sliepok Partner : Sciotec GmbH, Tulln, Rakúsko Objem získaných prostriedkov : 10 726 €

Názov : Produkcia laboratórnych zvierat a kŕmnych diét Partneri : Pracoviská SAV, vysoké školy a iné Objem získaných prostriedkov : 23 840 €

Názov: Prenatálna vývinová toxicita látky ATLEN.SK,. Partner: hameln, rds, Modra, Objem získaných prostriedkov : 4 100 €

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
RNDr. Ľubica Horáková, CSc.	Agentúra Ministerstva školstva SR pre štrukturálne fondy EÚ	externý hodnotiteľ

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

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

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

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

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

9. Vedecko-organizačné a popularizačné aktivity

9.1. Vedecko-popularizačná činnosť

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.		RO	Lieky, ich použitie, nežiaduce účinky a možnosti zneužitia	Rádio Patria	2.3.2012
Prof. MUDr. Viktor Bauer, DrSc.		TV	Perspektívy vedy	TV-maďarské vysielanie	12.2.2012
Prof. MUDr. Viktor Bauer, DrSc.		RO	Rozhovor s jubilujúcim prof. V. Bauerom	Rádio Patria	12.5.2012
Prof. MUDr. Viktor Bauer, DrSc.		RO	Vedec a jeho životná dráha, rozhovor s prof. V. Bauerom I	Rádio Patria	9.12.2012
Prof. MUDr. Viktor Bauer, DrSc.		RO	Vedec a jeho životná dráha, rozhovor s prof. V. Bauerom II	Rádio Patria	16.12.2012
Prof. MUDr. Viktor Bauer, DrSc.		RO	Vedec farmakológ	Rádio Regina	15.9.2012
Prof. MUDr. Viktor Bauer, DrSc.		TL	Vedecké výsledky a životná dráha prof. V. Bauera	časopis Új Szó	12.5.2012
Prof. MUDr. Viktor Bauer, DrSc.		TL	Význam materinčiny vo vzdelaní	časopis Katedra	5.3.2012
Mgr. Mária Baňasová.		EX	Európsky týždeň vedy a techniky na Slovensku 2012 (Týždeň vedy)	ÚEFT SAV	6.11.2012
Mgr. František Dráfi, PhD.	Mgr. V. Kuncirová, PharmDr. S. Ponist, PhD	EX	Európsky týždeň vedy a techniky na Slovensku 2012 (Týždeň vedy)	ÚEFT SAV	6.11.2012
RNDr. Michal Dubovický, CSc.		PB	Prečo sú ľudia psychicky chorí? Psychické zdravie očami biológa	Gymnázia Jura Hronca, Bratislava	14.11.2012
RNDr. Michal Dubovický, CSc.		TV	Toxicita posypovej soli	Rozhovor pre TV JOJ	2.3.2012
RNDr. Tatiana Mačičková, PhD.		PB	Európsky týždeň vedy a techniky na Slovensku	ÚEFT SAV	7.11.2012
RNDr. Magdaléna Májeková, PhD.		RO	MAGNET PLUS	rádio REGINA BA	16.11.2012
RNDr. Magdaléna Májeková, PhD.		PB	Modelovanie liečiv a chemických štruktúr	Týždeň vedy a techniky 2012 ÚEFT	7.11.2012
Ing. Jana Navarová, PhD.	Jana Navarová a Michal Dubovický	TL	EUROTOX 2017 v Bratislave	Správy SAV	21.11.2012

Ing. Jana Navarová, PhD..		PB	Európsky týždeň vedy a techniky na Slovensku	ÚEFT SAV	7.11.2012
Ing. Lucia Račková, PhD.	Doc. RNDr. Daniela Košťálová, CSc., PharmDr. Silvia Fialová, PhD.	PU	Fytoterapia v súčasnej medicíne	kníhkupectvo Martinus	10.11.2012
RNDr. Ružena Sotníková, PhD.		RO	Beseda	rádio REGINA BA	1.12.2012
RNDr. Ružena Sotníková, PhD.		PB	Farmakológia v skratke	ÚEFT SAV	7.11.2012
Doc. RNDr. Eduard Ujházy, CSc.		PB	Čo je to teratológia?	ÚEFT SAV	7.11.2012

¹ PB - prednáška/beseda, TL - tlač, TV - televízia, RO - rozhlas, IN - internet, EX - exkurzia, PU - publikácia, MM - multimédia, 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	6	tlač	0	TV	2
rozhlas	7	internet	0	exkurzie	2
publikácie	3	multimediálne nosiče	0	dokumentárne filmy	0
iné	0				

9.2. Vedecko-organizačná činnosť

Tabuľka 9c Vedecko-organizačná činnosť

Názov podujatia	Domáca/ medzinárodná	Miesto	Dátum konania	Počet účastníkov
Lieky a ich účinky vo farmakológii a toxikológii	medzinárodná	Aula SAV	31.05.-31.05.2012	50
TOXCON 2012	medzinárodná	Hotel Academia, Stará Lesná, Slovensko	27.08.-31.08.2012	200

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	5	10	3

9.5. Členstvo v redakčných radách časopisov

Prof. MUDr. Viktor Bauer, DrSc.

Bratislava Medical Journal (funkcia: Člen Editorial Board)
General Physiology and Biophysics (funkcia: Editor)
Interdisciplinary Toxicology (funkcia: člen Editorial Board)
Természet Világa (funkcia: člen Editorial Board)
Türkiye 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.

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.

General Physiology and Biophysics (funkcia: Filed Editor)
Interdisciplinary Toxicology (funkcia: člen Editorial Board)
Journal of Osteoporosis and Diabetes (funkcia: člen Editorial Board)

Ing. Ladislav Šoltés, DrSc.

Interdisciplinary Toxicology (funkcia: člen Editorial Board)

Ing. Milan Štefek, PhD.

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 výboru)

PharmDr. Katarína Bauerová, PhD.

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)

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)

Mgr. 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: člen výboru)

MVDr. Andrej Gajdošík

Spoločnosť pre vedu o laboratórnych zvieratách (funkcia: Predseda)

RNDr. Zdenka Gáspárová, PhD.

Slovenská farmakologická spoločnosť pri SLS (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.

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. Tatiana Mačičková, PhD.

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 výboru)

Slovenská fyziologická spoločnosť (funkcia: člen)

Slovenská toxikologická spoločnosť SETOX (funkcia: člen)

Ing. Milan Štefek, PhD.

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)

RNDr. Jana Viskupičová, PhD.

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

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

10. Činnosť knižnično-informačného pracoviska

10.1. Knižničný fond

Tabuľka 10a Knižničný fond

Knižničné jednotky spolu		6207
z toho	knihy a zviazané periodiká	6207
	audiovizuálne dokumenty	0
	elektronické dokumenty (vrátane digitálnych)	0
	mikroformy	0
	iné špeciálne dokumenty - dizertácie, výskumné správy	0
Počet titulov dochádzajúcich periodík		5
z toho zahraničné periodiká		1
Ročný prírastok knižničných jednotiek		4
v tom	kúpou	4
	darom	0
	výmenou	0
	bezodplatným prevodom	0
Úbytky knižničných jednotiek		0
Knižničné jednotky spracované automatizovane		0

10.2. Výpožičky a služby

Tabuľka 10b Výpožičky a služby

Výpožičky spolu		690
z toho	odborná literatúra pre dospelých	240
	výpožičky periodík	32
	prezenčné výpožičky	418
MVS iným knižniciam		32
MVS z iných knižníc		35
MMVS iným knižniciam		1
MMVS z iných knižníc		7
Počet vypracovaných bibliografií		0
Počet vypracovaných rešerší		52

10.3. Používatelia

Tabuľka 10c Užívatelia

Registrovaní používatelia	61
Návštevníci knižnice spolu (bez návštevníkov podujatí)	305

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 €	678,69

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).

Pracovníčka knižnice spracováva publikačnú činnosť pracovníkov ústavu v automatizovanom knižničnom systéme ARL. V roku 2012 bolo elektronicky spracovaných **192** záznamov prác. (Týchto záznamov je omnoho viac, nahadzujú sa totiž zdrojové dokumenty – časopisy alebo nami nevydané zborníky, a tieto sa do našej publikačnej činnosti nezarátavajú i keď ich pracovníčka musí spracovať.)

K publikačnej činnosti pracovníkov spracováva i ohlasy na všetky práce pracovníkov ústavu a tento rok to bolo **844** citácií v **278** vedeckých prácach.

Do databázy sa postupne zaraďujú i záznamy starších publikácií s ohlasmi a spracovávajú sa komplexné personálne bibliografie vedeckých pracovníkov nášho ústavu.

Naším cieľom je prezentácia vedecko-výskumnej činnosti nášho ústavu v úplnosti, aby sme mohli využívať tieto údaje pre potreby hodnotenia pracovníkov, akreditácií, hodnotenia projektov a vykazovania aktivít ústavu.

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 hľadaní v elektronických informačných zdrojoch a on-line katalógov knižníc.

Knihovníčka spolupracuje vo svojej činnosti s pracovníčkami Ústrednej knižnice SAV, absolvuje konzultácie a školenia v oblasti EPCA a iných elektronických databáz a taktiež sa zúčastnila i na podujatiach organizovaných Centrom vedecko-technických informácií.

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

prof. MUDr. Radomír Nosál, DrSc.
- VK SAV pre lekárske vedy (člen)

11.4. Členstvo v komisiách SAV

prof. MUDr. Radomír Nosál, DrSc.
- Etická komisia SAV (člen)

11.5. Členstvo v orgánoch VEGA

prof. MUDr. Radomír Nosál, DrSc.
- Komisia VEGA č. 9 pre lekárske vedy a farmaceutické vedy (podpredseda komisie)
- Ústredná komisia VEGA (člen predsedníctva)

Ing. Milan Štefek, PhD.
- 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 €)

Kategória	Posledný upravený rozpočet r. 2012	Čerpanie k 31.12.2012 celkom	z toho:	
			z rozpočtu	z mimoroz. zdrojov
Výdavky spolu	1234366	1452186	1043797	381388
z toho:				
- kapitálové výdavky	165553	259456	35000	224456
- bežné výdavky	1068813	1165730	965071	200659
z toho:				
- mzdové výdavky	545286	551385	545286	6099
odvody do poisťovní a NÚP	182406	184546	182406	2140
- tovary a ďalšie služby	268096	369952	237379	132572
z toho:				
výdavky na projekty (VEGA, APVV, ŠPVV, MVTP, ESF)	124620	316697	105718	210979
výdavky na periodickú tlač	3203	3203	3203	---
transfery na vedeckú výchovu	77665	77665	77665	---

12.2. Príjmy RO SAV

Tabuľka 12b Príjmy RO SAV (v €)

Kategória	Posledný upravený rozpočet r. 2012	Plnenie k 31.12.2012
Príjmy spolu:	94496	285346
z toho:		
rozpočtované príjmy (účet 19)	94496	87301
z toho:		
- príjmy za nájomné	8496	8996
mimorozpočtové príjmy (účet 780)	---	198044

13. Nadácie a fondy pri organizácii SAV

14. Iné významné činnosti organizácie SAV

1.

Oddelenie toxikológie a chovu laboratórných zvierat ÚEFa SAV na Dobrej Vode produkuje a dodáva záujemcom z ústavov SAV a vysokých škôl laboratórne zvieratá a certifikované peletované krmivo. Detašované pracovisko je schopné vykonávať testy a toxikologické expertízy podľa kritérií OECD.

2.

ÚEFT SAV je držiteľom certifikátu Správnej laboratórnej praxe (SLP) v Oddelení toxikológie a chovu laboratórných zvierat na Dobrej Vode a v Oddelení reprodukčnej toxikológie a Laboratóriu bunkových kultúr v Bratislave. Osvedčenie o súlade so správnou laboratórnou praxou č. G-031 vydala Slovenská národná akreditačná služba a spomenuté oddelenia osvedčila dodržiavanie zásad správnej laboratórnej praxe 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.

4.

Ústav v roku 2012 realizoval na pracovisku Dobrá Voda vodohospodársku stavbu, odkanalizovanie chovnej stanice. Stavba prispela k zabezpečeniu ďalšieho chodu a rozvoja detašovaného pracoviska a prispela tiež významne k ochrane životného prostredia.

15. Vyznamenania, ocenenia a ceny udelené pracovníkom organizácie v roku 2012

15.1. Domáce ocenenia

15.1.1. Ocenenia SAV

Bauer Viktor

Medaila Slovenskej akadémie vied za podporu vedy

Oceňovateľ: SAV

Bauer Viktor

Osobnosti SAV

Oceňovateľ: SAV

15.1.2. Iné domáce ocenenia

Baňasová Mária

PREVEDA 2012

Oceňovateľ: PREVEDA

Opis: PREVEDA 2012 – ocenenie v rámci sekcie Organická, bioorganická, farmaceutická chémia, farmakológia a toxikológia

Bauer Viktor

Medaila PhMr. Vladimíra J. Žuffu

Oceňovateľ: SFS SLS

Bauer Viktor

Pamätná medaila Jeseniovej Lekárskej fakulty UK

Oceňovateľ: Jeseniova Lekárska fakulta UK

Bauer Viktor

Zlatá medaila SLS

Oceňovateľ: SLS

15.2. Medzinárodné ocenenia

Perečko Tomáš

COST BM0806 Early Stage Researchers Award

Oceňovateľ: COST Europe

Opis: Ocenenie za príspevok k výskumu H4 histamínových receptorov

Perečko Tomáš

EHRS Young Investigators Award, 2nd place

Oceňovateľ: European Histamine Research Society

Opis: Ocenenie za prezentáciu výsledkov ohľadom H4 histamínových receptorov

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 potrebné investovať do Oddelenia toxikológie a chovu laboratórnych zvierat Dobrá Voda. Toto zariadenie je jedinečné na Slovensku, ako jediné pracovisko svojho druhu vlastní certifikát GLP a 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. Ústav sa opakovane uchádzal a získanie finančných prostriedkov zo ŠF EÚ.

Správu o činnosti organizácie SAV spracoval(i):

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

Riaditeľ organizácie SAV:

.....
RNDr. Michal Dubovický, CSc.

Prílohy**Príloha A****Zoznam zamestnancov a doktorandov organizácie k 31.12.2012****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.	40	0.40
2.	MVDr. Štefan Bezek, DrSc.	100	1.00
3.	Ing. Mária Ďurišová, DrSc.	50	0.00
4.	prof. MUDr. Radomír Nosál, DrSc.	100	1.00
5.	Ing. Ladislav Šoltés, DrSc.	100	1.00
Vedúci vedeckí pracovníci CSc., PhD.			
1.	Ing. Milan Štefek, PhD.	100	1.00
2.	Doc. RNDr. Eduard Ujházy, CSc.	100	1.00
Samostatní vedeckí pracovníci			
1.	PharmDr. Katarína Bauerová, PhD.	100	1.00
2.	Ing. Zuzana Brnoliaková, PhD.	100	1.00
3.	RNDr. Katarína Drábiková, PhD.	100	1.00
4.	RNDr. Michal Dubovický, CSc.	100	1.00
5.	RNDr. Zdenka Gáspárová, PhD.	100	1.00
6.	RNDr. Ľubica Horáková, PhD.	100	1.00
7.	PharmDr. Viera Jančinová, PhD.	100	1.00
8.	RNDr. Ivo Juránek, PhD.	100	1.00
9.	RNDr. Vladimír Knezl, PhD.	100	1.00
10.	RNDr. Tatiana Mačičková, PhD.	100	1.00
11.	RNDr. Mojmír Mach, PhD.	100	1.00
12.	RNDr. Magdaléna Májeková, PhD.	100	1.00
13.	Ing. Jana Navarová, PhD.	60	0.60
14.	RNDr. Jana Pečivová, PhD.	100	1.00
15.	PharmDr. Silvester Poništ, PhD.	100	1.00
16.	Ing. Lucia Račková, PhD.	100	1.00
17.	RNDr. Ružena Sotníková, PhD.	70	0.70
18.	RNDr. Katarína Valachová, PhD.	100	1.00
Vedeckí pracovníci			
1.	RNDr. Dušan Blaškovič, PhD.	100	1.00

2.	Mgr. František Dráfi, PhD.	100	1.00
3.	RNDr. Lucia Kováčiková, PhD.	100	1.00
4.	Mgr. Tomáš Perečko, PhD.	100	1.00
5.	RNDr. Jana Viskupičová, PhD.	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.	25	0.25
4.	Ing. Danica Mihalová	100	1.00
5.	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.	Peter Galovič	100	1.00
6.	Štefan Janovič	100	1.00
7.	Viera Krchnárová	100	1.00
8.	Ľudmila Križanová	100	1.00
9.	Ján Lukačovič	100	1.00
10.	Daniela Lukačovičová	100	1.00
11.	Sidónia Maderová	100	1.00
12.	Júlia Poláková	100	1.00
13.	Andrea Puškášová	100	1.00
14.	Margita Ryšánková	100	1.00
15.	Monika Srnová	100	1.00
16.	Zuzana Straková	100	1.00
17.	Monika Úvačková	100	1.00
18.	Soňa Zacharová	100	1.00
Ostatní pracovníci			
1.	Vladimír Blanárik	100	1.00
2.	Milan Petkáč	50	0.50
3.	Lucián Revák	100	1.00
4.	Štefánia Snopková	100	1.00
5.	Jozefína Tarabová	100	1.00

Zoznam zamestnancov, ktorí odišli v priebehu roka

	Meno s titulmi	Dátum odchodu	Ročný prepočítaný úväzok
Vedúci vedeckí pracovníci CSc., PhD.			
1.	MUDr. Viera Nosáľová, PhD.	31.3.2012	0.10
Odborní pracovníci ÚSV			
1.	František Titka	8.1.2012	1.00

Zoznam doktorandov

	Meno s titulmi	Škola/fakulta	Študijný odbor
Interní doktorandi hradení z prostriedkov SAV			
1.	Mgr. Mária Baňasová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
2.	PharmDr. Zuzana Brosková	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia
3.	Mgr. Estera Császárová	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia
4.	Mgr. Veronika Klusová	Prírodovedecká fakulta UK	4.1.22 biochémia
5.	Mgr. Viera Kuncírová	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia
6.	Mgr. Ivana Miláčková	Prírodovedecká fakulta UK	4.1.22 biochémia
7.	PharmDr. Kateřina Plachá	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia
8.	Mgr. Natália Sedláčková	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia
9.	Ing. Marta Šoltéssová	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
10.	Ing. Dominika Topol'ská	Fakulta chemickej a potravinárskej technológie STU	4.1.22 biochémia
11.	Mgr. Petronela Žížková	Prírodovedecká fakulta UK	4.1.22 biochémia
Interní doktorandi hradení z iných zdrojov			
<i>organizácia nemá interných doktorandov hradených z iných zdrojov</i>			
Externí doktorandi			
1.	Ing. Ladislav Bačiak	Prírodovedecká fakulta UK	4.1.22 biochémia
2.	Mgr. Veronika Ponechalová	Jesseniova lekárska fakulta UK v Martine	7.3.2 farmakológia

Príloha B

Projekty riešené v organizácii

Medzinárodné projekty

Programy: COST

1.) Fetegovanie evolučných "hot spots" rezistencie antibiotík v Európe (*Detecting evolutionary hot spots of antibiotic resistances in Europe*)

Zodpovedný riešiteľ: Mária Ďurišová
Trvanie projektu: 23.9.2009 / 22.9.2013
Evidenčné číslo projektu: Action TD0803
Organizácia je koordinátorom projektu: nie
Koordinátor: Thomas U. Berendonk
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: COST: 3000 €

Dosiahnuté výsledky:

2.) Matematické modelovanie transportných a efluxných mechanizmov pre vývoj nových stratégií na boj proti antibiotickej rezistencii. (*Antibiotic transport and efflux: new strategies to combat bacterial resistance*)

Zodpovedný riešiteľ: Mária Ďurišová
Trvanie projektu: 8.1.2008 / 18.5.2012
Evidenčné číslo projektu: Action TD0803
Organizácia je koordinátorom projektu: nie
Koordinátor: IBSM-CNRS FRE 3083, Marseille
Počet spoluriešiteľských inštitúcií: 27 - Rakúsko: 1, Belgicko: 1, Nemecko: 2, Dánsko: 2, Španielsko: 3, Francúzsko: 2, Veľká Británia: 2, Grécko: 1, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 2, Litva: 0, Lotyšsko: 1, Nórsko: 1, Poľsko: 2, Portugalsko: 2, Rumunsko: 0, Turecko: 1
Čerpané financie: COST: 1667 €

Dosiahnuté výsledky:

3.) Chémia neenzymatických proteínových zmien (*Chemistry of non-enzymatic protein modification – modulation of protein structure and function*)

Zodpovedný riešiteľ: Ľubica Horáková
Trvanie projektu: 1.11.2010 / 31.10.2014
Evidenčné číslo projektu: COST action CM 1001

Organizácia je nie
koordinátorom projektu:
Koordinátor:
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: MVTS - COST: 4000 €

Dosiahnuté výsledky:

Účinky nových quercetínových derivátov na Ca-ATPázu sarkoplazmatického retikula. D. Blaskovic*1, F. Drzik1, J. Viskupicova1, M. Veverka2, L. Horakova1 1Institute of Experimental Pharmacology and Toxicology, Slovakia, 2BelNovamann International Ltd., Slovakia
Výsledkom inhibície SERCA je vysoká koncentrácia cytozólového kalcia a porušenie funkcie bunky/smrť. Poškodenie SERCA je sprostredkované ROS. Flavonoid quercetín (Q) je vynikajúci scavenger voľných radikálov schopný modulovať ATPázy typu P.skúmali sme účinky nových quercetínových derivátov diquercetínu (DQ), trichloropivaloylquercetínu (TCPQ), di(diacetylcafeoyl)-mono-(monoacetylcafeoyl) quercetín (DACQ) na aktivitu SERCA v prítomnosti peroxynitritu ako zdroja poškodenia SERCA. Q a DACQ mali ochranný účinok na aktivitu SERCA, TCPQ nemal žiadny účinok v prítomnosti peroxynitritu. Prekvapujúco, quercetín a všetky testované deriváty znížili obsah tiolových skupín v SERCA o 80 %. Q vyvolal slabú zmenu, zatiaľčo jeho deriváty signifikantne zmenili konformáciu ATP väzobného miesta. Q a DQ ovplyvnili kalciové väzobné miesto pri koncentrácii peroxynitritu 50 uM zatiaľčo žiadne konformačné zmeny neboli pozorované v transmembránovej oblasti po pôsobení s TCPQ alebo DACO za podmienok oxidaného stresu. DACO a Q môžu mať ochranný účinok v liečbe chrôb s poklesom SERCA aktivity, kým DQ na základe inhibície SERCA by mohol byť použitý na indukciu apoptózy rakovinových buniek.

4.) Štrukturálne podmienené navrhovanie liečiv na diagnózu a liečenie neurologických ochorení (*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 nie
koordinátorom projektu:
Koordinátor: Dr. Rona Ramsay, University of St Andrews, UK
Počet spoluriešiteľských 0
inštitúcií:
Čerpané financie: COST: 663 €

Dosiahnuté výsledky:

• MÁJEKOVÁ, Magdaléna - ŠTOLC, Svorad - KOVÁČIKOVÁ, Lucia - ĎURIŠOVÁ, Mária - BOCA, Roman - MAJEK, Pavol. Pyridoindole compounds with neuroprotective properties - theoretical screening and modeling of their interaction with MAO-B. In CM1103 Action WG. "Structure-based drug design for diagnosis and treatment of neurological diseases: Dissecting and modulating complex function in the monoaminergic systems of the brain". - Madrid, 2012, non pagin.

5.) Nové pokroky vo výskume histamínového H4R receptora (*Recent advances in histamine*

receptor H4R research)

Zodpovedný riešiteľ: Radomír Nosál
Trvanie projektu: 9.4.2009 / 8.4.2013
Evidenčné číslo projektu: Action BM0806
Organizácia je koordinátorom projektu: nie
Koordinátor: University of Athens Med. School Dept. of Pharmacology
Počet spoluriešiteľských inštitúcií: 25 - Rakúsko: 1, Brazília: 1, Česko: 1, Nemecko: 3, Španielsko: 1, Fínsko: 1, Francúzsko: 1, Veľká Británia: 1, Grécko: 2, Maďarsko: 1, Švajčiarsko: 1, Írsko: 1, Izrael: 1, Taliansko: 2, Litva: 1, Holandsko: 1, Nový Zéland: 1, Poľsko: 1, Srbsko: 1, Slovinsko: 1, Švédsko: 1
Čerpané financie: COST: 4000 €

Dosiahnuté výsledky:

Rozdielny účinok H1 a H4 antagonistov na aktivitu ľudských neutrofilov
Polymorfonukleárne leukocyty (neutrofily) sú dôležitou zložkou imunitného systému, kde hrajú kľúčovú úlohu vo fagocytóze cudzorodých patogénov a ich následnej deštrukcii počas zápalu. Histamín je biogénny amín, ktorý reguluje zápalové reakcie v organizme prostredníctvom 4 typov histamínových receptorov (H1-H4). V našich predošlých prácach sme informovali o ovplyvnení oxidačného vzplanutia ľudských neutrofilov prostredníctvom H1 antagonistov prvej a druhej generácie. H1 antagonisty inhibovali extra- aj intra-celulárnu produkciu reaktívnych foriem kyslíka (RFK) v neutrofiloch. Na rozdiel od H1 antagonistov, blokátory H4 receptoru JNJ7777120 a JNJ10191584 neinhibovali produkciu RFK ani v plnej ľudskej krvi ani v izolovaných neutrofiloch. V spolupráci s kolegami z Queen's University Belfast sme zistili, že H4 antagonisty blokujú inhibičný účinok histamínu na degranuláciu ľudských neutrofilov stimulovaných formyl-metionyl-leucyl-fenylalanínom, ktoré boli inkubované na fibrinogénom potiahnutých kultivačných miskách. Keďže prítomnosť H4 receptorov na neutrofiloch je stále predmetom výskumu, pomocou konfokálnej mikroskopie sme zistili prítomnosť H4 receptorov na neutrofiloch. Naše výsledky spolu s výsledkami našich kolegov naznačujú rozdielny mechanizmus účinku H1 a H4 antagonistov na funkcie ľudských neutrofilov.

NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan – KRÁLOVÁ, Jana. H1 versus H4 anti-histamines in human neutrophil oxidative burst. *Inflamm. Res.* (2012) 61 (Suppl 2):S49 DOI 10.1007/s00011-012-0531-x (2.109-IF2011).

PEREČKO, T. – BROWN, V. – COMER, D. – THURMOND, R. – DIB, K. – ENNIS, M. The histamine H4 receptor blunts neutrophil degranulation by preventing beta 2 integrin-dependent signalling. *Inflamm. Res.* (2012) 61 (Suppl 2):S49 DOI 10.1007/s00011-012-0531-x (2.109-IF2011).

NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. Porovnanie účinku H1 a H4 antihistaminík na oxidatívne vzplanutie neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 74. ISBN 978-80-8143-020-6.

Short Term Scientific Mission in Belfast, 19. 11. 2011 – 20. 2. 2012
Post-doc position in Institute of Biophysics, Brno, Czech Republic
COST BM0806 Early Stage Researchers Award, 2012

EHRIS Young Investigators Award, 2nd place, 2012

Programy: 7RP

6.) Virtuálna fyziológia človeka (*Virtual Physiological Human, Network of Excellence, 7FP WU*)

Zodpovedný riešiteľ: Mária Ďurišová
Trvanie projektu: 1.5.2009 / 31.12.2012
Evidenčné číslo projektu: 223920, FP7-ICT-2007-2
Organizácia je koordinátorom projektu: nie
Koordinátor: Professor Peter Coveney, University College London
Počet spoluriešiteľských inštitúcií: 41 - Austrália: 1, Belgicko: 1, Nemecko: 6, Dánsko: 3, Španielsko: 5, Francúzsko: 3, Veľká Británia: 5, Grécko: 3, Chorvátsko: 1, Taliansko: 6, Holandsko: 2, Nórsko: 2, Nový Zéland: 1, Portugalsko: 1, Švédsko: 1
Čerpané financie: FP7: 4000 €

Dosiahnuté výsledky:

Stručne uveďte dosiahnuté výsledky, najmä publikácie, prípadne patenty, ktoré zo spolupráce vyplynuli. (Slovensky/Anglicky)

V nadväznosti na projekt MVTS 7RP bol vyvinutý fyziologicky opodstatnený matematický model (obr.) pre štúdium osudu liečiv (antibiotík) v organizme po ich orálnom podaní. Popis metódy a jej použitie boli prezentované na tele – konferenciách a pripravené na publikovanie.

Programy: Bilaterálne - iné

7.) In vitro and in vivo models of arthritic processes for studying the mechanisms of inflammation and oxidative stress link-up. New perspectives for arthritis therapy (*In vitro and in vivo models of arthritic processes for studying the mechanisms of inflammation and oxidative stress link-up. New perspectives for arthritis therapy*)

Zodpovedný riešiteľ: Katarína Bauerová
Trvanie projektu: 1.1.2010 / 31.12.2012
Evidenčné číslo projektu: CNR-SAV
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 4 - Taliansko: 4
Čerpané financie:

Dosiahnuté výsledky:

Spolupráca sa realizovala formou spoločného výskumu s pracoviskami v Taliansku, ktoré sú súčasťou Univerzít v Siene, Modene a Toríne a talianskej akadémie: National Research Council (Institute of Food Sciences). Výsledky boli sumárne spracované vo forme správy v EN, z ktorej vyberáme:

The Slovak unit has common research with all Italian Institutions included in the project. The role of oxidative stress (OS) in rheumatoid arthritis (RA) by means of the model of adjuvant arthritis (AA) in Lewis rats was investigated. AA is a model of polyarthritis widely used for preclinical testing of antiarthritic substances. This model is characterized by arthritic, inflammatory, OS and immune parameters in time profile during 28 days to study the antirheumatic effect of selected substances.

On the basis of previous cooperation between the Bratislava and Torino groups plasmatic HNE- and MDA-protein adducts were first monitored in AA and the common results were published (1,2,4). A pilot study focused on immunohistochemical detection of HNE-modified proteins in the joints of rats with AA was also performed. Slices of decalcified paraffin embedded rat joints from arthritic control group and healthy control group were assessed. Our results indicate an increased presence of HNE-modified proteins in joints of arthritic rats compared to controls, which could be related with noticeable inflammatory infiltration of “arthritic” joints. The most visible cytoplasmatic positivity was found for granulocytes and histiocytes. These preliminary results will help us to optimise this immunohistochemical method for detection of HNE-modified proteins in joint slices and use it for experiments with rat AA and combination therapy of methotrexate (MTX) and antioxidants. We suppose that MTX and/or antioxidants should be able to reduce the amount of HNE-modified proteins in joints of arthritic rats.

Further levels of plasmatic isoprostanes in AA were assessed by using a GC/MS method (Bratislava and Siena groups). The preliminary results obtained from comparison of the arthritis animals to healthy control were presented at the 3rd International conference on osteoimmunology in Fira (5). We examined also the eventual antioxidant and anti-inflammatory effect of pinosylvin (PIN) - 3,5-dihydroxy-trans-stilbene (an analogue of resveratrol) on the progression of AA in rats in monotherapy and in combination with methotrexate (MTX). Data obtained in Bratislava demonstrated that PIN potentiated both the anti-arthritic (decrease of hind paw volume) and the antioxidant effect of MTX (TBARS in plasma). Arthritic animals showed increased OS, also evaluated as plasma levels of F2-isoprostanes. F2-Isoprostanes can nowadays be considered the most reliable markers of OS in vitro and in vivo and can be used to evaluate the oxidative status in a number of human pathologies, including RA. PIN alone or in combination with MTX strongly reduced F2-Isoprostanes levels (about 50%). Further in Siena PIN was also tested for its ability to stimulate antioxidative stress response through activation of Nrf2-target proteins. In particular, heme oxygenase (HO-1) plays an important role in AA showing anti-inflammatory and antioxidant functions. HO-1 was measured in supernatants from tissue homogenates by Western blot analysis. The data show a significant decline in HO-1 (about 40%) in the lung from AA rats. In these animals, PIN alone increased the levels of HO-1 by about 30% more than MTX. Moreover, the combination therapy was the most effective in increasing the levels of HO-1 (3-fold in respect to AA values). No changes were observed in the liver. Finally, since NF- κ B plays an important role in inflammation (cytokine release, MMP expression, etc.) occurring in RA, we assessed whether PIN was able to suppress its activation. In our model, we observed a marked increase in NF- κ B in the lung and liver from AA animals. This increase was strongly reduced by PIN alone as well as in combination with MTX. These results suggest that the anti-inflammatory activity of PIN can be mediated by suppression of NF- κ B activation. These preliminary results demonstrate that PIN is able to reduce OS in AA rat model. In fact, the combined administration of PIN and MTX suppressed arthritic progression more effectively than did MTX alone. This natural compound may then be useful in the treatment of RA. The above reported results were presented at two international conferences (6,7) and will be prepared for publication in a journal.

In cooperation with Avellino unit a pilot experiment with quercetin (QUE) in rat adjuvant arthritis (AA) was performed. At the end of the experiment after evaluation of clinical markers of the disease (arthrogram and changes in body weight) no significant differences between arthritis control group and QUE treated arthritis group were found. Nevertheless, a significant reduction of γ -glutamyltransferase (GGT) activity by QUE treatment in joint homogenates was monitored. All inflammatory markers (CRP, IL-1 β and MCP measured in plasma) were improved by

administration of QUE. Despite that QUE not improve clinical parameters, its administration is suppressing the systemic inflammation and in this way it is beneficial for the immunological status of the arthritic animals. QUE could be a good candidate for combination therapy with DMARDs. The data will be prepared for publication.

The activity in cooperation with Modena unit included the analysis of healthy animals, untreated arthritic animals, arthritic animals treated with chondroitin sulfate (CS) daily, 14 days before AA induction until the end of the experiment (day 28). CS was capable of significantly reducing the severity of arthritis along with OS, a consequence of chronic inflammatory processes occurring in AA. The CS pre-treatment regimen was effective throughout the whole subacute phase, while treatment from day 1 proved effective only in the chronic period. The effects were confirmed by improved total antioxidant status and GGT activity. CS administered under a pre-treatment regimen was also able to reduce the production of pro-inflammatory cytokines, C-reactive protein (CRP) in plasma, phagocytic activity and the intracellular oxidative burst of neutrophils. CS proved to be effective in slowing down AA development and in reducing disease markers, thus supporting its beneficial activity as a drug for RA in humans (3,8).

Publications on journals with impact factors

1. BAUEROVÁ, Katarína - PAULOVIČOVÁ, Ema - MIHALOVÁ, Danica - DRÁFI, František - ŠTROSOVÁ, Miriam - MASCIA, Cinzia - BIASI, Fiorella - ROVENSKÝ, Jozef - KUCHARSKÁ, Jarmila - GVOZDJÁKOVÁ, Anna - PONIŠT, Silvester. Combined methotrexate and coenzyme Q10 therapy in adjuvant-induced arthritis evaluated using parameters of inflammation and oxidative stress. In *Acta Biochimica Polonica*, 2010, vol. 57, no. 3, p. 347-354. (1.262 - IF2009).
2. PONIŠT, Silvester - MIHALOVÁ, Danica - JANČINOVÁ, Viera - ŠNIRC, Vladimír - ONDREJIČKOVÁ, Oľga - MASCIA, Cinzia - POLI, Giuseppe - STANČÍKOVÁ, Mária - NOSÁL, Radomír - BAUEROVÁ, Katarína. Reduction of oxidative stress in adjuvant arthritis. Comparison of efficacy of two pyridoindoles: stobadine dipalmitate and SMe1.2HCl. In *Acta Biochimica Polonica*, 2010, vol. 57, no. 2, p. 223-228. (1.262 - IF2009).
3. BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - PAULOVIČOVÁ, Ema - VOLPI, Nicola. Chondroitin sulfate effect on induced arthritis in rats. In *Osteoarthritis and Cartilage*, 2011, vol. 19, no. 11, p. 1373-1379. (3.953 - IF2010).

Abstracts at international conferences:

4. PONIŠT, Silvester - BAUEROVÁ, Katarína - MIHALOVÁ, Danica - JANČINOVÁ, Viera - ONDREJIČKOVÁ, Oľga - PEREČKO, Tomáš - ŠTROSOVÁ, Miriam - KUCHARSKÁ, Jarmila - MASCIA, Cinzia - PAULOVIČOVÁ, Ema - STANČÍKOVÁ, Mária - TRUNOVÁ, Oľga. Substances affecting redox balance of the organism tested on adjuvant arthritis - an animal model of rheumatoid arthritis. New combinations with immune-suppressive drugs in prospective treatment of rheumatoid arthritis. In *Programme & Abstracts. : annual meetings. Society for Free Radical Research (SFRR Europe), "Free Radicals and the Environment"*, September 12-15th. The European Environmental Mutagen Society (EEMS), "Environmental Mutagenesis in the North", September 15-18th. abstract p. 70-71. ISBN 978-82-8082-428-8.
5. BAUEROVÁ, Katarína - PONIŠT, Silvester - PAULOVIČOVÁ, Ema - MIHALOVÁ, Danica - NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - DRÁFI, František - GVOZDJÁKOVÁ, Anna - VANKO, Marián - BEZÁKOVÁ, Lýdia - SIGNORINI, Cinzia - GARDI, Concetta - BIASI, Fiorella - STANČÍKOVÁ, Mária - ROVENSKÝ, Jozef. The role of redox imbalance in relation to immunological processes in adjuvant arthritis. In *Interactions of the immune and skeletal systems : 3rd International conference on osteoimmunology*. June 20-25,

2010, Fira, Santorini, Greece. - Fira : Nomikos Conference Center, 2010, abstract p. 68-69.

6. VECCHIO, Daniela - ACQUAVIVA, Alessandra - AREZZINI, Beatrice - GARDI, Concetta - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - NOSÁL, Radomír - BAUEROVÁ, Katarína. Activity of pinosylvlin administered in monotherapy and in combination with methotrexate on the development of rat adjuvant arthritis. In 4eme Symposium International Nutrition, Biologie de l'Oxygene et Médecine: radicaux libres et vieillissement: des aspects fondamentaux aux applications cliniques. 15 - 17 Juin 2011, Paris, France. - Paris : Oxygen Club of California, 2011, abstract p. P14.

7. ACQUAVIVA, Alessandra - DRÁFI, František - VECCHIO, Daniela - PONIŠT, Silvester - AREZZINI, Beatrice - MIHALOVÁ, Danica - GARDI, Concetta - NOSÁL, Radomír - BAUEROVÁ, Katarína. Pinosylvlin administered in monotherapy and in combination with methotrexate reduces oxidative stress in adjuvant arthritis rat model. In Second International Conference on Environmental Stressors in Biology and Medicine : October 5-7, 2011, Centro Didattico, Policlinico Le Scotte, Università di Siena, Siena (Italy), abstract p.58.

8. BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - PAULOVIČOVÁ, Ema – VOLPI, Nicola. The protective effect of chondroitin sulfate on induced arthritis in rats. In OARSI 2010, world congress on osteoarthritis. Brussels 23-26 september 2010, Belgium.

Domáca publikácia z roku 2012:

KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - VOLPI, Nikola - BAUEROVÁ, Katarína. Evaluation of the effect of chondroitin sulfate on the induced arthritis in rats. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. Typ: AFHB

8.) Regulation of cytokine synthesis during inflammation development in brain and other tissues (*Regulation of cytokine synthesis during inflammation development in brain and other tissues*)

Zodpovedný riešiteľ:	Katarína Bauerová
Trvanie projektu:	1.1.2010 / 31.12.2012
Evidenčné číslo projektu:	RAMS-SAV
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií:	1 - Rusko: 1
Čerpané financie:	

Dosiahnuté výsledky:

Spolupráca sa realizovala formou spoločného výskumu s pracoviskami v Rusku – Ruská Akadémia lekárskeho vied a Lomonosova Štátna Univerzita v Moskve.

Výsledky publikované v roku 2012 boli dosiahnuté najmä v oblasti štúdia účinkov karnozínu v experimentálnom modeli reumatoidnej artritídy.

DRÁFI, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - FEDOROVA, Tatiana - HARMATHA, Juraj - NOSÁL, Radomír.

Pharmacological influence on processes of adjuvant arthritis: Effect of the combination of an antioxidant active substance with methotrexate. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p.84-91. ISSN 1337-6853. Typ: ADFB

DRÁFI, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BOLDYREV, A. - HARMATHA, Juraj - NOSÁL, Radomír. Evaluation of combined methotrexate therapy with antioxidant active substances in adjuvant-induced arthritis. A new approach to rheumatoid arthritis treatment. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 161-175. ISBN 978-80-971042-0-7. Typ: AED

DRÁFI, František - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KUNCÍROVÁ, Viera - BOLDYREV, A. - NOSÁL, Radomír. Experimental treatment of the adjuvant-induced arthritis. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. Typ: AFHB

KUNCÍROVÁ, Viera - DRÁFI, František - PONIŠT, Silvester - MIHALOVÁ, Danica - ONDREJIČKOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Efekt prídavku karnozínu k metotrexátovej antiartritickéj terapii : [Effect of carnosine addition to methotrexate anti-arthritic therapy]. In Pokroky vo farmakológii v Slovenskej republike VII. Editori: Pavel Švec, Magdeléna Kuželová, Ján Kyselovič. - Bratislava : Univerzita Komenského, Farmaceutická fakulta, 2012, s. 50-56. ISBN 978-80-223-3271-2. Typ: AED

MIHALOVÁ, Danica - BAUEROVÁ, Katarína - DRÁFI, František - KUNCÍROVÁ, Viera - PONIŠT, Silvester - FEDOROVÁ, Tatiana - HARMATHA, Juraj - NOSÁL, Radomír. Hodnotenie látok s antioxidačnými vlastnosťami a antireumatika - metotrexátu študovaná na modeli adjuvantnej artritídy. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 64. ISBN 978-80-8143-020-6. Typ: AFHA

PONIŠT, Silvester - DRÁFI, František - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - RAČKOVÁ, Lucia - ONDREJIČKOVÁ, Oľga - TRUNOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Terapeutický efekt karnozínu v experimentálnej artritíde a jeho protektívny účinok na primárnu bunkovú kultúru chondrocytov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 81. ISBN 978-80-8143-020-6. Typ: AFHA

Projekty národných agentúr

Programy: VEGA

1.) Štúdium kombinácie imunosupresívnej liečby a ovplyvnenia redoxnej rovnováhy organizmu na zvieracích modeloch reumatoidnej artritídy (*Study of combination of immunosuppressive treatment and substances affecting redox balance of organism on animal models of rheumatoid arthritis*)

Zodpovedný riešiteľ:	Katarína Bauerová
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0045/11
Organizácia je koordinátorom projektu:	áno

Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 12628 €

Dosiahnuté výsledky:

V roku 2012 boli experimentálne hodnotené a následne publikované skúsenosti s modelom adjuvantnej artritídy pre hodnotenie nových postupov terapie reumatoidnej artritídy spočívajúcich na regulácii imunitných procesov a oxidačného stresu.

Navyše súčasťou projektu bolo aj hodnotenie účinku atorvastatínu pri experimentálnej hypercholesterolémii. Publikované výsledky vznikli aj vďaka spolupráci s riešiteľskými kolektívami dvoch bilaterálnych projektov RAMS-SAV a CNR-SAV (viď. publikácie uvedené vyššie) a tiež troch projektov APVV-0315-07, APVV-052-10 a APVV-21-055205

BAUEROVÁ, Katarína - PONIŠT, Silvester - NOSÁL, Radomír - STANČÍKOVÁ, Mária - ROVENSKÝ, Jozef. Modern pharmacological approaches to therapies: substances tested in animal models of rheumatoid arthritis: chapter 12. In Rheumatoid Arthritis - Treatment. 1th. - Rijeka : INTECH, 2011, p. 233-268. ISBN 978-953-307-850-2. Typ: ABC

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. Typ: ADCA

FEKETEOVÁ, Lucia - JANČOVÁ, Petra - MORAVCOVÁ, Petra - JANEGO VÁ, Andrea - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JANEGA, Pavol - BABÁL, Pavel. Effect of methotrexate on inflammatory cells redistribution in experimental adjuvant arthritis. In Rheumatology international, 2012, vol. 32, p. 3517-3523. (1.885 - IF2011). (2012 - Current Contents). ISSN 0172-8172. Typ: ADCA

BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - DRÁFI, František - MIHALOVÁ, Danica - PONIŠT, Silvester. Prepojenie procesov oxidačného stresu a rozvoja zápalu zapojeného do etiopatogenézy reumatoidnej artritídy. In Nové trendy vo farmakoterapii IV. : zborník prác. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 28-38. ISBN 978-80-89544-32-5. Typ: AED

DRÁFI, František - SÝKORA, T. - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Hyperbilirubinaemia decreases clinical and biochemical markers in adjuvant-induced arthritis. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 32. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 32. ISSN 1337-6853. Typ: AFHA

KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - NOSÁL, Radomír - HARMATHA, Juraj - BAUEROVÁ, Katarína. Anti-arthritic effect of combination therapy of methotrexate and N-feruloylserotonin in experimental arthritis. In TOXCON 2012.

Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 47. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 47. ISSN 1337-6853. Typ: AFHA

KUCHARSKÁ, Jarmila - ULIČNÁ, Oľga - BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - JANEGA, Pavol - ZAGRAPAN, B. - KRISTEK, František - VANČOVÁ, Olga - GVOZDJÁKOVÁ, Anna - BADA, V. Čo ešte nevieme o statínoch? Účinky atorvastatínu pri experimentálnej hypercholesterolémii. In Cardiology Letters, 2012, vol. 21, suppl., p. 20S. ISSN 1336-2429. Typ: AFHA

ROVENSKÝ, Jozef - STANČÍKOVÁ, Mária - ŠVÍK, Karol - BAUEROVÁ, Katarína - JURČOVIČOVÁ, Jana. The effects of β -glucan isolated from *Pleurotus ostreatus* on methotrexate chemotherapy. In Methotrexate: pharmacology, clinical uses and adverse effects. Editors: Valentina S. Castillo and Laura A. Moyano. - New York : Nova Publishers, 2012, p. 209-216. ISBN 978-1-62100-596-4. Typ: AEC

VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIESOLOVÁ, Elena - NAGY, Milan - MISLOVIČOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: testing of arbutin in the function of antioxidant : chapter 2. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. - New York : Nova Science Publishers, 2012, p. 11-27. ISBN 978-1-61470-712-7. Typ: ABC

2.) Sociálny stres ako rizikový faktor včasného rozvoja hypertenzie u predisponovaných jedincov (*Gender differences in etiopathogenesis of social stress-related cardiovascular and behavioral disorders in individuals with predisposition to hypertension*)

Zodpovedný riešiteľ:	Iveta Bernátová
Zodpovedný riešiteľ v organizácii SAV:	Ružena Sotníková
Trvanie projektu:	1.1.2010 / 31.12.2013
Evidenčné číslo projektu:	VEGA 2/0084/10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	
Počet spoluriešiteľských inštitúcií:	2 - Slovensko: 2
Čerpané financie:	

Dosiahnuté výsledky:

Zisťoval sa vplyv chronického sociálneho stresu (crowding) na funkciu mezenterickej artérie Wistar Kyoto potkanov. Porovnával sa účinok farmakologicky účinných látok na hlavnú rozvodnú artériu a na jej prvé vetvy. Zistili sme, že funkcia endotelu normotenzných potkanov nebola sociálnym stresom poškodená.

Influence of chronic social stress (crowding) on the superior mesenteric artery function of Wistar-Kyoto rats was studied. We compare the effect of pharmacologically active substances on the main artery as well as on its first branches. We found that the function of normotensive rats were not

influenced by social stress.

PÚZSEROVÁ, Angelika - TÖRÖK, Jozef - SOTNÍKOVÁ, Ružena - ZEMANČÍKOVÁ, Anna - BERNÁTOVÁ, Iveta. Reactivity of the mesenteric bed arteries of normotensive rats exposed to chronic social stress. In General Physiology and Biophysics, 2012, vol. 31, iss. 3, p. 279-290. (1.192 - IF2011). ISSN 0231-5882. VEGA 2/0084/10, VEGA 2/0193/10, VEGA 2/0086/08, APVV-0523-10. Typ: ADDA

3.) Vývinová neurotoxická venlafaxínu: experimentálna štúdia neurobehaviorálneho vývinu a neuroendokrinných odpovedí

Zodpovedný riešiteľ: Michal Dubovický
Trvanie projektu: 1.1.2011 / 31.10.2014
Evidenčné číslo projektu: 2/0084/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

4.) Účinok pyridoindolových derivátov v podmienkach experimentálneho modelu neurodegenerácie (*Effect of pyridoindole derivatives under conditions of the experimental model of neurodegeneration*)

Zodpovedný riešiteľ: Zdenka Gáspárová
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0048/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 1679 €

Dosiahnuté výsledky:

Na uskutočnenie vytýčených cieľov bolo potrebné zaviesť nový experimentálny model, ktorý sa doteraz na pracovisku nepoužíval. V modeli trimetylcínom vyvolanej neurodegenerácie dochádza k poškodeniu hipokampu a pamäte, používa sa preto pri štúdiu neurodegeneratívnych ochorení Alzheimerovho typu. V prvej etape projektu sa charakterizoval model na mozgu potkana kmeňa Wistar elektrofyziologicky, morfológicky a imunohistochemicky. Výsledky boli prezentované formou prednášky na 62. Farmakologických dňoch v Košiciach, 2012 a v publikácii, ktorá je prijatá do tlače v Neuroendocrinology Letters, 2012. Niektoré aspekty starnutia neurónov hipokampu potkana boli uverejnené v Cent. Eur. J. Biol., 2012.

GÁSPÁROVÁ, Zdenka – JANEGA, Pavol – STARÁ, Veronika – UJHÁZY, Eduard. Early and late stage of neurodegeneration induced by trimethyltin in hippocampus and cortex of male Wistar rats. In Neuroendocrinology Letters, 2012, accepted to press.

GÁSPÁROVÁ, Zdenka - JANEGA, Pavol - PRÓNAYOVÁ, Nad'a - LIPTAJ, Tibor. Middle-aged rat hippocampus and some early changes accompanying aging. In Central European Journal of Biology, 2012, vol. 7, no. 5, p. 810-816. (1.000 - IF2011). (2012 - Current Contents). ISSN 1895-104X. VEGA 2/0048/11. Typ: ADCA

5.) Modulácia kalciových púmp na úrovni sarkoplazmatického retikula (SR). Erytrocytov (RBCs) a pankreatických beta-buniek vo vzťahu k diabetu

Zodpovedný riešiteľ: Ľubica Horáková
Trvanie projektu: 1.1.2011 / 31.12.2014
Evidenčné číslo projektu: 2/0038/11
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

6.) 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*)

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

Dosiahnuté výsledky:

7.) 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: 0
Čerpané financie:

Dosiahnuté výsledky:

8.) Substituované pyridoindoly ako potenciálne látky s „multi-target“ účinkom v prevencii a liečbe niektorých chronických ochorení - teoretický screening (*Substituted pyridoindoles as potential multi-target-directed ligands in prevention and treatment of chronic diseases - theoretical screening*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 1.1.2011 / 31.12.2013
Evidenčné číslo projektu: 2/0030/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: VEGA: 2504 €

Dosiahnuté výsledky:

- JUSKOVÁ, Mária - MÁJEKOVÁ, Magdaléna - DEMOPOULOS, Vassilis J. - ŠTEFEK, Milan. Substituted derivatives of indole acetic acid as aldose reductase inhibitors with antioxidant activity: structure-activity relationship. In General Physiology and Biophysics, 2011, vol. 30, no. 4, p. 342-349. (1.146 - IF2010). (2011 - Current Contents).
- MÁJEKOVÁ, Magdaléna - ŠTOLC, Svorad - KOVÁČIKOVÁ, Lucia - ĎURIŠOVÁ, Mária - BOCA, Roman - MÁJEK, Pavol. Pyridoindole compounds with neuroprotective properties - theoretical screening and modeling of their interaction with MAO-B. In CM1103 Action WG. "Structure-based drug design for diagnosis and treatment of neurological diseases: Dissecting and modulating complex function in the monoaminergic systems of the brain". - Madrid, 2012, non pagin.
- MÁJEKOVÁ, Magdaléna - KOVÁČIKOVÁ, Lucia - ŠTOLC, Svorad - MÁJEK, Pavol. The use of advanced statistical methods in the study of pyridoindole compounds with neuroprotective effects. In EuroQSAR : Knowledge Enabled Ligand Design. August 26-30, 2012, Vienna, Austria. Abstract Book [elektronický zdroj]. - Vienna, 2012, p. 195.

9.) Celulárne a funkčné aspekty farmakologickej modulácie aktivity proteínkinázy C (*Molecular and functional aspects of the pharmacological modulation of protein kinase C activity*)

Zodpovedný riešiteľ: Radomír Nosál
Trvanie projektu: 1.1.2010 / 31.12.2012
Evidenčné číslo projektu: 2/0003/10
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

Ovplyvnenie aktivity proteín kinázy C vo vzťahu k oxidačnému vzplanutiu neutrofilov
Pterostilbén a kvercetín v závislosti od koncentrácie znižovali tvorbu superoxidu v izolovaných ľudských neutrofiloch aktivovaných PMA (priama stimulácia proteín kinázy C), ako aj uvoľnenie myeloperoxidázy. Spontánnu aktivitu neutrofilov pterostilbén a kvercetín neovplyvnili. Z našich výsledkov vyplýva, že sledované látky môžu znížiť nadmernú aktiváciu neutrofilov v mieste zápalu a podporiť tak ukončenie zápalového procesu.

MAČIČKOVÁ, Tatiana - PEČİVOVÁ, Jana - HARMATHA, Juraj - SVITEKOVÁ, Klára - NOSÁL, Radomír. Influence of pterostilbene on superoxide generation and myeloperoxidase release from human neutrophils. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 76-83. ISBN 978-80-971042-0-7. (1,0)

MAČIČKOVÁ, Tatiana - PEČİVOVÁ, 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. doi: 10.2478/v10102-012-0010-9. (1,0)

PEČİVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL, Radomír. In vitro effect of quercetin on respiratory burst of human neutrophils. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 93-97. ISBN 978-80-971042-0-7. (1,0)

PEČİVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL, Radomír. Quercetin inhibits degranulation and superoxide generation in PMA stimulated neutrophils. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 81-83. ISSN 1337-6853. doi: 10.2478/v10102-012-0010-9. (1,0)

Ovplyvnenie funkcií neutrofilov aktiváciou izoform PKC

Účinok pinosylvínu a arbutínu na proteín kinázou C („klasické“, „nové“, „atypické“ izoformy PKC) sprostredkovanú aktiváciu respiračného vzplanutia a degranuláciu izolovaných ľudských neutrofilov sme sledovali pomocou stimulov TNF-alfa a PMA. TNF- alfa, aktivuje atypické a PMA, aktivuje klasické izoformy proteín kinázy C. Tvorba superoxidu a uvoľnenie enzýmov (myeloperoxidázy a elastázy) boli zvýšené v poradí TNF- alfa < PMA < TNF- alfa+PMA. Pinosylvín a arbutín inhibovali sledované parametre po stimulácii izoenzýmov PKC jednotlivo (TNF- alfa, PMA), ako aj súčasne po stimulácii (TNF- alfa + PMA), naznačujúc možnú interferenciu s klasickými ako aj atypickými izoformami PKC.

MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - HARMATHA, Juraj - SVITEKOVÁ, Klára - NOSÁL, Radomír. Effect of the natural antioxidant pinosylvin on human neutrophils after TNF- α stimulation in vitro. In TOXCON 2012. Toxicology at the crossroad : 17th Intedisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 49. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 49. ISSN 1337-6853. (1,0)

PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL, Radomír. Are atypical isoforms of PKC involved in respiratory burst of human neutrophils? In TOXCON 2012. Toxicology at the crossroad : 17th Intedisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 62. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 62. ISSN 1337-6853. (1,0)

10.) Štúdium pôsobenia reaktívnych foriem kyslíka a dusíka na vysokomolekulový hyalurónan, synoviocyty a chondrocyty (*Study of Actions of the Reactive Oxygen/Nitrogen Species on High-Molar-Mass Hyaluronan, Synoviocytes, and Chondrocytes*)

Zodpovedný riešiteľ:	Ladislav Šoltés
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0011/11
Organizácia je koordinátorom projektu:	áno
Koordinátor:	Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

Pomocou rotačnej viskozimetrie sme sledovali oxidačnú degradáciu hyalurónanu v prítomnosti Cu(II) a askorbátu. Následne sme sledovali protektívne pôsobenie antioxidantov/liečiv voči generovaným \bullet OH a peroxylovým radikálom v závislosti od času a koncentrácie. Z testovaných látok sme sa zamerali predovšetkým na tiolové zlúčeniny, a to: glutatión, cysteín, cysteamín, N-acetylcysteín, kúpeľné termálne vody, bucilamín a jeho oxidovaný metabolit. Otestovali sme aj zlúčeniny „netiolového“ typu, ako je arbutín, stobadín a jeho deriváty. Najvýraznejší protektívny efekt sme zaznamenali u tiolových zlúčenín, konkrétne u bucilamínu, aurotiomalátu a u glutatiónu. Uskutočnili sme aj ABTS stanovenie, kde sa preukázala vysoká účinnosť pri vychytávaní ABTS \bullet u bucilamínu a glutatiónu.

Valachova K., Vargova A., Raptá P., Hrabarova E., Drafi F., Bauerova K., Juranek I., Soltes L. Aurothiomalate as preventive and chain-breaking antioxidant in radical degradation of high-molar-mass hyaluronan. Chem. Biodivers. 8 (2011) 1274-1283.

Schiller J., Volpi N., Hrabarova E., Soltes L. Hyaluronic acid: a natural biopolymer. In: "Biopolymers: Biomedical and Environmental Applications" S. Kalia and L. Averous (eds), Wiley-Scrivener Publishing, USA 2011 pp. 3-34.

Valachova K., Hrabarova E., Priesolova E., Nagy M., Banasova M., Juranek I., Soltes L. Free-radical degradation of high-molecular-weight hyaluronan induced by ascorbate plus cupric ions. Testing of buccillamine and its SA981-metabolite as antioxidants. *J. Pharm. Biomed. Anal.* 56 (2011) 664-670.

Hrabarova E., Juranek I., Soltes L. Pro-oxidative effect of peroxynitrite regarding biological systems: a special focus on high-molar-mass hyaluronan degradation. *General. Physiol. Biophys.* 30 (2011) 223-238.

Hrabarova E., Valachova K., Juranek I., Soltes L. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: Evaluation of antioxidative effect of cysteine-derived compounds. *Chem. Biodivers.* 9 (2012) 309-317.

Surovcikova-Machova L., Valachova K., Banasova M., Snirc V., Priesolova E., Nagy M., Juranek I., Soltes L. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: Testing of stobadine and its two derivatives in function as antioxidants. *General. Physiol. Biophys.* 31 (2012) 57-64.

Hrabarova E., Rychly J., Sasinkova V., Valachova K., Janigova I., Csomorova K., Juranek I., Soltes L. Structural characterisation of thiol-modified hyaluronans. *Cellulose* 19 (2012) 2093-2104.

Juranek I., Soltes L. Reactive oxygen species in joint physiology: Possible mechanism of maintaining hypoxia to protect chondrocytes from oxygen excess via synovial fluid hyaluronan peroxidation. In: "Kinetics, Catalysis and Mechanism of Chemical Reactions: From Pure to Applied Science. Volume 2 - Tomorrow and Perspectives" R. M. Islamova, S. V. Kolesov, G. E. Zaikov (eds), Nova Science Publishers, New York 2012 pp. 1-10.

Valachova K., Rapta P., Slovakova M., Priesolova E., Nagy M., Mislovicova D., Drafi F., Bauerova K., Soltes L. Radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions. Testing of arbutin in the function of antioxidant. In: "Kinetics, Catalysis and Mechanism of Chemical Reactions: From Pure to Applied Science. Volume 2 - Tomorrow and Perspectives" R. M. Islamova, S. V. Kolesov, G. E. Zaikov (eds), Nova Science Publishers, New York 2012 pp. 11-28.

Hrabarova E., Valachova K., Juranek I., Soltes L. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions. Anti-oxidative properties of the Piešťany-spa curative waters from healing peloid and maturation pool. In: "Kinetics, Catalysis and Mechanism of Chemical Reactions: From Pure to Applied Science. Volume 2 - Tomorrow and Perspectives" R. M. Islamova, S. V. Kolesov, G. E. Zaikov (eds), Nova Science Publishers, New York 2012 pp. 29-36.

Valachova K., Banasova M., Machova L., Juranek I., Bezek S., Soltes L. Testing various hexahydropyridoindoles to act as antioxidants. In: "New Perspectives in Chemistry and Biochemistry" G. E. Zaikov (eds), Nova Science Publishers, New York, in press.

Banasova M., Valachova K., Juranek I., Soltes L. Aloe vera and methylsulfonylmethane as dietary supplements: Their potential benefits to arthritic patients with diabetic complications. In: "New Perspectives in Chemistry and Biochemistry" G. E. Zaikov (eds), Nova Science Publishers, New York, in press,

Banasova M., Sasinkova V., Mendichi R., Perecko T., Valachova K., Juranek I., Soltes L. Free-

radical degradation of high-molar-mass hyaluronan induced by Weissberger's oxidative system: Potential antioxidative effect of bucillamine. *NeuroEndocrinol. Lett.*, in press.

Valachova K., Banasova M., Machova L., Juranek I., Bezek S., Soltes L. Practical hints on testing various hexahydropyridoindoles to act as antioxidants. In: "Chemistry and Physics of Modern Materials" G. E. Zaikov (eds), Apple Academic Press, Taylor & Francis Group, New York, in press.

11.) Molekulové modelovanie, syntéza a biologická aktivita substituovaných pyridoindolov ako bifunkčných agens v prevencii diabetických komplikácií (*Molecular modeling, synthesis and biological activity of substituted pyridoindoles as bifunctional agents in prevention of diabetic complications*)

Zodpovedný riešiteľ:	Milan Štefek
Trvanie projektu:	1.1.2011 / 31.12.2014
Evidenčné číslo projektu:	2/0067/11
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	

Dosiahnuté výsledky:

U substituovaných derivátov kyseliny 1-indolactovej, (3-dietylaminometyl-indol-1-yl) octová kyselina (1), (3-morfolino-4-yl-metyl-indol-1-yl) octová kyselina (2), (3-pyrolidin-1-yl-metyl-indol-1-yl) octová kyselina (3) a (3-dimetylaminometyl-2-metyl-indol-1-yl) octová kyselina (4), sme zaznamenali zníženú inhibíciu enzýmu ALR2 (IC₅₀ v rozpätí 30-40 μ M) v porovnaní s nesubstituovanou kyselinou (IC₅₀ \sim 8 μ M). Náhrada zvyšku kyseliny octovej zvyškom kyseliny propiónovej mala za následok výrazné zníženie inhibičnej aktivity. Analýza enzýmovej kinetiky pre látku (1) preukázala akompetitívny typ inhibície. Metódou molekulového modelovania „docking“ sa identifikovali kľúčové interakcie inhibítorov so špecifickými aminokyselinami v inhibičnom väzobnom mieste aldózareduktázy. Selektivita inhibície je pre študované deriváty 1-4 charakterizovaná hodnotami IC₅₀ $>$ 100 μ M pre príbuznú aldehydreduktázu (ALR1). Distribučný profil (logD vs. pH) študovaných derivátov v systéme voda-oktanol sa vyznačuje maximom distribučného pomeru v oblasti fyziologického pH 7,4, čo je predpokladom dobrej biologickej dostupnosti v podmienkach in vivo. Záver: Deriváty kyseliny 1-indolactovej predstavujú skupinu účinných a selektívnych inhibítorov aldózareduktázy, s priaznivým fyzikálno-chemickým profilom determinujúcim biologickú dostupnosť, a teda s perspektívou farmakologického využitia v prevencii diabetických komplikácií.

PRNOVÁ, Marta - MILÁČKOVÁ, Ivana - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Inhibitory aldózareduktázy v prevencii diabetických komplikácií: predklinické štúdium derivátov kyseliny 1-indolactovej in vitro. In XXII. Diabetologické dni : program a súhrny prezentácií. 30. mája - 1. júna 2012, Košice. - Košice : Lagarto, 2012, s. 31. ISBN 978-80-970999-4-7. VEGA 2/0067/11, VEGA 2/0030/11

12.) Štúdium mechanizmov a možností skorej detekcie embryofetálneho poškodenia v dôsledku intrauterinnej a perinatálnej hypoxie (*The study of mechanisms and possible early detection of embryofetal damage caused by intrauterine perinatal hypoxia*)

Zodpovedný riešiteľ: Eduard Ujházy
Trvanie projektu: 1.1.2011 / 31.10.2014
Evidenčné číslo projektu: 2/0081/11
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

Cieľom práce bolo vyvinúť vhodný model pre štúdium účinkov subchronickej perinatálnej asfyxie (SPA) u potkanov. Z výsledkov vyplýva, že SPA spôsobila signifikantné zníženie priemernej hmotnosti plodov a placent, zvýšenú frekvenciu výskytu skorých resorpcií, skeletových anomálií plodov (hlavne jeho distálnych častí). Viscerálne anomálie plodov pozostávali z porúch vo vývine mozgových komôr (bočné a 3. mozgová komora) po SPA samíc v rôznych obdobiach gravidity (6.–15. resp. 19.–20. deň). V prezentovanej štúdii sa potvrdil teratogénny potenciál zníženej dodávky O₂ počas citlivých fáz prenatálneho vývinu potkanov. Použitý model SPA predstavuje vhodný prístup pre skríning a vyšetrovanie morfológických ukazovateľov asfyxie u matky a plodu.

The aim of this study was to develop a suitable model for studying subchronic perinatal asphyxia (SPA) in rats. Our results indicate that SPA caused significant reduction of fetal and placental weight, increased early resorptions. In the foetuses SPA produced abnormalities of distal parts of the skeleton, and anomalies in the development of brain ventricles after maternal asphyxia during gestation days 6–15 or 19–20. The present model proved to be useful for the study of asphyxial conditions during pregnancy. As it is non-invasive and allows to control asphyxial conditions, it appears suitable for the screening and investigation of indicators of asphyxia in the mother and fetus.

Publikácie :

UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - SEDLÁČKOVÁ, Natália - BABÁL, Pavel - DANIHEL, Ľudovít - BRUCKNEROVÁ, Ingrid - MACH, Mojmir. Embryo-fetal assessment of a new model of subchronic perinatal asphyxia in rats. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 131-141. ISBN 978-80-971042-0-7. ITMS 26240220005.

UJHÁZY, Eduard - MACH, Mojmir - NAVAROVÁ, Jana - DUBOVICKÝ, Michal. Teratology on the crossroads: historical aspects and modern approaches. In Neuroendocrinology Letters, 2012, vol. 33, no. 3, p. 304 - 313. (1.296 - IF2011). ISSN 0172-780X.

Programy: APVV

13.) Pohlavné rozdiely v etiopatogenéze kardiovaskulárnych a behaviorálnych porúch v dôsledku sociálnych stresov u jedincov s predispozíciou k hypertenzii

Zodpovedný riešiteľ: Iveta Bernátová
Zodpovedný riešiteľ v organizácii SAV: Ružena Sotníková
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0523-10
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

14.) Sociálny stres ako rizikový faktor včasného rozvoja hypertenzie u predisponovaných jedincov (*Sex differences in ethiopathogenesis of social stress-related cardiovascular and behavioral disorders in individuals with predispositions to hypertension*)

Zodpovedný riešiteľ: Iveta Bernátová
Zodpovedný riešiteľ v organizácii SAV: Ružena Sotníková
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0523-10
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: APVV: 3636 €

Dosiahnuté výsledky:

Študoval sa vplyv sociálneho stresu na endotelovú funkciu mezenterickej artérie (SMA) hypertenzných potkanov. Zistilo sa, že sociálny stres vyvoláva zníženie relaxácie závislej od endotelu. Súbežný patologický zásah - ischemia/reperfúzia nespôsobuje ďalšie zhoršenie endotelovej funkcie. Výsledky boli prezentované formou posteru na FEPS Meetingu 2012. Influence of social stress on the superior mesenteric artery (SMA) endothelial function of hypertensive rats was studied. We found social stress to induce decrease in the endothelium-dependent relaxation. Mesenteric ischemia/reperfusion did not induce any further impairment of the response of SMA to acetylcholine. The results were presented at FEPS Meeting 2012 SOTNÍKOVÁ, Ružena - PÚZSEROVÁ, Angelika - NOSÁĽOVÁ, Viera - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta. Detrimental effect of crowding stress on vascular functional integrity. Interaction with ischemia/reperfusion. In Joint FEPS & Spanish physiological society scientific congress 2012 : Santiago de Compostela (Spain), September 8 - 11, 2012. Congress venue: School of Medicine. - Santiago de Compostela : School of Medicine, 2012, Poster 207. APVV-0523-10, VEGA 2/0084/10. Typ: AFG
Ďalej sa sledoval vplyv veku a pohlavia na funkciu SMA HTG potkanov a na vplyv liečby atorvastatínom. Staré samice mali v porovnaní so samcami zhoršenú funkciu a výraznejší

terapeutický účinok atorvastatínu.

Further we studied the effect of age and sex on the SMA function of HTG rats and on the atorvastatin treatment.

SOTNÍKOVÁ, Ružena - BAČOVÁ, Barbara - VLKOVIČOVÁ, Jana - NAVAROVÁ, Jana - TRIBULOVÁ, Narcis. Sex differences in endothelial function of aged hypertriglyceridemic rats - effect of atorvastatin treatment. In *Interdisciplinary toxicology*, 2012, vol. 5, no. 3, p. 155-158. ISSN 1337-6853. VEGA 2/0049/09, VEGA 2/0084/10, VEGA 2/0046/12, APVV-0523-10. Typ: ADFB

15.) In silico, in vitro a ex vivo výskum vybraných antiinfekčných látok (*IN SILICO, IN VITRO AND EX VIVO RESEARCH CONCERNING ANTI-INFECTIVE COMPOUNDS*)

Zodpovedný riešiteľ: Magdaléna Májeková
Trvanie projektu: 1.1.2011 / 31.12.2012
Evidenčné číslo projektu: SK-RO-0008-10
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 4 - Rumunsko: 4
Čerpané financie: APVV: 252 €

Dosiahnuté výsledky:

STECOZA, Camelia Elena - RADULESCU, Flavian-Stefan - MIRON, Dalia Simona - NITULESCU, George Mihai - CIOLAN, Dragos - MÁJEKOVÁ, Magdaléna. Integrating the values of molecular descriptors in the prediction of biopharmaceutical properties for new compounds with dibenzothiepine structure. In *Farmacia*, 2011, vol. 59, no. 6, p. 820-829. (0.850 - IF2010).

Camelia Elena Stecoza, Magdaléna Májeková, Pavol Májek, Miron Teodor Caproiu and Luminita Marutescu. Novel Dibenzothiepins with Antibiofilm Activity Demonstrated by Microbiological Assays and Molecular Modeling. *Current Organic Chemistry*, 2013, 17, to be published (3.064 - IF2010).

16.) Molekulárne princípy ovplyvnenia aktivity a apoptózy fagocytov. Príspevok k novej stratégii farmakologickej modulácie zápalových procesov (*Molecular principles of regulation of phagocyte activity and apoptosis. Contribution to new pharmacological strategy for modulation of inflammatory processes*)

Zodpovedný riešiteľ: Radomír Nosál
Trvanie projektu: 1.5.2011 / 31.10.2014
Evidenčné číslo projektu: APVV-0052-10
Organizácia je áno
koordinátorom projektu:
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 2 - Česko: 2
Čerpané financie:

Dosiahnuté výsledky:

Stanovenie účinku prírodných polyfenolov na aktivitu ľudských neutrofilov

Regulácia aktivity neutrofilov predstavuje jeden z dôležitých faktorov v rozvoji resp. ukončení zápalovej reakcie. V súčasnosti sa venuje veľká pozornosť polyfenolickým látkam prírodného pôvodu, nakoľko mnohé z nich majú účinky, ktoré by sa dali využiť v prevencii a podpornej liečbe chronických zápalových ochorení. Sledovali sme účinok syntetických derivátov prírodných polyfenolov (deriváty stilbénu-resveratrol, pterostilbén, pinosylvín a piceatannol a deriváty kyseliny ferulovej-kurkumín a N-feruloyl sérotonín) na aktivitu ľudských neutrofilov z hľadiska ovplyvnenia respiračného vzplanutia a aktivácie proteínkinázy C.

Inhibičný účinok na produkciu oxidantov v ľudských neutrofiloch sme pozorovali u všetkých testovaných látok, pričom pôsobili extracelulárne (poradie účinnosti podľa hodnôt IC₅₀: resveratrol > N-feruloyl sérotonín > kurkumín > piceatannol > pterostilbén > pinosylvín), ako aj intracelulárne (poradie účinnosti podľa hodnôt IC₅₀: kurkumín > pinosylvín > resveratrol > N-feruloyl sérotonín > piceatannol > pterostilbén). Ďalej sme charakterizovali miesta zásahu testovaných látok, ktoré boli účinné intracelulárne (kurkumín, resveratrol, N-feruloyl sérotonín, piceatannol a pinosylvín). Hlavná pozornosť sa venovala proteín kináze C a jej izoformám alfa, beta II, ktoré sa podieľajú na regulácii aktivácie NADPH oxidázy a tvorbe oxidantov. Ukázali sme, že u testovaných látok bola inhibícia oxidačného vzplanutia sprevádzaná zníženou fosforyláciou izoformami PKC alfa a beta II.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Pharmacological modulation of activated neutrophils by natural polyphenols : chapt. 2. In Recent Research Developments in Pharmacology. Vol. 2. - Trivandrum : Research Signpost, 2011, p. 27-67. ISBN 987-81-308-0455-2. Vyšlo začiatkom r. 2012 (neuvedené v správe 2011)

JANČINOVÁ, Viera - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - DRÁBIKOVÁ, Katarína. The natural stilbenoid pinosylvin and activated neutrophils: effects on oxidative burst, protein kinase C, apoptosis and efficiency in adjuvant arthritis. In Acta Pharmacologica Sinica : official journal of the Chinese Pharmacological Society and Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 2012, vol. 33, no. 10, p. 1285-1292. (1.953 - IF2011). ISSN 1671-4083. (1.953 IF2011).

NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj. K mechanizmu inhibície oxidačného vzplanutia neutrofilných leukocytov prírodnými polyfenolmi. In Nové trendy vo farmakoterapii IV. : zborník prác. Zostavovatelia: Soňa Fraňová, Juraj Mokrá. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 82-87. ISBN 978-80-89544-32-5.

DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Polyphenol derivatives – potential regulators of neutrophil activity. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 65-70. doi: 10.2478/v10102-012-0010-9. ISSN 1337-6853.

Prírodné polyfenoly indukujú apoptózu neutrofilov

Neutrofily (neutrofilné polymorfonukleárne leukocyty) sú nielen dôležitými bunkami imunitného systému ale aj aktívnymi účastníkmi pri vzniku a rozvoji viacerých patologických stavov ako reumatoidná artritída alebo cystická fibróza. Tieto stavy sú spojené s pretrvávajúcou nadmernou aktiváciou a oneskorenou apoptózou neutrofilov, ktoré vedú k poškodeniu tkanív. Prírodné polyfenoly sú známe svojim proapoptotickým pôsobením na rôzne typy nádorových buniek. V našich experimentoch tieto látky indukovali apoptózu neutrofilov (kurkumín, resveratrol,

piceatannol) a zvyšovali aktivitu kaspázy-3, enzýmu, ktorý zodpovedá za exekučnú fázu apoptózy (pterostilbén, pinosylvín, kurkumín). Výsledky naznačujú, že niektoré prírodné polyfenoly sú schopné nielen inhibovať procesy spojené so vznikom a rozvojom zápalu, ale môžu podporovať aj ukončenie zápalovej reakcie - prostredníctvom indukcie apoptózy neutrofilov.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁĽ, Radomír HARMATHA, Juraj - JANČINOVÁ, Viera. Effect of stilbene derivatives on human neutrophil viability. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 109-117. ISBN 978-80-971042-0-7.

JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁĽ, Radomír - DRÁBIKOVÁ, Katarína. Decreased activity and accelerated apoptosis of neutrophils in the presence of natural polyphenols. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 59-64. doi: 10.2478/v10102-012-0010-9. ISSN 1337-6853.

JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁĽ, Radomír - DRÁBIKOVÁ, Katarína. Pharmacological inhibition of neutrophil pro-inflammatory activity. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 66-75. ISBN 978-80-971042-0-7.

PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁĽ, Radomír HARMATHA, Juraj - JANČINOVÁ, Viera. Involvement of caspase-3 in stilbene derivatives induced apoptosis of human neutrophils in vitro. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 76-80. ISSN 1337-6853. doi: 10.2478/v10102-012-0010-9.

19.) Výskum technológií príprav disperzných koloidných sústav s multifunkčným efektom s realizáciou v liečebnej kozmetike

Zodpovedný riešiteľ:	Ladislav Šoltés
Trvanie projektu:	1.5.2011 / 31.10.2014
Evidenčné číslo projektu:	APVV-0351-10
Organizácia je koordinátorom projektu:	nie
Koordinátor:	VIPO, Partizánske
Počet spoluriešiteľských inštitúcií:	0
Čerpané financie:	APVV: 2931 €

Dosiahnuté výsledky:

Programy: Štrukturálne fondy EÚ Bratislavský kraj

20.) Hodnotenie prírodných látok a ich výber pre prevenciu a liečbu civilizačných ochorení

Zodpovedný riešiteľ:	Dana Haasová
Zodpovedný riešiteľ v organizácii SAV:	Ľubica Horáková

Trvanie projektu: 1.6.2010 / 31.5.2013
Evidenčné číslo projektu: ITMS kód 26240220040
Organizácia je koordinátorom projektu: nie
Koordinátor: BEL/NOVAMANN International s.r.o.
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie: EU ŠF: 18061 €

Dosiahnuté výsledky:

21.) Centrum excelentnosti pre glykomiku (*Centre of excellence for glycomics*)

Zodpovedný riešiteľ: Ján Mucha
Zodpovedný riešiteľ v organizácii SAV: Zuzana Brnoliaková
Trvanie projektu: 1.10.2010 / 31.10.2013
Evidenčné číslo projektu: ITMS 26240120031
Organizácia je koordinátorom projektu: nie
Koordinátor:
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

22.) Transfer poznatkov a technológií z výskumu a vývoja v toxikológii na hodnotenie environmentálneho a zdravotného rizika

Zodpovedný riešiteľ: Radomír Nosál
Trvanie projektu: 1.1.2010 / 30.6.2012
Evidenčné číslo projektu: Kód ITMS: 26240220005
Organizácia je koordinátorom projektu: áno
Koordinátor: Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských inštitúcií: 0
Čerpané financie:

Dosiahnuté výsledky:

Programy: Iné projekty

23.) MVTS: Chémia neenzymatických modifikácii proteínov - modulácia proteínovej štruktúry a funkcie.

Zodpovedný riešiteľ:	Ľubica Horáková
Trvanie projektu:	1.11.2010 / 1.11.2014
Evidenčné číslo projektu:	
Organizácia je	áno
koordinátorom projektu:	
Koordinátor:	Ústav experimentálnej farmakológie a toxikológie SAV
Počet spoluriešiteľských	0
inštitúcií:	
Čerpané financie:	

Dosiahnuté výsledky:

Príloha C

Publikačná činnosť organizácie (zoradená podľa kategórií)

AAB Vedecké monografie vydané v domácich vydavateľstvách

- AAB01 Drugs: their action in pharmacology and toxicology. Editors: Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012. 189 p. ISBN 978-80-971042-0-7.
- AAB02 KOŠŤÁLOVÁ, Daniela - FIALOVÁ, Silvia - RAČKOVÁ, Lucia. Fytoterapia v súčasnej medicíne. 1. vyd. Martin : Osveta, 2012. 379 s. ISBN 9788080633844.

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 BAUEROVÁ, Katarína - PONIŠT, Silvester - NOSÁL, Radomír - STANČÍKOVÁ, Mária - ROVENSKÝ, Jozef. Modern pharmacological approaches to therapies: substances tested in animal models of rheumatoid arthritis : chapter 12. In Rheumatoid Arthritis - Treatment. 1th ed. - Rijeka : INTECH, 2011, p. 233-268. ISBN 978-953-307-850-2. VEGA 2/0045/11, VEGA 2/0090/08, VEGA 2/0003/10, APVV-51-017905, APVV-3015-07, APVV-21-055205, APVV-0052-10.
- ABC02 PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Pharmacological modulation of activated neutrophils by natural polyphenols : chapt. 2. In Recent Research Developments in Pharmacology. Vol. 2. - Trivandrum : Research Signpost, 2011, p. 27-67. ISBN 987-81-308-0455-2. VEGA 2/0003/10, APVV-052-10, APVV-0315-07, ITMS 26240220005.
- ABC03 VALACHOVÁ, Katarína - RAPTA, Peter - SLOVÁKOVÁ, M. - PRIESOLOVÁ, Elena - NAGY, Milan - MISLOVIČOVÁ, Danica - DRÁFI, František - BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav. Radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: testing of arbutin in the function of antioxidant : chapter 2. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. - New York : Nova Science Publishers, 2012, p. 11-27. ISBN 978-1-61470-712-7. VEGA 1/0145/10, VEGA 2/0011/11, VEGA 2/0045/11, APVV 0488-07, APVV 0351-10, ITMS 26220120054.
- ABC04 VISKUPIČOVÁ, Jana - ONDREJOVIČ, Miroslav - MALIAR, Tibor. Enzyme-mediated preparation of flavonoid esters and their applications : chapter 10. In Biochemistry. - Rijeka : InTech, 2012, p. 263-286. ISBN 978-953-51-0076-8. ITMS 26240220040, APVV-VMSP-II-0021-09.

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - NAVAROVÁ, Jana - GONCALVESOVÁ, Eva - VAN ROYEN, Jacques - WEISMANN, Peter - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Up-regulation of myocardial connexin-43 in spontaneously hypertensive rats fed red palm oil is most likely implicated in its anti-arrhythmic effects. In Canadian Journal of Physiology and Pharmacology, 2012, vol. 90, p. 1235-1245. (1.953 - IF2011). (2012 - Current Contents). ISSN 0008-4212. VEGA 2/0049/09, VEGA 2/0046/12, APVV SK-CZ-0027-11.
- ADCA02 BAUEROVÁ, Katarína - MIHALOVÁ, Danica - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - KUCHARSKÁ, Jarmila - PAULOVÍČOVÁ, Ema - NOSÁL,

- ADCA03 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. VEGA 2/0045/11, APVV-51-017905, APVV-03015-07, APVV-21-055205.
- ADCA04 BLÁŠKOVIČ, Dušan - DRŽÍK, Filip - VISKUPIČOVÁ, Jana - ŽÍŽKOVÁ, Petronela - VEVERKA, Miroslav - HORÁKOVÁ, Ľubica. Effects of novel quercetin derivatives on sarco/endoplasmic reticulum Ca^{2+} -ATPase activity. In Neuroendocrinology Letters, 2012, vol. 33, suppl. 3, p. 190-197. (1.296 - IF2011). ISSN 0172-780X. ITMS 26240220040.
- ADCA05 BRUCKNEROVÁ, Ingrid - HOLOMÁŇOVÁ, Anna - MACH, Mojmir - UJHÁZY, Eduard. From pediatric history. Important personalities in relation to some genetic defects - "trisomies". In Neuroendocrinology Letters, 2012, vol. 33, no. 7, p. (1.296 - IF2011). ISSN 0172-780X. VEGA 2/0081/11.
- ADCA06 BRUCKNEROVÁ, Ingrid - HOLOMÁŇOVÁ, Anna - UJHÁZY, Eduard - MACH, Mojmir. Sixty-year anniversary of the Apgar scoring system and 100-year anniversary of the "Moro" reflex. In Neuroendocrinology Letters, 2012, vol. 33, no. 8, p. (1.296 - IF2011). ISSN 0172-780X. VEGA 2/0081/11.
- ADCA07 BRUCKNEROVÁ, Ingrid - KALDARÁROVÁ, Monika - GAJDOŠ, Marek - MACH, Mojmir - DUBOVICKÝ, Michal - UJHÁZY, Eduard. The influence of malformation of Galen vein on the cardiovascular system in a newborn. In Neuroendocrinology Letters, 2011, vol. 32, suppl. 1, p. 5-7. (1.621 - IF2010). ISSN 0172-780X. VEGA 2/0081/11.
- ADCA08 FEKETOVÁ, Lucia - JANČOVÁ, Petra - MORAVCOVÁ, Petra - JANEGOVÁ, Andrea - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - JANEGA, Pavol - BABÁL, Pavel. Effect of methotrexate on inflammatory cells redistribution in experimental adjuvant arthritis. In Rheumatology international, 2012, vol. 32, p. 3517-3523. (1.885 - IF2011). (2012 - Current Contents). ISSN 0172-8172. APVV 51-017905, VEGA 2/0093/08, VEGA 2/0045/11. Dostupné na internete: <<http://www.springerlink.com/content/u43h623j56338568/fulltext.pdf>>.
- ADCA09 GÁSPÁROVÁ, Zdenka - JANEGA, Pavol - STARÁ, Veronika - UJHÁZY, Eduard. Early and late stage of neurodegeneration induced by trimethyltin in hippocampus and cortex of male Wistar rats. In Neuroendocrinology Letters, 2012, vol. 33, no. 7, p. (1.296 - IF2011). ISSN 0172-780X. VEGA 2/0048/11, VEGA 2/0081/11.
- ADCA10 GÁSPÁROVÁ, Zdenka - JANEGA, Pavol - PRÓNAYOVÁ, Nad'a - LIPTAJ, Tibor. Middle-aged rat hippocampus and some early changes accompanying aging. In Central European Journal of Biology, 2012, vol. 7, no. 5, p. 810-816. (1.000 - IF2011). (2012 - Current Contents). ISSN 1895-104X. VEGA 2/0048/11.
- ADCA11 HRABÁROVÁ, Eva - RYCHLÝ, Jozef - SASINKOVÁ, Vlasta - VALACHOVÁ, Katarína - JANIGOVÁ, Ivica - CSOMOROVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Structural characterisation of thiol-modified hyaluronans. In Cellulose, 2012, vol. 19, no. 6, p. 2093-2104. (3.600 - IF2011). (2012 - Current Contents). ISSN 0969-0239. VEGA 2/0083/09, VEGA 1/0529/09, VEGA 2/0056/10, VEGA 1/0145/10, VEGA 2/0011/11, VEGA 2/0147/12, ITMS 26220120054, ITMS 26240220040.
- ADCA11 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: evaluation of antioxidative effect of cysteine-derived compounds. In Chemistry & biodiversity, 2012, vol. 9, no. 2, p. 309-317. (1.804 - IF2011). (2012 - Current Contents). ISSN 1612-1872. VEGA 2/0115/09, VEGA 2/0083/09, VEGA 2/0056/10, VEGA 2/0011/11, ITMS-26220120054, ITMS-26240220040.

- ADCA12 JANČINOVÁ, Viera - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - DRÁBIKOVÁ, Katarína. The natural stilbenoid pinosylvin and activated neutrophils: effects on oxidative burst, protein kinase C, apoptosis and efficiency in adjuvant arthritis. In Acta Pharmacologica Sinica : official journal of the Chinese Pharmacological Society and Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 2012, vol. 33, no. 10, p. 1285-1292. (1.953 - IF2011). (2012 - Current Contents). ISSN 1671-4083. APVV-0315-07, APVV-0052-10, VEGA 2/0003/10, VEGA 2/0045/11, GACR-203/07/1227.
- ADCA13 JANKYOVÁ, Stanislava - KMECOVÁ, Jana - ČERNECKÁ, Hana - MESÁROŠOVÁ, Lucia - MUSIL, Peter - BRNOLIAKOVÁ, Zuzana - KYSELOVIČ, Ján - BABÁL, Pavel - KLIMAS, Ján. Glucose and blood pressure lowering effects of Pycnogenol® are inefficient to prevent prolongation of QT interval in experimental diabetic cardiomyopathy. In Pathology : research and practice, 2012, vol. 208, no. 8, p. 452-457. (2.378 - IF2011). (2012 - Current Contents). ISSN 0031-3025. VEGA 1/0377/09, grant UK/32/2010, ITMS 26240120023.
- ADCA14 MÉZEŠOVÁ, Lucia - JENDRUCHOVÁ-JAVORKOVÁ, Veronika - VLKOVIČOVÁ, Jana - KYSELOVÁ, Zuzana - NAVAROVÁ, Jana - BEZEK, Štefan - VRBJAR, Norbert. Antioxidant SMe1EC2 may attenuate the disbalance of sodium homeostasis in the organism induced by higher intake of cholesterol. In Molecular and Cellular Biochemistry : an international journal for chemical biology in health and disease, 2012, vol. 366, no. 1-2, p. 41-48. (2.057 - IF2011). (2012 - Current Contents). ISSN 0300-8177. VEGA 2/0115/10, VEGA 2/0086/08.
- ADCA15 UJHÁZY, Eduard - MACH, Mojmír - NAVAROVÁ, Jana - DUBOVICKÝ, Michal. Teratology on the crossroads: historical aspects and modern approaches. In Neuroendocrinology Letters, 2012, vol. 33, no. 3, p. 304 - 313. (1.296 - IF2011). ISSN 0172-780X. VEGA 2/0081/11.
- ADCA16 VISKUPIČOVÁ, Jana - DANIHELOVÁ, Martina - MÁJEKOVÁ, Magdaléna - LIPTAJ, Tibor - ŠTURDÍK, Ernest. Polyphenol fatty acid esters as serine protease inhibitors: a quantum-chemical QSAR analysis. In Journal of Enzyme Inhibition and Medicinal Chemistry, 2012, vol. 27, no. 6, p. 800-809. (1.617 - IF2011). ISSN 1475-6366.

ADDA Vedecké práce v domácich karentovaných časopisoch impaktovaných

- ADDA01 KYSELOVÁ, Zuzana. The nutraceutical potential of natural products in diabetic cataract prevention. In Journal of Food and Nutrition Research, 2012, vol. 51, no. 4, p. 185-200. (0.679 - IF2011). (2012 - Current Contents). ISSN 1336-8672. VEGA 2/0056/09, ITMS 26240220040.
- ADDA02 PÚZSEROVÁ, Angelika - TÖRÖK, Jozef - SOTNÍKOVÁ, Ružena - ZEMANČÍKOVÁ, Anna - BERNÁTOVÁ, Iveta. Reactivity of the mesenteric bed arteries of normotensive rats exposed to chronic social stress. In General Physiology and Biophysics, 2012, vol. 31, iss. 3, p. 279-290. (1.192 - IF2011). (2012 - Current Contents). ISSN 0231-5882. VEGA 2/0084/10, VEGA 2/0193/10, VEGA 2/0086/08, APVV-0523-10.
- ADDA03 SUROVČÍKOVÁ-MACHOVÁ, Ľubica - VALACHOVÁ, Katarína - BAŇASOVÁ, Mária - ŠNIRC, Vladimír - PRIESOLOVÁ, Elena - NAGY, Milan - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: testing of stobadine and its two derivatives in function as antioxidants. In General Physiology and Biophysics, 2012, vol. 31, iss. 1, p. 57-64. (1.192 - IF2011). (2012 - Current Contents). ISSN 0231-5882. VEGA 2/0011/11, 2/0083/09, 2/0081/11, ITMS 26240220040.

ADEA Vedecké práce v zahraničných nekarentovaných časopisoch impaktovaných

- ADEA01 BAŇASOVÁ, Mária - SASINKOVÁ, Vlasta - MENDICHI, Raniero - PEREČKO, Tomáš - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by Weissberger's oxidative system: potential antioxidative effect of buccillamine. In Neuroendocrinology Letters, 2012, vol. 33, suppl. 3, p. 151-154. (1.296 - IF2011). ISSN 0172-780X. VEGA 2/0011/11, VEGA 2/0149/12, VEGA 2/0143/09, VEGA 2/0003/10, APVV-0351-10, APVV-0052-10.

ADEB Vedecké práce v zahraničných nekarentovaných časopisoch neimpaktovaných

- ADEB01 ĎURIŠOVÁ, Mária. Physiologically based structure of mean residence time. In The Scientific World Journal, 2012, vol. 2012, 4 p. Doi: 10.1100/2012/610631. ISSN 1537-744X (online). BioSim contr.no. LSHB-CT-2004-005137 of FP6.

ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

- ADFB01 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Polyphenol derivatives – potential regulators of neutrophil activity. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 65-70. ISSN 1337-6853. ITMS 26240220005, APVV-0052-10.
- ADFB02 DRÁFI, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - FEDOROVA, Tatiana - HARMATHA, Juraj - NOSÁL, Radomír. Pharmacological influence on processes of adjuvant arthritis: Effect of the combination of an antioxidant active substance with methotrexate. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 84-91. ISSN 1337-6853. ITMS 26240220005, VEGA 2/0045/11, APVV-0315-07, APVV-0052-10, SAS-RAMS 2010-2012.
- ADFB03 DUBOVICKÝ, Michal - CSÁSZÁROVÁ, Estera - BRNOLIAKOVÁ, Zuzana - UJHÁZY, Eduard - NAVAROVÁ, Jana - MACH, Mojmír. Effect of prenatal administration of venlafaxine on postnatal development of rat offspring. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 92-97. ISSN 1337-6853. ITMS 26240220005, VEGA 2/0084/11.
- ADFB04 JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁL, Radomír - DRÁBIKOVÁ, Katarína. Decreased activity and accelerated apoptosis of neutrophils in the presence of natural polyphenols. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 59-64. ISSN 1337-6853. ITMS 26240220005, VEGA 2/0003/10.
- ADFB05 KARASU, Çimen - CUMAOGU, Ahmet - GÜRPINAR, Ali Rifat - KARTAL, Murat - KOVÁČIKOVÁ, Lucia - MILÁČKOVÁ, Ivana - ŠTEFEK, Milan. Aldose reductase inhibitory activity and antioxidant capacity of pomegranate extracts. In Interdisciplinary toxicology, 2012, vol. 5, no. 1, p.15-20. ISSN 1337-6853. ITMS 26240220040.
- ADFB06 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.
- ADFB07 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - HARMATHA, Juraj - JANČINOVÁ, Viera - PEREČKO, Tomáš - SVITEKOVÁ, Klára. Prírodné polyfenoly a oxidatívne

- vzplanutie profesionálnych fagocytov ľudskej krvi. In Lekársky obzor : odborný časopis Ministerstva zdravotníctva SR a Slovenskej postgraduálnej akadémie medicíny, 2012, roč. 51, č. 11, s. 399-403. ISSN 0457-4214. APVV-0052-10, VEGA 2/0003/10.
- ADFB08 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL, Radomír. Quercetin inhibits degranulation and superoxide generation in PMA stimulated neutrophils. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 81-83. ISSN 1337-6853. ITMS 26240220005, APVV 0315-07.
- ADFB09 PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Involvement of caspase-3 in stilbene derivatives induced apoptosis of human neutrophils in vitro. In Interdisciplinary toxicology, 2012, vol. 5, no. 2, p. 76-80. ISSN 1337-6853. ITMS 26240220005, VEGA 2/0003/10.
- ADFB10 SOTNÍKOVÁ, Ružena - BAČOVÁ, Barbara - VLKOVIČOVÁ, Jana - NAVAROVÁ, Jana - TRIBULOVÁ, Narcis. Sex differences in endothelial function of aged hypertriglyceridemic rats - effect of atorvastatin treatment. In Interdisciplinary toxicology, 2012, vol. 5, no. 3, p. 155-158. ISSN 1337-6853. VEGA 2/0049/09, VEGA 2/0084/10, VEGA 2/0046/12, APVV-0523-10.
- ADFB11 UJHÁZY, Eduard - MACH, Mojmir - 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 26240220005.
- ADFB12 VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - KNEZL, Vladimír - BENOVÁ, Tamara - GONCALVESOVÁ, Eva - TRIBULOVÁ, Narcis. Salutary effects of red palm oil intake on post-ischemic heart recovery and incidence of malignant arrhythmias demonstrated in hypertensive rats. In Cardiology Letters, 2012, vol. 21, no. 5, p. 388-396. ISSN 1336-2429. VEGA 2/0046/12, SK-UA 0022-09.

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

- AEC01 HRABÁROVÁ, Eva - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Free-radical degradation of high-molar-mass hyaluronan induced by ascorbate plus cupric ions: anti-oxidative properties of the Piešťany-spa curative waters from healing peloid and maturation pool : chapter 3. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. Editors Regina M. Islamova, Sergei V. Kolesov and Gennady E. Zaikov. - New York : Nova Science Publishers, 2012, p. 29-36. ISBN 978-1-61470-712-7. VEGA 2/0011/11, VEGA 2/0056/10, VEGA 2/0083/09, COST CM-1001, ITMS 26220120054, ITMS 26220220085, ITMS 26240220040.
- AEC02 JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Reactive oxygen species in joint physiology: possible mechanism of maintaining hypoxia to protect chondrocytes from oxygen excess via synovial fluid hyaluronan peroxidation : chapter 1. In Kinetics, catalysis and mechanism of chemical reactions. From pure to applied science : Volume 2: Tomorrow and perspectives. Editors Regina M. Islamova, Sergei V. Kolesov and Gennady E. Zaikov. - New York : Nova Science Publishers, 2012, p. 1 - 9. ISBN 978-1-61470-712-7. VEGA 2/0083/09, VEGA 2/0011/11.
- AEC03 JURÁNEK, Ivo - RAČKOVÁ, Lucia - ŠTEFEK, Milan. Stobadine - an indole type alternative to the phenolic antioxidant reference trolox : chapter 19. In Biochemistry. Edited by Deniz Ekinci. - Rijeka : InTech, 2012, p. 443-452. ISBN 978-953-51-0076-8. COST Action CM1001, VEGA 2/0083/09, 2/0067/11, 2/0149/12, APVV

51-017905.

- AEC04 ROVENSKÝ, Jozef - STANČÍKOVÁ, Mária - ŠVÍK, Karol - BAUEROVÁ, Katarína - JURČOVIČOVÁ, Jana. The effects of beta-glucan isolated from *Pleurotus ostreatus* on methotrexate chemotherapy. In *Methotrexate: pharmacology, clinical uses and adverse effects*. Editors: Valentina S. Castillo and Laura A. Moyano. - New York : Nova Publishers, 2012, p. 209-216. ISBN 978-1-62100-596-4.

AED Vedecké práce v domácich recenzovaných vedeckých zborníkoch (aj konferenčných), monografiách

- AED01 BAŇASOVÁ, Mária - KERNER, Lukáš - JURÁNEK, Ivo - PUTALA, Martin - VALACHOVÁ, Katarína - ŠOLTĚS, Ladislav. Bucillamine derivatives with enhanced potential to scavenge hypochlorite. In *Nové trendy vo farmakoterapii IV. : zborník prác*. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 14-19. ISBN 978-80-89544-32-5. VEGA 2/0011/11, VEGA 2/0149/12, APVV 0351-10.
- AED02 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Scavenging of oxygen-derived free radicals by bucillamine and its disulfide derivative SA981: the effect likely involved in the protection of oxidative hyaluronan degradation. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 176-184. ISBN 978-80-971042-0-7. VEGA 2/0011/11, VEGA 2/0149/12, APVV-0351-10.
- AED03 BAUER, Viktor - SOTNÍKOVÁ, Ružena - MÁTYÁS, Štefan. Pôsobenie reaktívnych foriem kyslíka na hladké svaly zažívacieho, dýchacieho systému a ciev. In *Nové trendy vo farmakoterapii IV. : zborník prác*. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 20-27. ISBN 978-80-89544-32-5. VEGA 2/0031/12.
- AED04 BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - DRÁFL, František - MIHALOVÁ, Danica - PONIŠT, Silvester. Prepojenie procesov oxidačného stresu a rozvoja zápalu zapojeného do etiopatogenézy reumatoidnej artritídy. In *Nové trendy vo farmakoterapii IV. : zborník prác*. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 28-38. ISBN 978-80-89544-32-5. VEGA 2/0045/11, APVV-0052-10.
- AED05 BEZEK, Štefan - BRNOLIAKOVÁ, Zuzana - SOTNÍKOVÁ, Ružena - KNEZL, Vladimír - NAVAROVÁ, Jana - DRÍMAL, Ján - BAUER, Viktor. Efficacy and safety of a new therapy of cholesterol metabolic disorders in hereditary hypertriglyceridemic rats. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 142-150. ISBN 978-80-971042-0-7.
- AED06 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Down-regulation of human neutrophil activity by natural polyphenols. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 99-108. ISBN 978-80-971042-0-7. ITMS 26240220005, VEGA 2/0003/10.
- AED07 DRÁFL, František - BAUEROVÁ, Katarína - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BOLDYREV, A. - HARMATHA, Juraj - NOSÁL, Radomír. Evaluation of combined methotrexate therapy with antioxidant

- active substances in adjuvant-induced arthritis. A new approach to rheumatoid arthritis treatment. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 161-175. ISBN 978-80-971042-0-7. ITMS 26240220005, SAS-RAMS 2012-2012, APVV-0052-10, APVV-0315-07, VEGA 2/0045/11.
- AED08 DUBOVICKÝ, Michal - UJHÁZY, Eduard - NAVAROVÁ, Jana - BEZEK, Štefan - MACH, Mojmir. Review: Developmental neurotoxicity - the other aspect of toxicity. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 118-130. ISBN 978-80-971042-0-7. ITMS 26240220005, VEGA2/0084/11.
- AED09 GAVOROVÁ, Katarína - FRIMMEL, Karel - NAVAROVÁ, Jana - OKRUHLICOVÁ, Ľudmila. Komunikačné spojenia endotelových buniek aorty hypertenzného potkana: morfometrická analýza elektrónmikroskopického obrazu. In *Odkaz Ladzianskeho pre budúce generácie III*. - Bratislava : Únia, 2012, s. 235-239. ISBN 978-80-970589-6-8. VEGA 2/0108/10.
- AED10 JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj - NOSÁL, Radomír - DRÁBIKOVÁ, Katarína. Pharmacological inhibition of neutrophil pro-inflammatory activity. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 66-75. ISBN 978-80-971042-0-7. ITMS 26240220005, APVV-0052-10.
- AED11 KUNCÍROVÁ, Viera - DRÁFI, František - PONIŠT, Silvester - MIHALOVÁ, Danica - ONDREJČKOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Efekt prídavku karnosínu k metotrexátovej antiartritickéj terapii : [Effect of carnosine addition to methotrexate anti-arthritic therapy]. In *Pokroky vo farmakológii v Slovenskej republike VII*. Editori: Pavel Švec, Magdaléna Kuželová, Ján Kyselovič. - Bratislava : Univerzita Komenského, Farmaceutická fakulta, 2012, s. 50-56. ISBN 978-80-223-3271-2. VEGA 2/0045/11.
- AED12 MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - HARMATHA, Juraj - SVITEKOVÁ, Klára - NOSÁL, Radomír. Influence of pterostilbene on superoxide generation and myeloperoxidase release from human neutrophils. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 76-83. ISBN 978-80-971042-0-7. ITMS 26240220005, APVV-3015-07.
- AED13 MÁJEKOVÁ, Magdaléna - MILÁČKOVÁ, Ivana - PRNOVÁ, Marta - ŠNIRC, Vladimír - GAJDOŠÍKOVÁ, Alena - GAJDOŠÍK, Andrej - ŠTEFEK, Milan. Review: Medicinal chemistry of aldose reductase inhibitors. In *Drugs: their action in pharmacology and toxicology*. Editors Viktor Bauer, Mojmir Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 151-160. ISBN 978-80-971042-0-7. ITMS 26240220040.
- AED14 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - HARMATHA, Juraj. K mechanizmu inhibície oxidačného vzplanutia neutrofilných leukocytov prírodnými polyfenolmi. In *Nové trendy vo farmakoterapii IV*. : zborník prác. Zostavovatelia: Soňa Fraňová, Juraj Mokry. - Martin : Jesseniova lekárska fakulta UK, 2012, s. 82-87. ISBN 978-80-89544-32-5. APVV-0052-10, VEGA 2/0003/10.
- AED15 NOSÁL, Radomír - BAUEROVÁ, Katarína - DRÁBIKOVÁ, Katarína - HARMATHA, Juraj - JANČINOVÁ, Viera - PEREČKO, Tomáš - PONIŠT, Silvester. Effect of polyphenols on neutrophil activation in adjuvant arthritis. In

- Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 84-92. ISBN 978-80-971042-0-7. ITMS 26240220005, VEGA 2/0003/10, APVV-052-10, APVV-0315-07.
- AED16 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL, Radomír. In vitro effect of quercetin on respiratory burst of human neutrophils. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 93-97. ISBN 978-80-971042-0-7. ITMS 26240220005, VEGA 2/0003/10.
- AED17 PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Effect of stilbene derivatives on human neutrophil viability. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p.109-117. ISBN 978-80-971042-0-7. ITMS 26240220005, APVV-0052-10.
- AED18 SEDLÁČKOVÁ, Natália - UJHÁZY, Eduard - DUBOVICKÝ, Michal - PONECHALOVÁ, Veronika - MACH, Mojmír. Štúdium analytických a antidepresívnych vlastností pyridoindolových derivátov využitím behaviorálnych metód : [Study of anxiolytic and antidepressant properties of the pyridoindole derivatives using behavioral methods]. In Pokroky vo farmakológii v Slovenskej republike VII. Editori: Pavel Švec, Magdeléna Kuželová, Ján Kyselovič. - Bratislava : Univerzita Komenského, Farmaceutická fakulta, 2012, s. 57-62. ISBN 978-80-223-3271-2. VEGA 2/0107/12.
- AED19 UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - SEDLÁČKOVÁ, Natália - BABÁL, Pavel - DANIHEL, Ľudovít - BRUCKNEROVÁ, Ingrid - MACH, Mojmír. Embryo-fetal assessment of a new model of subchronic perinatal asphyxia in rats. In Drugs: their action in pharmacology and toxicology. Editors Viktor Bauer, Mojmír Mach, Jana Navarová, Ružena Sotníková. - Bratislava : Institute of Experimental Pharmacology and Toxicology SAS, 2012, p. 131-141. ISBN 978-80-971042-0-7. ITMS 26240220005, VEGA 2/0081/11.

AEF Vedecké práce v domácich nerecenzovaných vedeckých zborníkoch, monografiách

- AEF01 BEZEK, Štefan - RAČKOVÁ, Lucia - KYSEĽOVÁ, Zuzana. Reactive oxygen species, oxidative liver cells injury and protective effect of pyridoindole derivative stobadin. In Zborník príspevkov 1. konferencie Centra excelentnosti pre glykomiku "Súčasná a budúca úloha CE pre glykomiku" : 23. máj 2012. - Bratislava : Chemický ústav SAV, 2012, nestr. ISBN 978-80-971156-0-9. ITMS 26240120031.
- AEF02 BEZEK, Štefan - RAČKOVÁ, Lucia - KYSEĽOVÁ, Zuzana. Účinky SMe1EC2 v oxidačnom strese izolovaných hepatocytov. In Zborník príspevkov 1. konferencie Centra excelentnosti pre glykomiku "Súčasná a budúca úloha CE pre glykomiku" : 23. máj 2012. - Bratislava : Chemický ústav SAV, 2012, nestr. ISBN 978-80-971156-0-9. ITMS 2624120031.
- AEF03 PAULOVICHOVÁ, Ema - VRÁBLOVÁ, Jana - FARKAŠ, Pavol - BEZEK, Štefan - BYSTRICKÝ, Slavomír. Immunobiological efficacy of Vibrio cholerae 01 LPS-derived moieties conjugated to BSA-glucan matrix. In Zborník príspevkov 1. konferencie Centra excelentnosti pre glykomiku "Súčasná a budúca úloha CE pre glykomiku" : 23. máj 2012. - Bratislava : Chemický ústav SAV, 2012, nestr. ISBN 978-80-971156-0-9. ITMS 26240120031.
- AEF04 RAČKOVÁ, Lucia - JUNG, Tobias - BEZEK, Štefan - GRUNE, Tilman. Glucotoxicity in pancreatic beta cells: role of protein modifications and proteasome.

In Zborník príspevkov 1. konferencie Centra excelentnosti pre glykomiku "Súčasná a budúce úlohy CE pre glykomiku" : 23. máj 2012. - Bratislava : Chemický ústav SAV, 2012, nestr. ISBN 978-80-971156-0-9. ITMS 26240120031.

AEGA Stručné oznámenia, abstrakty vedeckých prác v zahraničných karentovaných časopisoch impaktovaných

- AEGA01 BAČOVÁ, Barbara - VICZENCZOVÁ, Csilla - RADOŠINSKÁ, Jana - KNEZL, Vladimír - BERNÁTOVÁ, Iveta - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - VAN ROOYEN, Jacques - TRIBULOVÁ, Narcis. Cardioprotective effects of red palm oil intake demonstrated in hypertensive rats. In European Journal of Preventive Cardiology, 2012, vol. 19, suppl. 1, p. S31. (2.634 - IF2011). ISSN 2047-4873.
- AEGA02 BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - GONCALVESOVÁ, Eva - VAN ROOYEN, Jacques - TRIBULOVÁ, Narcisa. Increased myocardial connexin-43 and PKC-epsilon signalling is most likely implicated in cardioprotective effects of red palm oil demonstrated in SHR. In Cardiovascular Research, 2012, vol. 93, suppl. 1, p. S123-S124. (6.064 - IF2011). (2012 - Current Contents). ISSN 0008-6363. 2/0046/12.
- AEGA03 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - KNEZL, Vladimír - SOUKUP, Tomáš - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Omega-3 fatty acids intake attenuates arrhythmogenic distribution of myocardial gap junctions and reduces malignant arrhythmias in diseased rat hearts. In European Journal of Preventive Cardiology, 2012, vol. 19, suppl. 1., s137. (2.634 - IF2011). ISSN 2047-4873. VEGA 2/0046/12, GACR 304/08/0256.
- AEGA04 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - DOSENKO, Viktor - NAVAROVÁ, Jana - ZEMAN, M. - TRIBULOVÁ, Narcis. Melatonin up-regulates myocardial connexin-43 and increases threshold for malignant arrhythmia in spontaneously hypertensive rats. In European Heart Journal, 2012, vol. 32, p. 5. (10.478 - IF2011). (2012 - Current Contents). ISSN 0195-668X. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AEGA05 BLÁŠKOVÍČ, Dušan - DRŽÍK, Filip - VISKUPIČOVÁ, Jana - VEVERKA, Miroslav - HORÁKOVÁ, Ľubica. Effects of novel quercetin derivatives on sarco/endoplasmic reticulum Ca²⁺ -ATPase. In Free Radical Biology and Medicine. - Oxford : Elsevier Science, 2012, vol. 53, suppl. 1, p. S92-S93. (5.423 - IF2011). (2012 - Current Contents). ISSN 0891-5849. 16th Biennial Meeting of the Society for Free Radical Research International : 6-9 September 2012, Imperial College, London, UK. Programme Booklet. - London : SFRRI, 2012, p. S92-S93. (5.423 - IF2011). ITMS 262400220040, VEGA 2/0038/11.
- AEGA06 MACH, Mojmír - UJHÁZY, Eduard - SEDLÁČKOVÁ, Natália - DUBOVICKÝ, Michal. Psychoactive drugs in pregnancy: possible unfavorable effects on development. In Toxicology Letters : official journal of EUROTOX, 2012, vol. 211S, p. S186 - S187. (3.230 - IF2011). (2012 - Current Contents). ISSN 0378-4274. VEGA 2/0084/11, VEGA 2/0107/12.
- AEGA07 MILÁČKOVÁ, Ivana - PRNOVÁ, Marta - KOVÁČIKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - VEVERKA, Miroslav - ŠTEFEK, Milan. 2-Chloro-1,4-naphthoquinone derivative of quercetin as antioxidant and aldose reductase inhibitor in prevention of diabetic complications: preclinical study in vitro. In Free Radical Biology and Medicine. - Oxford : Elsevier Science, 2012, vol. 53, suppl. S1, p. S149. (5.423 - IF2011). (2012 - Current Contents). ISSN 0891-5849. 16th Biennial Meeting of the Society for Free Radical Research International : 6-9 September 2012, Imperial College, London, UK. Programme Booklet. - London : SFRRI, 2012, p. S149.

- (5.423 - IF2011). ITMS 26240220040.
- AEGA08 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. H1 versus H4 anti-histamines in human neutrophil oxidative burst. In *Inflammation research*, 2012, vol. 61, suppl. 2, p. S49. (2.109 - IF2011). (2012 - Current Contents). ISSN 1023-3830. VEGA 2/0003/07, APVV 0315-07, APVV 0052-10, COST BM0806.
- AEGA09 RAČKOVÁ, Lucia. Membrane proteins in microglia and exposure to cholesterol: manifold paths of influence. In *Free Radical Biology and Medicine*, 2012, vol. 53, suppl. S1, p. S182. (5.423 - IF2011). (2012 - Current Contents). ISSN 0891-5849. 16th Biennial Meeting of the Society for Free Radical Research International : 6-9 September 2012, Imperial College, London, UK. Programme Booklet. - London : SFRRI, 2012, p. S182. (5.423 - IF2011). DAAD scholarship No. A/11/13432, VEGA 2/0031/12, VEGA 2/0045/11, VEGA 2/0003/10, APCC-052-10.
- AEGA10 RADOŠINSKÁ, Jana - KNEZL, Vladimír - BEŇOVÁ, Tamara - URBAN, Ľubomír - HATALA, Róbert - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Impairment of cell-to-cell coupling protein, connexin-43, due to ventricular fibrillation and during sinus rhythm restoration demonstrated in male and female rat hearts. In *Circulation : journal of The American Heart Association*, 2012, vol. 125, no. 19, p. e174. (14.739 - IF2011). (2012 - Current Contents). ISSN 0009-7322.
- AEGA11 RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - GONCALVESOVÁ, Eva - VAN ROOYEN, Jacques - TRIBULOVÁ, Narcis. Antiarrhythmic and postischemic reperfusion-related cardioprotective effects of red palm oil demonstrated in hypertensive rats. In *Journal of Hypertension*, 2012, vol. 30, e-suppl. A, p. e29. (4.021 - IF2011). (2012 - Current Contents). ISSN 0263-6352.
- AEGA12 RADOŠINSKÁ, Jana - KNEZL, Vladimír - URBAN, Ľ. - HATALA, Róbert - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Alterations of electrical coupling protein, connexin-43, during ventricular fibrillation and sinus rhythm restoration demonstrated in perfused rat heart. In *Journal of Interventional Cardiac Electrophysiology : an international journal of arrhythmias and pacing*, 2012, vol. 33, p. 358. (1.166 - IF2011). (2012 - Current Contents). ISSN 1383-875X. VEGA 2/0046/12.
- AEGA13 RADOŠINSKÁ, Jana - KNEZL, Vladimír - BEŇOVÁ, Tamara - SLEZÁK, Ján - URBAN, Ľ. - TRIBULOVÁ, Narcisa. Ventricular fibrillation itself down-regulates connexin-43 while sudden increase of its un-phosphorylated form is likely involved in cardioversion demonstrated in perfused rat heart. In *Cardiovascular Research*, 2012, vol. 93, suppl. 1, p. S103. (6.064 - IF2011). (2012 - Current Contents). ISSN 0008-6363. VEGA 2/0046/12.
- AEGA14 ŠTEFEK, Milan - BARTOSZ, Gregorz - JUSKOVÁ, Mária - MILÁČKOVÁ, Ivana - MACH, Mojmír. Substituted hexahydropyridoindoles - Effective scavengers of free radicals. In *Toxicology Letters : official journal of EUROTOX*, 2012, vol. 211S, p. S168. (3.230 - IF2011). (2012 - Current Contents). ISSN 0378-4274.
- AEGA15 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - URBAN, Ľubomír - GONCALVESOVÁ, Eva - HATALA, Róbert. Myocardial cell-to-cell coupling protein, connexin-43, is implicated in antiarrhythmic mechanisms of atorvastatin and omega-3 fatty acids. In *Circulation : journal of The American Heart Association*, 2012, vol. 125, no. 19, p. e175. (14.739 - IF2011). (2012 - Current Contents). ISSN 0009-7322. VEGA 2/0049/09, 2/0046/12.
- AEGA16 TRIBULOVÁ, Narcis - BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - BEŇOVÁ, Tamara - KNEZL, Vladimír - GONCALVESOVÁ, Eva - SLEZÁK, Ján. Dietary omega-3 acid ethyl esters enhance omega-3 index, attenuate myocardial

- arrhythmogenic substrate and protect from malignant arrhythmias in a model of human essential hypertension. In *European Heart Journal*, 2012, vol. 32, p. 24. (10.478 - IF2011). (2012 - Current Contents). ISSN 0195-668X. VEGA 2/0046/12.
- AEGA17 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - HATALA, Róbert - SLEZÁK, Ján. Connexin-43 channels are implicated in antiarrhythmic effects of omega-3 FA in hypertensive rats. In *Journal of Interventional Cardiac Electrophysiology : an international journal of arrhythmias and pacing*, 2012, vol. 33, p. 291-292. (1.166 - IF2011). (2012 - Current Contents). ISSN 1383-875X. VEGA 2-0046-12.
- AEGA18 TRIBULOVÁ, Narcisa - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - SLEZÁK, Ján. Cellular mechanisms involved in antiarrhythmic effects of omega-3 fatty acids in young and old SHR. In *Cardiovascular Research*, 2012, vol. 93, suppl. 1, p. S21. (6.064 - IF2011). (2012 - Current Contents). ISSN 0008-6363. VEGA 2/0046/12.
- AEGA19 ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - VEVERKA, Miroslav - HORÁKOVÁ, Ľubica. New quercetin derivatives and their action on peroxynitrite-oxidized SERCA1. In *Free Radical Biology and Medicine*, 2012, vol. 53, suppl. S1, p. S99-S100. (5.423 - IF2011). (2012 - Current Contents). ISSN 0891-5849. 16th Biennial Meeting of the Society for Free Radical Research International : 6-9 September 2012, Imperial College, London, UK. Programme Booklet. - London : SFRRI, 2012, p. S99-S100. (5.423 - IF2011). ITMS 26240220040, VEGA 2/0038/11.

AFDA Publikované príspevky na medzinárodných vedeckých konferenciách poriadaných v SR

- AFDA01 OKRUHLICOVÁ, Ľudmila - DIENOVÁ, Jana - FRIMMEL, Karel - SOTNÍKOVÁ, Ružena. Medzilíniové rozdiely v priestorovej expresii konexínových izoformiem Cx37 a Cx40 v aorte potkanov. In *Cardiology Letters*, 2012, vol. 21, suppl. 1, p. 40S - 41S. ISSN 1336-2429. VEGA 2/0108/10.

AFE Abstrakty pozvaných príspevkov zo zahraničných konferencií

- AFE01 MÁJEKOVÁ, Magdaléna - ŠTOLC, Svorad - KOVÁČIKOVÁ, Lucia - ĎURIŠOVÁ, Mária - BOCA, Roman - MÁJEK, Pavol. Pyridoindole compounds with neuroprotective properties - theoretical screening and modeling of their interaction with MAO-B. In CM1103 Action WG. "Structure-based drug design for diagnosis and treatment of neurological diseases: Dissecting and modulating complex function in the monoaminergic systems of the brain". - Madrid, 2012, non pagin. COST-CM1103, VEGA 2/0067/11, VEGA 2/0030/11.
- AFE02 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - SLEZÁK, Ján. Cellular mechanisms involved in antiarrhythmic effects of omega-3 fatty acids in spontaneously hypertensive rats. In *Indian Journal of Hypertension*, november 2012, p. 58. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFE03 TRIBULOVÁ, Narcis - BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - ZEMAN, Michal - SLEZÁK, Ján - VACHULOVÁ, A. Fascicular ventricular tachycardia and ventricular myocardial maladaptation of connexin-43 to hypertension increases a risk for arrhythmic sudden death that can be attenuated by melatonin and omega-3 fatty acids. In Conference and advanced research workshop "Sudden cardiac death & cardioprotection" : programme and abstract book. 6-9 September 2012, Timisoara.

- Eds. Danina Muntean, András Varró. - Timisoara, 2012, p. 53. ISBN 978-606-8054-80-3. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFE04 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - SLEZÁK, Ján. Myocardial connexin-43 is implicated in adaption and maladaptation to hypertension as well as in cardioprotective effects of the treatment. In The 10th world congress of the International society for adaptive medicine : ISAM 2012, June 7-10, 2012, Bucharest, Romania. - Bucharest, 2012, p. 50.

AFG Abstrakty príspevkov zo zahraničných konferencií

- AFG01 BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - NAVAROVÁ, Jana - GONCALVESOVÁ, Eva - VAN ROOYEN, Jacques - WEISMANN, Peter - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Up-regulation of myocardial connexin-43 in spontaneously hypertensive rats fed red palm oil is most likely implicated in its anti-arrhythmic effects. In Indian Journal of Hypertension, november 2012, p. 58.
- AFG02 BAČOVÁ, Barbara - KNEZL, Vladimír - VICZENCZOVÁ, Csilla - PAVELKA, Stanislav - SOUKUP, Tomáš - VAN ROYEN, Jacques - TRIBULOVÁ, Narcisa. Hyperthyroid rats benefit from red palm oil diet due to suppression of their propensity to malignant arrhythmias. In European Journal of Heart Failure Supplements, 2012, vol. 11, suppl. 1, p. P2170. ISSN 1567-4215. VEGA 2/0046/12, GACR 304/08/025, APVV-SK-CZ-0027-11, AVOZ 50110509.
- AFG03 BAČOVÁ, Barbara - KNEZL, Vladimír - VICZENCZOVÁ, Csilla - PAVELKA, Stanislav - SOUKUP, Tomáš - VAN ROYEN, Jacques - TRIBULOVÁ, Narcisa. Beneficial effects of antioxidant-rich red palm oil intake in rats with altered thyroid status. In New Frontiers in Basic Cardiovascular Research 2012 : 10th Meeting of France - New EU Countries. From Basic Cardiovascular Research Towards Effective Therapeutics. Hradec Králové, Czech Republic, June 12-15, 2012. - Hradec Králové, 2012, p. 72-73. ISBN 978-80-86780-50-4. VEGA 2/0046/12, GACR 304/08/0256, AVOZ 50110509.
- AFG04 BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - GONCALVESOVÁ, Eva - VAN ROYEN, Jacques - SLEZÁK, Ján - TRIBULOVÁ, Narcisa. Myocardial connexin-43 is most likely implicated in anti-arrhythmic effects of red palm oil as demonstrated in spontaneously hypertensive rats. In 88. Fyziologické dny : Hradec Králové, 7. - 9. únor 2012. - Brno : Tribun, 2012, s. 83. ISBN 978-80-263-0210-0.
- AFG05 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - DOSENKO, Viktor - ZEMAN, Michal - TRIBULOVÁ, Narcisa. Connexin-43 is most likely implicated in cardioprotective effects of melatonin in SHR. In New Frontiers in Basic Cardiovascular Research 2012 : 10th Meeting of France - New EU Countries. From Basic Cardiovascular Research Towards Effective Therapeutics. Hradec Králové, Czech Republic, June 12-15, 2012. - Hradec Králové, 2012, p. 73-74. ISBN 978-80-86780-50-4. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG06 FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - WEISMANN, Peter - OKRUHLICOVÁ, Ludmila. Vplyv podávania omega-3 mastných kyselín na zmeny expresie Cx40 v aorte potkana vyvolané lipopolysacharidom. In Čtyřicet let Komise experimentální kardiologie: Odkud jsme vyšli a kam směřujeme : 40. pracovní konference Komise experimentální kardiologie při České a slovenské fyziologické společnosti ČLS JEP. Vranovská Ves, 17.-19. 10. 2012. - Brno : Fyziologický ústav, Lékařská fakulta, Masarykova universita, 2012, s.

13. ISBN 1801-6103. VEGA 2/0108/10.
- AFG07 FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - WEISMANN, Peter - OKRUHLICOVÁ, Ľudmila. Omega-3 fatty acids diet affect CX40 expression in rat aorta during inflammation. In Joint FEPS & Spanish physiological society scientific congress 2012 : Santiago de Compostela (Spain), September 8 - 11, 2012. Congres venue: School of Medicine. - Santiago de Compostela : School of Medicine, 2012, p. Poster 59. VEGA-2/0108/10.
- AFG08 FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - WEISMANN, Peter - OKRUHLICOVÁ, Ľudmila. The effect of omega-3 fatty acids on expression of connexin40 in aorta of Wistar and hereditary hypertriglyceridemic rats during inflammation. In New Frontiers in Basic Cardiovascular Research 2012 : 10th Meeting of France - New EU Countries. From Basic Cardiovascular Research Towards Effective Therapeutics. Hradec Králové, Czech Republic, June 12-15, 2012. - Hradec Králové, 2012, p. 58-59. ISBN 978-80-86780-50-4. VEGA 2/0108/10.
- AFG09 FRIMMEL, Karel - OKRUHLICOVÁ, Ľudmila - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BRNOLIAKOVÁ, Zuzana - BERNÁTOVÁ, Iveta. Expresia konexínu-40 v aorte Wistar a hereditárne hypertriglyceridemických potkanov v podmienkach zápalu. In 88. Fyziologické dny : Hradec Králové, 7. - 9. únor 2012, s. 33. ISBN 978-80-263-0210-0. VEGA 2/0108/10.
- AFG10 HORÁKOVÁ, Ľubica - ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - BLÁŠKOVÍČ, Dušan - MILÁČKOVÁ, Ivana - RATKOVSKÁ, L. - VEVERKA, Miroslav. Effect of quercetin and its derivatives on peroxynitrite injured sarco/endoplasmic Ca²⁺ -ATPase as a possible therapeutic tool. In 6th European Congress of Pharmacology, EPHAR 2012 : final programme. July 17-20, Granada, Spain. - Granada : [Spanish Society of Pharmacology], 2012, p. P560. ITMS 26240220040, VEGA 2/0038/11.
- AFG11 KNEZL, Vladimír - BAČOVÁ, Barbara - VICZENCZOVÁ, Csilla - BOHUNOVÁ, Karla - PAVELKA, Stanislav - SOUKUP, Tomáš - VAN ROYEN, Jacques - TRIBULOVÁ, Narcis. Intake of red palm oil affects heart function and ventricular fibrillation threshold of rats with altered thyroid status. In 88. Fyziologické dny : Hradec Králové, 7. - 9. únor 2012. - Brno : Tribun, 2012, s. 98. ISBN 978-80-263-0210-0.
- AFG12 MÁJEKOVÁ, Magdaléna - KOVÁČIKOVÁ, Lucia - ŠTOLC, Svorad - MÁJEK, Pavol. The use of advanced statistical methods in the study of pyridoindole compounds with neuroprotective effects. In EuroQSAR : Knowledge Enabled Ligand Design. August 26-30, 2012, Vienna, Austria. Abstract Book [elektronický zdroj]. - Vienna, 2012, p. 195. VEGA 2/0030/11. Názov z USB kľúča.
- AFG13 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. H1 versus H4 anti-histamines in human neutrophil oxidative burst. In 41st Annual Meeting of the EHRS, held jointly with COST Action BM0806. Belfast, May 2-5, 2012 : programme and Abstract Book. - Belfast : Queen's University Belfast, 2012, p. 55-56. VEGA 2/0003/07, APVV 0315-07, APVV 0052-10, COST BM0806.
- AFG14 OKRUHLICOVÁ, Ľudmila - KNEZL, Vladimír - NAVAROVÁ, Jana - SOTNÍKOVÁ, Ružena - BERNÁTOVÁ, Iveta - FRIMMEL, Karel - SLEZÁK, Ján. Inflammation-induced structural alterations of endothelium contribute to increased susceptibility of the heart to ischemia/reperfusion injury. In Joint FEPS & Spanish physiological society scientific congress 2012 : Santiago de Compostela (Spain), September 8 - 11, 2012. Congres venue: School of Medicine. - Santiago de Compostela : School of Medicine, 2012, p. Poster 208. VEGA 2/0108/10.
- AFG15 OKRUHLICOVÁ, Ľudmila - KNEZL, Vladimír - NAVAROVÁ, Jana -

- SOTNÍKOVÁ, Ružena - MOCSONOKYOVÁ, Viera - FRIMMEL, Karel - SLEZÁK, Ján. Zápalové zmeny integrity cievneho endotelu zvyšujú predispozíciu srdca k ischemicko/reperfúznemu poškodeniu. In 88. Fyziologické dny : Hradec Králové, 7. - 9. únor 2012. - Brno : Tribun, 2012, s. 111. ISBN 978-80-263-0210-0. VEGA 2/0108/10.
- AFG16 PEREČKO, Tomáš - BROWN, V. - COMER, D. - THURMOND, R. - DIB, K. - ENNIS, M. The histamine 4 receptor blunts neutrophil degranulation by preventing beta 2 integrin-dependent signalling. In 41st Annual Meeting of the EHRS, held jointly with COST Action BM0806. Belfast, May 2-5, 2012 : programme and Abstract Book. - Belfast : Queen's University Belfast, 2012, p. 41-42. COST Action BM0806.
- AFG17 RAČKOVÁ, Lucia - ERGIN, Volkan - BALI, E. Burcu - MENEVSE, Adnan - KARASU, Çimen. Immunomodulation and cytoprotection of brain microglia by pomegranate seed oil. In ECOPRAM 2012, Istanbul, Turkey, 29-31 May 2012 : 3rd European Congress on Preventive, Regenerative and Anti-Aging Medicine. Abstract CD [elektronický zdroj]. - Istanbul, 2012, p. 205. VEGA 2/0031/12, TUBITAK-SAS 1085239, KOSGEB 2011/05. Názov vytlačený z CD.
- AFG18 RADOŠINSKÁ, Jana - KNEZL, Vladimír - SLEZÁK, Ján - GONCALVESOVÁ, Eva - URBAN, Ľubomír - HATALA, Róbert - TRIBULOVÁ, Narcis. Down-regulation of electrical coupling protein, connexin43, due to ventricular fibrillation likely contributes to failure of sinus rhythm restoration in aged rat hearts. In European Journal of Heart Failure Supplements, 2012, vol. 11, suppl. 1, p. P816. ISSN 1567-4215. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG19 RADOŠINSKÁ, Jana - KNEZL, Vladimír - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Implication of electrical coupling protein, connexin-43, in termination of ventricular fibrillation and sinus rhythm restoration demonstrated in isolated perfused rat heart. In 75th Anniversary of Albert Szent-Gyorgyi's Nobel Prize Award : final programme. 1937-2012. Szeged 22-25 March, 2012, p. 125-126.
- AFG20 RADOŠINSKÁ, Jana - KNEZL, Vladimír - SLEZÁK, Ján - URBAN, L. - HATALA, Róbert - TRIBULOVÁ, Narcis. Ventricular fibrillation down-regulates cell-to-cell coupling protein connexin-43 while sudden increase of its un-phosphorylated form is likely involved in cardioversion demonstrated in perfused rat heart. In Intervenční a akutní kardiologie, 2012, roč. 11, suppl. A, p. A27. ISSN 1213-807X.
- AFG21 RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - DOSENKO, Viktor - BARANČÍK, Miroslav - NAVAROVÁ, Jana - TRIBULOVÁ, Narcis. Benefit of omega-3 fatty acids supplementation demonstrated in early stage of diabetes. In Indian Journal of Hypertension, november 2012, p. 57. VEGA 2/0049/09, APVV-SK-UA-0022-09.
- AFG22 RADOŠINSKÁ, Jana - KNEZL, Vladimír - SLEZÁK, Ján - TRIBULOVÁ, Narcisa. Down-regulation of electrical coupling protein, connexin-43, due to ventricular fibrillation hampers sinus rhythm restoration in perfused rat heart. In New Frontiers in Basic Cardiovascular Research 2012 : 10th Meeting of France - New EU Countries. From Basic Cardiovascular Research Towards Effective Therapeutics. Hradec Králové, Czech Republic, June 12-15, 2012. - Hradec Králové, 2012, p. 30. ISBN 978-80-86780-50-4. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG23 RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - KNEZL, Vladimír - BEŇOVÁ, Tamara - SOUKUP, Tomáš - SLEZÁK, Ján - GONCALVESOVÁ, E. - TRIBULOVÁ, Narcis. Implication of connexin-43 in cellular mechanisms of cardioprotective effects of omega-3 fatty acids demonstrated in young and old SHR. In 88. Fyziologické dny : Hradec Králové, 7. - 9. únor 2012. - Brno : Tribun, 2012, s. 66. ISBN 978-80-263-0210-0.
- AFG24 SOTNÍKOVÁ, Ružena - PÚZSEROVÁ, Angelika - NOSÁLOVÁ, Viera -

- NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta. Detrimental effect of crowding stress on vascular functional integrity. Interaction with ischemia/reperfusion. In Joint FEPS & Spanish physiological society scientific congress 2012 : Santiago de Compostela (Spain), September 8 - 11, 2012. Congres venue: School of Medicine. - Santiago de Compostela : School of Medicine, 2012, Poster 207. APVV-0523-10, VEGA 2/0084/10.
- AFG25 ŠTEFEK, Milan - MILÁČKOVÁ, Ivana - KOVÁČIKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - VEVERKA, Miroslav - VEVERKOVÁ, E. - ŠVAJDLENKA, Emil - GALLOVIČ, J. Semi-synthetic derivates of quercetin as antioxidants and aldose reductase inhibitors in prevention of diabetic complications: preclinical study in vitro. In 6th European Congress of Pharmacology, EPHAR 2012 : final programme. July 17-20, Granada, Spain. - Granada : [Spanish Society of Pharmacology], 2012, p. P039. ITMS 26240220040.
- AFG26 ŠTEFEK, Milan - MILÁČKOVÁ, Ivana - KOVÁČIKOVÁ, Lucia - KARASU, Çimen. Flavonoids as potential multifactorial anticataract agents. In ECOPRAM 2012, Istanbul, Turkey, 29-31 May 2012 : 3rd European Congress on Preventive, Regenerative and Anti-Aging Medicine. Abstract CD [elektronický zdroj]. - Istanbul, 2012, p. 62. ITMS 26240220040.
- AFG27 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - SLEZÁK, Ján. Implication of myocardial connexin-43 and PKC signalling in antiarrhythmic effects of omega-3 fatty acids demonstrated in spontaneously hypertensive rats. In 75th Anniversary of Albert Szent-Gyorgyi's Nobel Prize Award : final programme. 1937-2012. Szeged 22-25 March, 2012, p. 127 -128.
- AFG28 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - KNEZL, Vladimír - GONCALVESOVÁ, Eva - URBAN, Ľubomír - HATALA, Róbert - SLEZÁK, Ján. Aged hypertensive rats benefit from omega-3 fatty acids intake due to up-regulation of cell-to-cell coupling protein, connexin-43 that was associated with suppression of malignant arrhythmias. In European Journal of Heart Failure Supplements, 2012, vol. 11, suppl. 1, p. P241. ISSN 1567-4215. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG29 TRIBULOVÁ, Narcisa - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - SLEZÁK, Ján. Cellular mechanisms involved in antiarrhythmic effects of omega-3 fatty acids in spontaneously hypertensive rats. In New Frontiers in Basic Cardiovascular Research 2012 : 10th Meeting of France - New EU Countries. From Basic Cardiovascular Research Towards Effective Therapeutics. Hradec Králové, Czech Republic, June 12-15, 2012. - Hradec Králové, 2012, p. 71. ISBN 978-80-86780-50-4. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG30 VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - KNEZL, Vladimír - DOSENKO, Viktor - BEŇOVÁ, Tamara - VAN ROYEN, Jacques - TRIBULOVÁ, Narcisa. Antioxidant reach red palm oil can enhance cell-to-cell communication in spontaneously hypertensive rats. In European Journal of Heart Failure Supplements, 2012, vol. 11, suppl. 1, p. P974. ISSN 1567-4215. VEGA 2/0046/12, APVV-SK-CZ-0027-11.
- AFG31 VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - BEŇOVÁ, Tamara - KNEZL, Vladimír - DOSENKO, Viktor - VAN ROYEN, Jacques - SLEZÁK, Ján - TRIBULOVÁ, Narcis. Antiarrhythmic and cardioprotective effects of red palm oil demonstrated in spontaneous hypertensive rats. In Conference and advanced research workshop "Sudden cardiac death & cardioprotection" : programme and abstract book. 6-9 September 2012, Timisoara. - Timisoara, 2012, p. 99. ISBN 978-606-8054-80-3.

AFHA Abstrakty príspevkov z medzinárodných vedeckých konferenciách poriadaných v SR

- AFHA01 BAČIAK, Ladislav - JURÁNEK, Ivo - LIPTAJ, Tibor - GÁSPÁROVÁ, Zdenka. The quest for biomarkers of brain degeneration: another in vivo NMR study. In 2nd EAST NMR Young Investigators Meeting : Bratislava, Slovakia, May 16-18, 2012. - [Bratislava], 2012, p. Poster 2. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHA02 BAČOVÁ, Barbara - KNEZL, Vladimír - VICZENCZOVÁ, Csilla - PAVELKA, Stanislav - SOUKUP, Tomáš - VAN ROYEN, Jacques - TRIBULOVÁ, Narcis. Supplementation of red palm oil affects heart function and ventricular fibrillation threshold of rats with altered thyroid status. In Cardiology Letters, 2012, vol. 21, suppl. 1, p. 8S - 9S. ISSN 1336-2429. VEGA 2/0046/12, GACR 304/08/0256, AVOZ 50110509.
- AFHA03 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Effect of thiol compounds on oxidative degradation of high-molar-mass hyaluronan in vitro. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 25-26. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 25-26. ISSN 1337-6853. VEGA 2/0011/11 VEGA 2/0149/12.
- AFHA04 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Hyaluronan as an integral component of synovial fluid, its oxidative degradation in vitro and protective effect of thiol-containing compounds. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2012, tom. 67, no. 1, p. 25-26. ISSN 1337-7817. VEGA 2/0011/11, VEGA 2/0149/12.
- AFHA05 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS, Ladislav. Protection of high-molar-mass hyaluronan degradation by bucillamine and its disulfide derivative. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 24. ISBN 978-80-8143-020-6. VEGA 2/0011/11, VEGA 2/0149/12, APVV 0351-10.
- AFHA06 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - DOSENKO, Viktor - NAVAROVÁ, Jana - ZEMAN, M. - TRIBULOVÁ, Narcis. Spontaneously hypertensive rat benefit from melatonin treatment due to protection from malignant arrhythmias. In Cardiology Letters, 2012, vol. 21, no. 3, p.263. ISSN 1338-3655.
- AFHA07 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - DOSENKO, Viktor - NAVAROVÁ, Jana - ZEMAN, Michal - TRIBULOVÁ, Narcis. Melatonin up-regulates myocardial connexin-43 and increases threshold for malignant arrhythmia in spontaneously hypertensive rats. In Cardiology Letters, 2012, vol. 21, suppl. 1, p. 59S. ISSN 1336-2429. VEGA 2/0046/12, SK-CZ-0027-11.
- AFHA08 BEŇOVÁ, Tamara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BAČOVÁ, Barbara - KNEZL, Vladimír - DOSENKO, Viktor - ZEMAN, Michal - TRIBULOVÁ, Narcis. The cardioprotective effects of melatonin on SHR likely rely on the role of Connexin-43. In Cardiology Letters, 2012, vol. 21, suppl., p. 10S-11S. ISSN 1336-2429. VEGA 2/0046/12, SK-CZ-0027-11.
- AFHA09 BEZEK, Štefan - KYSELOVÁ, Zuzana - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana. Long-term follow-up treatment of rats with experimental hypercholesterolemia: efficacy and safety. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced

- toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 27. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 27. ISSN 1337-6853. VEGA 2/0011/11, VEGA 2/0081/11, VEGA 2/0084/11.
- AFHA10 BLÁŠKOVIC, Dušan - DRŽÍK, Filip - VISKUPIČOVÁ, Jana - VEVERKA, Miroslav - HORÁKOVÁ, Ľubica. Effects of novel quercetin derivatives on sarco/endoplasmic reticulum Ca^{2+} -ATPase. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 28-29. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 28-29. ISSN 1337-6853. ITMS 26240220040, VEGA 2/0038/11.
- AFHA11 BROSKOVÁ, Zuzana - SOTNÍKOVÁ, Ružena - NEDELČEVOVÁ, Jana - BAGI, Z. Effect of novel stobadine derivatives on the diameter of isolated rat arteries. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 29. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 29. ISSN 1337-6853. APVV-51-05905.
- AFHA12 BRUCKNEROVÁ, Ingrid - MACH, Mojmir - DUBOVICKÝ, Michal - UJHÁZY, Eduard. Total antioxidant status in twins. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 29. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 29. ISSN 1337-6853. VEGA 2/0081/11.
- AFHA13 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Polyphenol derivatives inhibit human neutrophil activity by suppressing oxidative burst. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 31. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 31. ISSN 1337-6853. VEGA 2/0003/10, APVV-0052-10, APVV-0315-07.
- AFHA14 DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - HARMATHA, Juraj - ŠMIDRKAL, Jan - JANČINOVÁ, Viera. Účinok syntetických derivátov prírodných polyfenolov na aktivitu ľudských neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 33. ISBN 978-80-8143-020-6. VEGA 2/0003/10, APVV-0052-10, APVV-0315-07.
- AFHA15 DRÁFI, František - SÝKORA, T. - KUNCÍROVÁ, Viera - PONIŠT, Silvester - MIHALOVÁ, Danica - BAUEROVÁ, Katarína. Hyperbilirubinaemia decreases clinical and biochemical markers in adjuvant-induced arthritis. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 32. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of

- Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 32. ISSN 1337-6853. VEGA 2/0045/11.
- AFHA16 DUBOVICKÝ, Michal - JEŽOVÁ, Daniela - BRNOLIAKOVÁ, Zuzana - RAČKOVÁ, Lucia - MACH, Mojmír - BEZEK, Štefan - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - UJHÁZY, Eduard. Effect of prenatal venlafaxine treatment on early postnatal development of rats: neuroendocrine and biochemical studies. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological courses. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 32. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 32. ISSN 1337-6853. VEGA 2/0084/11, VEGA 2/0081/11, VEGA 2/0031/12.
- AFHA17 GÁSPÁROVÁ, Zdenka - JANEGA, Pavol - STARÁ, Veronika - UJHÁZY, Eduard. Neurodegeneration induced by trimethyltin in male Wistar rat hippocampus: electrophysiological and morphological aspects. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 38. ISBN 978-80-8143-020-6. VEGA 2/0048/11, VEGA 2/0081/11.
- AFHA18 HORVÁTHOVÁ, Eva - KOZICS, Katarína - SRANČÍKOVÁ, Annamária - HUNÁKOVÁ, Ľubica - GÁLOVÁ, E. - ŠEVČOVIČOVÁ, Andrea - NAVAROVÁ, Jana - SLAMENOVÁ, Darina. Protective effects of borneol administration against ros-induced DNA damage in primary rat hepatocytes. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological courses. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 35. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 35. ISSN 1337-6853.
- AFHA19 JANČINOVÁ, Viera - PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - SVITEKOVÁ, Klára. Neutrophils as potential targets for pharmacological intervention. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological courses. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 38. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 38. ISSN 1337-6853. APVV-0315-07, APVV-0052-10, VEGA 2/0003/10.
- AFHA20 JANČINOVÁ, Viera - DRÁBIKOVÁ, Katarína - PEREČKO, Tomáš - NOSÁL, Radomír - SVITEKOVÁ, Klára. Farmakologická inhibícia prozápalovej aktivity neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 44. ISBN 978-80-8143-020-6. VEGA 2/0003/10, APVV-0052-10, APVV-0315-07.
- AFHA21 JURÁNEK, Ivo. Biological paradoxes of free radicals: is it possible to treat oxidative stress by exogenous antioxidants? In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological courses. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 41. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 41. ISSN 1337-6853. VEGA 2/0011/11, VEGA 2/0048/11, VEGA 2/0149/12.
- AFHA22 JURÁNEK, Ivo. Biologické paradoxy voľno-radikálových procesov: je možné ovplyvniť oxidačný stres exogénnymi antioxidantami? In 62. Farmakologické dni :

- program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 48. ISBN 978-80-8143-020-6. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHA23 KUCHARSKÁ, Jarmila - ULIČNÁ, Oľga - BAUEROVÁ, Katarína - PONIŠT, Silvester - KUNCÍROVÁ, Viera - JANEGA, Pavol - ZAGRAPAN, B. - KRISTEK, František - VANČOVÁ, Olga - GVOZDJÁKOVÁ, Anna - BADA, V. Čo ešte nevieme o statínoch? Účinky atorvastatínu pri experimentálnej hypercholesterolémii. In Cardiology Letters, 2012, vol. 21, suppl., p. 20S. ISSN 1336-2429. VEGA 1/0328/10, VEGA 2/0045/11, ITMS 26240120030.
- AFHA24 KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - NOSÁL, Radomír - HARMATHA, Juraj - BAUEROVÁ, Katarína. Anti-arthritic effect of combination therapy of methotrexate and N-feruloylserotonin in experimental arthritis. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 47. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 47. ISSN 1337-6853. VEGA 2/0045/11, APVV-0052-10.
- AFHA25 MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - HARMATHA, Juraj - SVITEKOVÁ, Klára - NOSÁL, Radomír. Effect of the natural antioxidant pinosylvín on human neutrophils after TNF-alpha stimulation in vitro. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 49. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 49. ISSN 1337-6853. VEGA 2/0003/10.
- AFHA26 MIHALOVÁ, Danica - BAUEROVÁ, Katarína - DRÁFI, František - KUNCÍROVÁ, Viera - PONIŠT, Silvester - FEDOROVÁ, Tatiana - HARMATHA, Juraj - NOSÁL, Radomír. Hodnotenie látok s antioxidačnými vlastnosťami a antireumatika - metotrexátu študovaná na modeli adjuvantnej artritídy. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 64. ISBN 978-80-8143-020-6. VEGA 2/0045/11, APVV-0315-07, APVV-0052-10, SAS-RAMS 2010-2012.
- AFHA27 MILÁČKOVÁ, Ivana - PRNOVÁ, Marta - KOVÁČIKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - VEVERKA, Miroslav - ŠTEFEK, Milan. 2-chloro-1,4-naftochinónový derivát kvercetínu ako potencionálne liečivo diabetických komplikácií: predklinické testy in vitro. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 66. ISBN 978-80-8143-020-6. ITMS 26240220040.
- AFHA28 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PEREČKO, Tomáš - LOJEK, Antonín - ČÍŽ, Milan - KRÁLOVÁ, Jana. Porovnanie účinku H1 a H4 antihistaminík na oxidatívne vzplanutie neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 74. ISBN 978-80-8143-020-6. COST Action BM0806, VEGA 2/0003/10, APVV-052-10, APVV-0315-07.
- AFHA29 OKRUHLICOVÁ, Ľudmila - KNEZL, Vladimír - NAVAROVÁ, Jana - SOTNÍKOVÁ, Ružena - BERNÁTOVÁ, Iveta - FRIMMEL, Karel - SLEZÁK, Ján. Structural alterations of endothelium induced by bacterial insult contribute to increased susceptibility of the heart to ischemia/reperfusion injury. In Cardiology Letters, 2012, vol. 21, suppl., p. 23S. ISSN 1336-2429. VEGA 2/0108/10.
- AFHA30 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - SVITEKOVÁ, Klára - NOSÁL,

- Radomír. Are atypical isoforms of PKC involved in respiratory burst of human neutrophils? In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 62. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 62. ISSN 1337-6853. VEGA 2/0003/10.
- AFHA31 PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. The role of caspase-3 in stilbene derivatives induced apoptosis of human neutrophils in vitro. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 63. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 63. ISSN 1337-6853. APVV-0052-10, APVV-0315-0, VEGA 2/0003/10.
- AFHA32 PEREČKO, Tomáš - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj - JANČINOVÁ, Viera. Deriváty stilbénu indukujú apoptózu ľudských neutrofilov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 77. ISBN 978-80-8143-020-6. VEGA 2/0003/10, APVV-0315-07, APVV-0052-10.
- AFHA33 PLACHÁ, Kateřina - BAČIAK, Ladislav - JURÁNEK, Ivo. Neonatal hypoxic-ischemic encephalopathy: current situation in treatment and management. In Folia Medica Cassoviensia : odborný časopis pre lekárske, farmaceutické a biologické vedy, 2012, tomus 67, no. 1, p. 161-162. ISSN 1337-7817.
- AFHA34 PLACHÁ, Kateřina - BAČIAK, Ladislav - JURÁNEK, Ivo. Hypoxic-ischaemic neonatal brain damage and its consequences. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 63-64. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 63-64. ISSN 1337-6853. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHA35 PLACHÁ, Kateřina - BAČIAK, Ladislav - JURÁNEK, Ivo. Hypoxicko-ischemické poškodenie neonatálneho mozgu: štúdium etiopatogenetických mechanizmov a možnosti ich ovplyvnenia. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 80. ISBN 978-80-8143-020-6. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHA36 PONIŠT, Silvester - DRÁFI, František - KUNCÍROVÁ, Viera - MIHALOVÁ, Danica - RAČKOVÁ, Lucia - ONDREJIČKOVÁ, Oľga - TRUNOVÁ, Oľga - FEDOROVA, Tatiana - BAUEROVÁ, Katarína. Terapeutický efekt karnozínu v experimentálnej artritíde a jeho protektívny účinok na primárnu bunkovú kultúru chondrocytov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 81. ISBN 978-80-8143-020-6. VEGA 2/0045/11, SAS-RAMS 2010-2012.
- AFHA37 PRNOVÁ, Marta - MILÁČKOVÁ, Ivana - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Inhibitory aldózareduktázy v prevencii diabetických komplikácií: predklinické štúdium derivátov kyseliny 1-indolactovej in vitro. In XXII. Diabetologické dni : program a súhrny prezentácií. 30. mája - 1. júna 2012, Košice. - Košice : Lagarto, 2012, s. 31. ISBN 978-80-970999-4-7. VEGA 2/0067/11, VEGA 2/0030/11.
- AFHA38 RAČKOVÁ, Lucia - KUNIAKOVÁ, M. - DANIŠOVIČ, Ľuboš - NOSÁL, Radomír

- BEZEK, Štefan - BLAŠKO, Milan. Hexahydropyridoindole derivatives in prevention of oxidative stress-induced injury of microglia cells. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 66. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 66. ISSN 1337-6853. VEGA 2/0031/12, VEGA 2/0045/11, VEGA 2/0003/10, APVV-0052-10, ITMS 26240220005.
- AFHA39 RAČKOVÁ, Lucia - DRŽÍK, Filip - VEVERKA, Miroslav - BEZEK, Štefan. Novel derivatives of quercetin as prospective agents against oxidative damage in pancreatic beta cells. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 65-66. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 65-66. ISSN 1337-6853. ITMS 26240220040, ITMS 26240120031.
- AFHA40 RADOŠINSKÁ, Jana - KNEZL, Vladimír - SLEZÁK, Ján - URBAN, Ľubomír - TRIBULOVÁ, Narcis. Impairment of myocardial connexin-43-mediated intercellular electrical coupling due to ventricular fibrillation likely affects sinus rhythm restoration. In Cardiology Letters, 2012, vol. 21, suppl., p. 44S-45S. ISSN 1336-2429. VEGA 2/0049/09, APVV SK-UA-0022-09.
- AFHA41 SEDLÁČKOVÁ, Natália - UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - KOVAČOVSKÝ, Pavel - MACH, Mojmir. Biochemical indicators of hypoxia/ischemia in fetal and maternal organism. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 68. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 68. ISSN 1337-6853. VEGA 2/0081/11, VEGA 2/0107/12.
- AFHA42 SOTNÍKOVÁ, Ružena - OKRUHLICOVÁ, Ľudmila - PIVÁČKOVÁ, L. - FIALOVÁ, Silvia - NAVAROVÁ, Jana - VLKOVIČOVÁ, Jana - KŘENEK, Peter. Vascular inflammatory changes induced by diabetes - effect of rosmarinic acid. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological course. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 70. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 70. ISSN 1337-6853. ITMS 26240220040.
- AFHA43 SOTNÍKOVÁ, Ružena - OKRUHLICOVÁ, Ľudmila - PIVÁČKOVÁ, L. - FIALOVÁ, Silvia - NAVAROVÁ, Jana - VLKOVIČOVÁ, Jana - KŘENEK, Peter. Kyselina rozmarínová zabraňuje cievnej dysfunkcii vyvolanej experimentálnym diabetom u potkanov. In 62. Farmakologické dni : program a zborník abstraktov. Košice, 25. - 27. júna 2012. - Košice : Equilibra, 2012, s. 90. ISBN 978-80-8143-020-6. ITMS 26240220040, VEGA 2/0108/10, VEGA 1/0981/12.
- AFHA44 TRIBULOVÁ, Narcis - BENOVÁ, Tamara - RADOŠINSKÁ, Jana - KNEZL, Vladimír - VACHULOVÁ, A. - URBAN, L. - HATALA, R. - MANOACH, M. Cell-to-cell coupling protein, connexin-43, is involved in occurrence and persisting of atrial fibrillo-flutter in experimental conditions. In Cardiology Letters, 2012, vol. 21, no. 3, p. 277. ISSN 1338-3655. VEGA 2/0046/12, APVV-SK-CZ-0027-11.

- AFHA45 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - BEŇOVÁ, Tamara - KNEZL, Vladimír - GONCALVESOVÁ, Eva - SLEZÁK, Ján. Dietary omega-3 acid ethyl esters enhance omega-3 index, attenuate myocardial arrhythmogenic substrate and protect from malignant arrhythmias in a model of human essential hypertension. In Cardiology Letters, 2012, vol. 21, suppl. 1, 63S. ISSN 1336-2429. VEGA 2/0046/12.
- AFHA46 TRIBULOVÁ, Narcis - RADOŠINSKÁ, Jana - BAČOVÁ, Barbara - VICZENCZOVÁ, Csilla - KNEZL, Vladimír - BERNÁTOVÁ, Iveta - NAVAROVÁ, Jana - VAN ROYEN, Jacques. Cardioprotective effects of red palm oil diet in spontaneously hypertensive rats. In Cardiology Letters, 2012, vol. 21, suppl., p. 38S-39S. ISSN 1336-2429. VEGA 2/0049/09, VEGA 2/0084/10.
- AFHA47 TRIBULOVÁ, Narcisa - BAČOVÁ, Barbara - RADOŠINSKÁ, Jana - VICZENCZOVÁ, Csilla - BEŇOVÁ, Tamara - KNEZL, Vladimír - DOSENKO, Viktor - GONCALVESOVÁ, Eva - SLEZÁK, Ján - VAN ROOYEN, Jacques. Red palm oil offers cardioprotection via upregulation of myocardial connexin-43 and protein kinase C-epsilon signaling in rats suffering from essential hypertension. In Cardiology Letters, 2012, vol. 21, suppl. 1, p. 48S-49S. ISSN 1336-2429. VEGA 2/0049/09.
- AFHA48 UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - MACH, Mojmir. Teratology - past, present and future. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 74-75. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 74-75. ISSN 1337-6853. VEGA 2/0081/11, VEGA 2/0084/11.
- AFHA49 VISKUPIČOVÁ, Jana - PÍŠOVÁ, Petra - JANTOVÁ, Soňa. Cytotoxic properties of rutin fatty acid esters on cells. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 75-76. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 75-76. ISSN 1337-6853. VEGA 1/0191/12, APVV-0339-10.
- AFHA50 ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - HORÁKOVÁ, Ľubica. Posttranslational and conformational changes in peroxynitrite-oxidized serca - effect of EGB 761 and pycnogenol®. In TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts, p. 78. Interdisciplinary toxicology. - Bratislava : Slovak Toxicology Society SETOX : Institute of Experimental Pharmacology and Toxicology SAS, 2012, vol. 5, suppl. 1, p. 78. ISSN 1337-6853. ITMS 26240220040.

AFHB Abstrakty príspevkov z domácich konferencií

- AFHB01 BAČIAK, Ladislav - GÁSPÁROVÁ, Zdenka - JURÁNEK, Ivo. In vivo NMR spectroscopy and imaging: insights into current neurological studies. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHB02 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - JURÁNEK, Ivo - ŠOLTÉS,

- Ladislav. Free-radical-mediated degradation of high-molar-mass hyaluronan by Weissberger's oxidative system. In vitro testing of bucillamine and its disulfide derivative. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.
- AFHB03 BAŇASOVÁ, Mária - VALACHOVÁ, Katarína - RYCHLÝ, Jozef - JURÁNEK, Ivo - ŠOLTĚS, Ladislav. Testovanie bucilamínu a jeho oxidovaného metabolitu na protektívne účinky voči voľnoradikálovej degradácii hyalurónanu in vitro. In Interaktívna konferencia mladých vedcov 2012 : zborník abstraktov. - Banská Bystrica : Občianske združenie Preveda, 2012, s. 69. ISBN 978-80-970712-2-6. VEGA 2/0011/11, VEGA 2/0149/12.
- AFHB04 DRÁFI, František - BAUEROVÁ, Katarína - PONIŠT, Silvester - MIHALOVÁ, Danica - KUNCÍROVÁ, Viera - BOLDYREV, A. - NOSÁL, Radomír. Experimental treatment of the adjuvant-induced arthritis. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.
- AFHB05 DRÁFI, František - BAUEROVÁ, Katarína. Predklinické a klinické aspekty formulácie a použitia transdermálnych terapeutických systémov. In Česká a Slovenská farmacie : časopis České farmaceutické společnosti a Slovenské farmaceutické společnosti, 2011, roč. 60, č. 6, s. 305-306. ISSN 1210-7816.
- AFHB06 FRIMMEL, Karel - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana - BERNÁTOVÁ, Iveta - WEISMANN, Peter - OKRUHLICOVÁ, Ludmila. Účinok omega-3 mastných kyselín na expresiu konexínu 40 u Wistar a hereditárne hypertriglyceridemických potkanov počas zápalu. In Interaktívna konferencia mladých vedcov 2012 : zborník abstraktov. - Banská Bystrica : Občianske združenie Preveda, 2012, s. 20. ISBN 978-80-970712-2-6. VEGA 2/0108/10.
- AFHB07 KUNCÍROVÁ, Viera - PONIŠT, Silvester - DRÁFI, František - MIHALOVÁ, Danica - VOLPI, Nikola - BAUEROVÁ, Katarína. Evaluation of the effect of chondroitin sulfate on the induced arthritis in rats. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. VEGA 2/0045/11, CNR-SAV 2010-2012.
- AFHB08 MILÁČKOVÁ, Ivana - PRNOVÁ, Marta - KOVÁČIKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - VEVERKA, Miroslav - ŠTEFEK, Milan. 2-Chloro-1,4-naphthoquinone derivative of quercetin as antioxidant and aldose reductase inhibitor in prevention of diabetic complications: preclinical study in vitro. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.
- AFHB09 PLACHÁ, Kateřina - BAČIAK, Ladislav - JURÁNEK, Ivo. Hypoxic-ischemic cerebral insult in newborns. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag. VEGA 2/0048/11, VEGA 2/0149/12.
- AFHB10 PRNOVÁ, Marta - MILÁČKOVÁ, Ivana - MÁJEKOVÁ, Magdaléna - ŠTEFEK, Milan. Inhibitors of aldose reductase in prevention of diabetic complications: preclinical study of 1-indole acetic acid derivatives in vitro. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.
- AFHB11 SEDLÁČKOVÁ, Natália - UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - MACH, Mojmir. Glucose levels might serve as relevant indicator of hypoxia/ischemia in fetal organisms. In Miniconference of doctoral students : abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.
- AFHB12 SEDLÁČKOVÁ, Natália - UJHÁZY, Eduard - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - MACH, Mojmir. Biochemické zmeny po hypoxicko/ischemickom inzulte v modeli subchronickej hypoxie gravidných matiek potkanov. In Interaktívna konferencia mladých vedcov 2012 : zborník abstraktov. - Banská Bystrica : Občianske združenie Preveda, 2012, s. 39-

40. ISBN 978-80-970712-2-6. VEGA 2/0081/11, VEGA 2/0107/12.
- AFHB13 ŽIŽKOVÁ, Petronela - VISKUPIČOVÁ, Jana - HORÁKOVÁ, Ľubica.
Posttranslational and conformational changes in peroxynitrite-oxidized SERCA,
effect of Egb 761 and Pycnogenol®. In Miniconference of doctoral students :
abstract booklet. - Bratislava : IEPT SAS, 2012, p. non pag.

BAB Odborné monografie vydané v domácich vydavateľstvách

- BAB01 CORSINI, Emanuela - KANDÁROVÁ, Helena - SEDLÁK, Ján - PASTOREK,
Michal. Advances in toxicology : textbook for advanced toxicology course. Vol. 2.
Editor Mojmir Mach. Autors Emanuela Corsini, Helena Kandárová, Ján Sedlák,
Michal Pastorek. Bratislava : Slovenská toxikologická spoločnosť SETOX, 2012.
152 p. ISBN 978-80-969474-5-4.

DAI Dizertačné a habilitačné práce

- DAI01 BROSKOVÁ, Zuzana. Následky perinatálnej asfyxie modelovanej na novorodených
potkanoch a ich farmakologické ovplyvnenie pyridoindolovými derivátmi
stobadínom a SMe1EC2 : dizertačná práca. Školiteľ: Ivo Juránek, školiteľ-
špecialista: Vladimír Knezl, oponenti: Gabriela Nosáľová, Tatiana Stankovičová,
Narcisa Tribulová. Martin, 2012. 102 s. Jesseniova lekárska fakulta v Martine,
Univerzita Komenského, 18.12.2012, študijný odbor 7.3.2 farmakológia.
- DAI02 BROSKOVÁ, Zuzana. Následky perinatálnej asfyxie modelovanej na novorodených
potkanoch a ich farmakologické ovplyvnenie pyridoindolovými derivátmi
stobadínom a SMe1EC2 : autoreferát dizertačnej práce na získanie akademického
titulu philosophiae doktor v študijnom odbore 7.3.2 farmakológia. Martin, 2012. 23
s.
- DAI03 DRÁFI, František. Nové prístupy ku kombinovanej farmakoterapii reumatoidnej
artritídy hodnotené na zvieracom modeli : dizertačná práca. Školiteľ: Katarína
Bauerová, školiteľ-špec.: Ladislav Šoltés, oponenti: Svorad Štolc, Anna Strapková,
Ingrid Tumová. Martin, 2012. 163 s. Jesseniova lekárska fakulta v Martine,
Univerzita Komenského, 28. 8. 2012, vedný odbor 7.3.2 Farmakológia.
- DAI04 DRÁFI, František. Nové prístupy ku kombinovanej farmakoterapii reumatoidnej
artritídy hodnotené na zvieracom modeli : autoreferát dizertačnej práce na získanie
akademického titulu philosophiae doktor v študijnom odbore 7.3.2 Farmakológia.
Martin, 2012. 20 s.

FAI Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...)

- FAI01 TOXCON 2012. Toxicology at the crossroad : 17th Interdisciplinary toxicological
conference and Advanced toxicological cours. The High Tatras, Slovakia. Stará
Lesná - hotel Academia, August 27-31, 2012. Programme and abstracts. Editors Jana
Navarová, Helena Kandárová, Mojmir Mach.
- FAI02 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.
- FAI03 Miniconference of doctoral students : abstract booklet. Bratislava : IEPT SAS, 2012.
Nestr.

Ohlasy (citácie):

ABC Kapitoly vo vedeckých monografiách vydané v zahraničných vydavateľstvách

- ABC01 BOLTON, Thomas B. - GORDIENKO, Dmitri V. - PUCOVSKÝ, Vladimír - PARSONS, S. - POVSTYAN, O.V. - WRAY, Hirst. Calcium release events in excitation-contraction coupling in smooth muscle. In Role of the sarcoplasmic reticulum in smooth muscle : Novartis Foundation Symposium 246. - Chichester : Wiley, 2002, p. 154-173. ISBN 9780470844793 print.
- Citácie:
1. [1.1] FAN, J. Q. - ZHANG, X. P. - LU, Z. J. - GUO, F. F. - ZHANG, M. S. - WU, D. M. - LIU, Y. Effects and mechanisms of pH on the resting tone in rat isolated thoracic aorta rings. In ZHONGGUO YAOLIXUE TONGBAO(CHINESE PHARMACOLOGICAL BULLETIN). ISSN 1001-1978, 2011, vol. 27, no. 11, p. 1589-1592., WOS
2. [1.1] ZHAO, M. - YU, X.J. - ZHANG, H.L. - BI, Y. - HU, H. - ZANG, W.J. Effect of ischemia/hypoxia on mesenteric vasomotor function in spontaneously hypertensive rats and its possible mechanism. In Shengli Xuebao. ISSN 0371-0874, 2011, vol. 63, no. 6, p. 540-548., WOS
3. [1.2] ZHENG, X. - HU, Z. Effect and mechanisms of Shenmai injection on contractions of porcine coronary artery. In ZHONGGUO ZHONGYAO ZAZHI. ISSN 1001-5302, 2011, vol. 36, no. 21, p. 3023-3025, SCOPUS
- ABC02 KOGAN, Grigorij - ŠOLTÉS, Ladislav - STERN, Robert - SCHILLER, Jürgen - MENDICHI, Raniero. Hyaluronic acid: its function and degradation in vivo systems. In Bioactive natural products (Part N). - Amsterdam : Elsevier, 2008, p.789-882. ISBN 978-0-444-53180-3.
- Citácie:
1. [1.2] IANNITTI, T. LODI, D. - PALMIERI, B. Intra-articular injections for the treatment of osteoarthritis: Focus on the clinical use of hyaluronic acid. In DRUGS IN R AND D. ISSN 1174-5886, 2011, vol. 11, no. 1, p. 13-27, SCOPUS

ADCA Vedecké práce v zahraničných karentovaných časopisoch impaktovaných

- ADCA01 ALEXIOU, Polyxeni - NICOLAOU, Ioannis - ŠTEFEK, Milan - KRISTL, Albin - DEMOPOULOS, Vassilis J. Design and synthesis of N-(3,5-difluoro-4-hydroxyphenyl) benzenesulfonamides as aldose reductase inhibitors. In Bioorganic & medicinal chemistry, 2008, vol. 16, no. 7, p. 3926-3932. (2.662 - IF2007). (2008 - Current Contents). ISSN 0968-0896.
- Citácie:
1. [1.1] PATRA, J.C. - CHUA, B.H. Artificial Neural Network-based Drug Design for Diabetes Mellitus Using Flavonoids. In JOURNAL OF COMPUTATIONAL CHEMISTRY. ISSN 0192-8651, 2011, vol. 32, no. 4, p. 555-567., WOS
- ADCA02 AVIADO, D.M. - DŘÍMAL, Ján - WATANABE, T. - LISH, P.M. Cardiac effects of sodium selenite. In Cardiology, 1975, vol. 60, no. 2, p. 113-120. ISSN 0008-6312.
- Citácie:
1. [1.1] CHRISTOPHERSEN, O.A. - HAUG, A. Animal products, diseases and drugs: a plea for better integration between agricultural sciences, human nutrition and human pharmacology. In LIPIDS IN HEALTH AND DISEASE. ISSN 1476-511X, 2011, vol. 10., art.no. 16, WOS
- ADCA03 BALDUS, Stephan - RUDOLPH, Volker - ROISS, Mika - ITO, Wulf D. -

RUDOLPH, Tanja K. - EISERICH, Jason P. - SYDOW, Karsten - LAU, Denise - SZÖCS, Katalin - KLINKE, Anna - KUBALA, Lukas - BERGLUND, Lars - SCHREPFER, Sonja - DEUSE, Tobias - HADDAD, Munif - RISIUS, Tim - KLEMM, Hanno - REICHENSPURNER, Hermann C. - MEINERTZ, Thomas - HEITZER, Thomas. Heparins increase endothelial nitric oxide bioavailability by liberating vessel-immobilized myeloperoxidase. In *Circulation : journal of The American Heart Association*, 2006, vol. 113, p. 1871-1878. (11.632 - IF2005). (2006 - Current Contents). ISSN 0009-7322.

Citácie:

1. [1.1] CHEN, Y.L. - ZHANG, F. - DONG, L.L. - SHU, X.H. *Response: Myeloperoxidase as a Biomarker in Acute Coronary Syndrome: A Trap or a Treasure*. In *ARCHIVES OF MEDICAL RESEARCH*. ISSN 0188-4409, 2011, vol. 42, no. 7, p. 642-643., WOS
2. [1.1] DAVIES, M.J. *Myeloperoxidase-derived oxidation: mechanisms of biological damage and its prevention*. In *JOURNAL OF CLINICAL BIOCHEMISTRY AND NUTRITION*. ISSN 0912-0009, 2011, vol. 48, no. 1, p. 8-19., WOS
3. [1.1] DE POUYADE, G.D. - SERTEYN, D. *The role of activated neutrophils in the early stage of equine laminitis*. In *VETERINARY JOURNAL*. ISSN 1090-0233, 2011, vol. 189, no. 1, p. 27-33., WOS
4. [1.1] DING, F. - SONG, J.H. - JUNG, J.Y. - LOU, L.D. - WANG, M. - CHARLES, L. - WESTOVER, A. - SMITH, P.L. - PINO, C.J. - BUFFINGTON, D.A. - HUMES, H.D. *A Biomimetic Membrane Device That Modulates the Excessive Inflammatory Response to Sepsis*. In *PLOS ONE*. ISSN 1932-6203, 2011, vol. 6, no. 4., WOS
5. [1.1] LEE, R. *Myeloperoxidase as a Biomarker in Acute Coronary Syndrome: Beware of the Pitfalls*. In *ARCHIVES OF MEDICAL RESEARCH*. ISSN 0188-4409, 2011, vol. 42, no. 7, p. 641-641., WOS
6. [1.1] MEOTTI, F.C. - JAMESON, G.N.L. - TURNER, R. - HARWOOD, T. - STOCKWELL, S. - REES, M.D. - THOMAS, S.R. - KETTLE, A.J. *Urate as a Physiological Substrate for Myeloperoxidase IMPLICATIONS FOR HYPERURICEMIA AND INFLAMMATION*. In *JOURNAL OF BIOLOGICAL CHEMISTRY*. ISSN 0021-9258, 2011, vol. 286, no. 15, p. 12901-12911., WOS
7. [1.1] MIYAMOTO, S. - FUJITA, M. - INOKO, M. - OBA, M. - HOSOKAWA, R. - HARUNA, T. - IZUMI, T. - SAJI, Y. - NAKANE, E. - ABE, T. - UEYAMA, K. - NOHARA, R. *Effect on Treadmill Exercise Capacity, Myocardial Ischemia, and Left Ventricular Function as a Result of Repeated Whole-Body Periodic Acceleration With Heparin Pretreatment in Patients With Angina Pectoris and Mild Left Ventricular Dysfunction*. In *AMERICAN JOURNAL OF CARDIOLOGY*. ISSN 0002-9149, 2011, vol. 107, no. 2, p. 168-174., WOS
8. [1.1] PUNTONI, M. - SBRANA, F. - BIGAZZI, F. - MINICHILLI, F. - FERDEGHINI, E. - SAMPIETRO, T. *Myeloperoxidase modulation by LDL apheresis in Familial Hypercholesterolemia*. In *LIPIDS IN HEALTH AND DISEASE*. ISSN 1476-511X, 2011, vol. 10. Article Number: 185 DOI: 10.1186/1476-511X-10-185, WOS
9. [1.1] QIN, Y. - PRESCOTT, L.M. - DEITCH, E.A. - KAISER, V.L. *Heparin use in a rat hemorrhagic shock model induces biologic activity in mesenteric lymph separate from shock*. In *SHOCK*. ISSN 1073-2322, 2011, vol. 35, no. 4, p. 411-421., WOS
10. [1.1] STROBEL, N.A. - FASSETT, R.G. - MARSH, S.A. - COOMBES, J.S. *Oxidative stress biomarkers as predictors of cardiovascular disease*. In *INTERNATIONAL JOURNAL OF CARDIOLOGY*. ISSN 0167-5273, 2011, vol.

147, no. 2, p. 191-201., WOS

11. [1.1] SUGAMURA, K. - KEANEY, J.F. *Reactive oxygen species in cardiovascular disease. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 5, SI, p. 978-992., WOS*

12. [1.1] WIERSMA, J.J. - VERBERNE, H.J. - MEUWESE, M.C. - STROES, E.S.G. - VAN MIERT, J.N.I. - VAN ECK-SMIT, B.L.F. - TIJSSEN, J.G.P. - PIEK, J.J. - TRIP, M.D. *Myeloperoxidase is not associated with scintigraphic myocardial perfusion abnormalities in type 2 diabetic patients with mild stable anginal complaints. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2011, vol. 412, no. 1-2, p. 86-90., WOS*

13. [1.2] DOMINGUEZ-RODRIGUEZ, A. - ABREU-GONZALEZ, P. *Current role of myeloperoxidase in routine clinical practice. In EXPERT REVIEW OF CARDIOVASCULAR THERAPY. ISSN 1477-9072, 2011, vol. 9, no. 2, p. 223-230, SCOPUS*

14. [1.2] TODA, N. - TANABE, S. - NAKANISHI, S. *Nitric oxide-mediated coronary flow regulation in patients with coronary artery disease: Recent advances. In INTERNATIONAL JOURNAL OF ANGIOLOGY. ISSN 1061-1711, 2011, vol. 20, no. 3, p. 121-134, SCOPUS*

ADCA04 BALONOVÁ, Tatiana - ZELJENKOVÁ, Dagmar - ĎURIŠOVÁ, Mária - NOSÁL', Radomír - JAKUBOVSKÝ, Ján - LÍŠKA, Ján - ŠTOLC, Svorad. Reproductive toxicity studies with cis-(-)-2,3,4,4a,5,9b-hexahydro-2,8-dimethyl-1H-pyrido-[4,3-b]indole dipalmitate in rats. In *Arzneimittel-Forschung/Drug Research. Special section: Biotechnology in drug research, I, vol. 41, no. 1 (1991. (1991 - Current Contents). ISSN 0004-4172.*

Citácie:

1. [1.2] ASARE, G.A. - ADDO, P. - BUGYEI, K. - GYAN, B. - ADJEI, S. - OTU-NYARKO, L.S. - WIREDU, E.K. - NYARKO, A. *Acute toxicity studies of aqueous leaf extract of Phyllanthus niruri. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 206-210, SCOPUS*

2. [2.2] UJHAZY, E. - MACH, M. - NAVAROVA, J. - BRUCKNEROVA, I. - DUBOVICKY, M. *Safety assessment of the pyridoindole derivative SMe1EC2: Developmental neurotoxicity study in rats. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 1, p. 47-51, SCOPUS*

ADCA05 BASTIDE, Michele - OUK, T. - PLAISIER, F. - PÉTRAULT, O. - ŠTOLC, Svorad - BORDET, R. Neuroglial unit after cerebral ischemia: is the vascular wall a pharmacological target. In *Psychoneuroendocrinology, 2007, vol. 32, suppl. 1, p. S36-S39. (4.850 - IF2006). ISSN 0306-4530.*

Citácie:

1. [1.2] BROSKOVA, Z. - KNEZL, V. *Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974, SCOPUS*

ADCA06 BAUER, Viktor - REKALOV, Vladimír - JURÁNEK, Ivo - GERGEL', Dalibor - BOHOV, Pavol. Effect of illuminated nifedipine, a potent antioxidant, on intestinal and vascular smooth muscles. In *British journal of pharmacology, 1995, vol. 115, no. 6, p. 871-874. (1995 - Current Contents). ISSN 0007-1188.*

Citácie:

1. [1.1] HORINOUCI, Y. - TSUCHIYA, K. - TAOKA, C. - TAJIMA, S. - KIHARA, Y. - MATSUDA, Y. - SHISHIDO, K. - YOSHIDA, M. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. *Antioxidant Effects of Photodegradation Product of Nifedipine. In CHEMICAL & PHARMACEUTICAL BULLETIN. ISSN 0009-2363, 2011, vol. 59, no. 2, p. 208-*

- 214., WOS
2. [1.2] FUKUHARA, Y. - TSUCHIYA, K. - HORINOUCI, Y. - TAJIMA, S. - KIHARA, Y. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. *Protective effect of photodegradation product of nifedipine against tumor necrosis factor alpha-induced oxidative stress in human glomerular endothelial cells. In Journal of Medical Investigation. ISSN 1343-1420, 2011, vol. 58, no. 1-2, p. 118-126, SCOPUS*
- ADCA07 BAUER, Viktor - SOTNÍKOVÁ, Ružena - MACHOVÁ, Jana - MÁTYÁS, Štefan - PUCOVSKÝ, Vladimír - ŠTEFEK, Milan. Reactive oxygen species induced smooth muscle responses in the intestine, vessels and airways and the effect of antioxidants. In Life Sciences, 1999, vol. 65, nos. 18/19, p.1909-1917. (1.937 - IF1998). (1999 - Current Contents). ISSN 0024-3205.
- Citácie:
1. [1.2] BOCHEVA, G. - BOYADJIEVA, N. *Epigenetic regulation of fetal bone development and placental transfer of nutrients: Progress for osteoporosis. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 167-172, SCOPUS*
- ADCA08 BAUEROVÁ, Katarína - ŠOLTÉS, Ladislav - KÁLLAY, Zoltán - SCHMIDTOVÁ, Katarína. Determination of pentoxifylline in serum by high-performance thin-layer chromatography. In Journal of Pharmaceutical and Biomedical Analysis, 1991, vol. 9, no. 3, p. 247-250. ISSN 0731-7085.
- Citácie:
1. [1.1] ALARFAJ, N. - EL-TOHAMY, M. *New Validated Potentiometric Determination of Vasodilator Pentoxifylline in its Pharmaceutical Formulations and Biological Fluids. In JOURNAL OF THE CHINESE CHEMICAL SOCIETY. ISSN 0009-4536, 2011, vol. 58, no. 5, p. 637-644., WOS*
- ADCA09 BAUEROVÁ, Katarína - PAULOVICHOVÁ, Ema - MIHALOVÁ, Danica - KOMENDOVÁ, Denisa - PONIŠT, Silvester. Monitoring of pro-inflammatory cytokines in the development of adjuvant arthritis. In Chemické listy, 2007, roč. 101, č.14, s. s166-s167. (0.431 - IF2006). (2007 - Current Contents). ISSN 0009-2770.
- Citácie:
1. [3] PERECKO, T. - DRABIKOVA, K. - NOSAL, R. - HARMATHA, J. - JANCINOVA, V. *Pharmacological modulation of activated neutrophils by natural polyphenols. In Recent Research Developments in Pharmacology. Vol. 2. Trivandrum, Research Signpost 2011. P. 27-67. ISBN 978-81-308-0455-2*
- ADCA10 BAUEROVÁ, Katarína - MATUŠOVÁ, Desana - KASSAI, Zoltán. Chemical enhancers for transdermal drug transport. In European journal of drug metabolism and pharmacokinetics. - Geneva : Medicine et Hygiene, 2001, vol. 26, no. 1/2, p. 85-94. (0.488 - IF2000). (2001 - Current Contents). ISSN 0378-7966.
- Citácie:
1. [1.2] DRAGICEVIC-CURIC, N. - MILIC, J. - PRIMORAC, M. *Characteristics of chemical penetration enhancers for drugs in preparations for dermal/transdermal application | [Karakteristike hemijskih ubrzivača penetracije lekovitih supstanci u preparatima za dermalnu/transdermalnu primenu]. In ARHIV ZA FARMACIJU. ISSN 0004-1963, 2011, vol. 61, no. 1, p. 1-27, SCOPUS*
2. [1.2] VALECHA, V. - Mathur, P. - SYAN, N. - VERMA, S. *Various penetration enhancements techniques in transdermal drug delivery. In INTERNATIONAL JOURNAL OF PHARMACY AND TECHNOLOGY. ISSN 0975-766X, 2011, vol. 3, no. 2, p. 2373-2401, SCOPUS*
3. [3] SAROHA, K. - NANDA, S. - RANI, S. *Chemical penetration enhancers: a novel approach in transdermal drug delivery system. In INTERNATIONAL JOURNAL OF CURRENT PHARMACEUTICAL RESEARCH. ISSN 0975-7066.*

2011, vol 3, no. 4, p. 5-9

- ADCA11 BAUEROVÁ, Katarína - KASSAI, Zoltán - KOPRDA, Vasil' - HARANGOZÓ, Margita. Contribution to the penetration of radionuclides across the skin. Concentration dependence of strontium through the skin in vitro. In Journal of applied toxicology. - Chichester : John Wiley & sons, 2001, vol. 21, p. 241-243. (0.659 - IF2000). (2001 - Current Contents). ISSN 0260-437X.

Citácie:

1. [1.1] *LANSDOWN, A.B.G. Metal Ions Affecting the Skin and Eyes. In METAL IONS IN TOXICOLOGY: EFFECTS, INTERACTIONS, INTERDEPENDENCIES. Book Series: Metal Ions in Life Sciences, ISSN 1559-0836, 2011, vol. 8, p. 187-246., WOS*

- ADCA12 BEZÁKOVÁ, Lýdia - MIŠÍK, Vladimír - MÁLEKOVÁ, Ľubica - ŠVAJDLENKA, Emil - KOŠŤÁLOVÁ, Daniela. Lipxygenase inhibition and antioxidant properties of bisbenzylisoquinoline alkaloids isolated from Mahonia aquifolium. In Pharmazie, 1996, jahrg. 51, hft. 10, s. 758-761. (0.466 - IF1995). (1996 - Current Contents). ISSN 0031-7144.

Citácie:

1. [1.2] *SAKLANI, S. - CHANDRA, S. Berberis asiatica: Potential fruits as nutraceuticals. In INTERNATIONAL JOURNAL OF PHARMACY AND TECHNOLOGY. ISSN 0975 766X, 2011, vol. 3, no. 4, p. 1586-1604, SCOPUS*

- ADCA13 BEZEK, Štefan - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Nongenomic memory of foetal history in chronic diseases development. In Neuroendocrinology Letters, 2008, vol. 29, no. 5, p. 620-626. (1.443 - IF2007). ISSN 0172-780X.

Citácie:

1. [1.1] *AKBARIAN, S. - CHEUNG, I. - CONNOR, C. - JAKOVCEVSKI, M. - JIANG, Y. Posttranslational Histone Modifications and the Neurobiology of Psychosis. In BRAIN, BEHAVIOR AND EPIGENETICS. ISSN 2191-2262, 2011, p. 1-21., WOS*

2. [1.1] *ELABBAS, L.E. - FINNILA, M.A. - HERLIN, M. - STERN, N. - TROSSVIK, C. - BOWERS, W.J. - NAKAI, J. - TUUKKANEN, J. - HEIMEIER, R.A. - AKESSON, A. - HAKANSSON, H. Perinatal exposure to environmental contaminants detected in canadian arctic human populations changes bone geometry and biomechanical properties in rat offspring. In JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART A-CURRENT ISSUES. ISSN 1528-7394, 2011, vol. 74, no. 19, p. 1304-1318., WOS*

3. [1.1] *YANICOSTAS, C. - SOUSSI-YANICOSTAS, N. - EL-KHOURY, R. - BENIT, P. - RUSTIN, P. Developmental aspects of respiratory chain from fetus to infancy. In SEMINARS IN FETAL & NEONATAL MEDICINE. ISSN 1744-165X, 2011, vol. 16, no. 4, p. 175-180., WOS*

- ADCA14 BOBEK, Pavel - NOSÁLOVÁ, Viera - ČERNÁ, Silvia. Effect of pleuran (beta-glucan from Pleurotus ostreatus) in diet or drinkin fluid on colitis in rats. In Nahrung/Food. - Weinheim : Wiley-VCH, 2001, vol. 45, p. 360-363. (0.698 - IF2000). (2001 - Current Contents). ISSN 0027-769X.

Citácie:

1. [1.1] *BOONYANUPHAP, J. - HANSAWASDI, C. Spatial distribution of Beta glucan containing wild mushroom communities in subtropical dry forest, Thailand. In FUNGAL DIVERSITY. ISSN 1560-2745, 2011, vol. 46, no. 1, p. 29-42., WOS*

2. [1.1] *ISHII, P.L. - PRADO, C.K. - MAURO, M.D. - CARREIRA, C.M. - MANTOVANI, M.S. - RIBEIRO, L.R. - DICHI, J.B. - OLIVEIRA, R.J. Evaluation of Agaricus blazei in vivo for antigenotoxic, anticarcinogenic, phagocytic and*

- immunomodulatory activities. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2011, vol. 59, no. 3, p. 412-422., WOS*
3. [1.1] WANG, C.R. - NG, T.B. - LI, L. - FANG, J.C. - JIANG, Y. - WEN, T.Y. - QIAO, W.T. - LI, N. - LIU, F. Isolation of a polysaccharide with antiproliferative, hypoglycemic, antioxidant and HIV-1 reverse transcriptase inhibitory activities from the fruiting bodies of the abalone mushroom *Pleurotus abalonus*. In *JOURNAL OF PHARMACY AND PHARMACOLOGY. ISSN 0022-3573, 2011, vol. 63, no. 6, p. 825-832., WOS*
4. [1.2] GARCIA-LAFUENTE, A. - MORO, C. - VILLARES, A. - GUILLAMON, E. - ROSTAGNO, M.A. - D'ARRIGO, M. - MARTINEZ, J.A. Mushrooms as a source of anti-inflammatory agents. In *AMERICAN JOURNAL OF COMMUNITY PSYCHOLOGY. ISSN 0091-0562, 2011, vol. 48, no. 1-2, p. 125-141, SCOPUS*
5. [1.2] JEDINAK, A. - DUDHGAONKAR, S. - WU, Q.-L. - SIMON, J. - SLIVA, D. Anti-inflammatory activity of edible oyster mushroom is mediated through the inhibition of NF- κ B and AP-1 signaling. In *NUTRITION JOURNAL. ISSN 1475-2891, 2011, vol. 10, no. 1, art. no. 52, SCOPUS*
- ADCA15 BOLTON, Thomas B. - GORDIENKO, Dmitri V. - POVSTYAN, O.V. - HARHUN, Maksym I. - PUCOVSKÝ, Vladimír. Smooth muscle cells and interstitial cells of blood vessels. In *Cell calcium, 2004, vol. 35, p. 643-657. (2.781 - IF2003). (2004 - Current Contents). ISSN 0143-4160.*
- Citácie:
1. [1.1] CANTARERO, I. - LUESMA, M.J. - JUNQUERA, C. The primary cilium of telocytes in the vasculature: electron microscope imaging. In *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, 2011, vol. 15, no. 12, p. 2594-2600., WOS*
2. [1.1] RUSU, M.C. - POP, F. - HOSTIUC, S. - CURCA, G.C. - STREINU-CERCEL, A. Extrahepatic and Intrahepatic Human Portal Interstitial Cajal Cells. In *ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. ISSN 1932-8486, 2011, vol. 294, no. 8, p. 1382-1392., WOS*
- ADCA16 BOREKOVÁ, Martina - HOJEROVÁ, Jarmila - KOPRDA, Vasil' - BAUEROVÁ, Katarína. Nourishing and health benefits of coenzyme Q10 - a review. In *Czech Journal of Food Sciences, 2008, vol. 26, no. 4, p. 229-241. (0.448 - IF2007). (2008 - Current Contents, SCOPUS, TOXLINE PLUS, CAB Abstracts, AGRIS/FAO, SCISEARCH). ISSN 1212-1800.*
- Citácie:
1. [1.1] BALANI, Ch. - BHATT, P. Adjuvant therapy in hyperthyroidism. In *HANDBOOK OF HYPERTHYROIDISM: ETIOLOGY, DIAGNOSIS AND TREATMENT. New York, Nova publishers 2010, p. 159-178. ISBN: 978-1-60876-441-9., WOS*
2. [1.1] STIFF, M.R. - WEISSINGER, A.K. - DANEHOWER, D.A. Analysis of CoQ(10) in Cultivated Tobacco by a High-Performance Liquid Chromatography-Ultraviolet Method. In *JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY. ISSN 0021-8561, 2011, vol. 59, no. 17, p. 9054-9058., WOS*
3. [1.1] SWARNAKAR, N.K. - JAIN, A.K. - SINGH, R.P. - GODUGU, C. - DAS, M. - JAIN, S. Oral bioavailability, therapeutic efficacy and reactive oxygen species scavenging properties of coenzyme Q10-loaded polymeric nanoparticles. In *BIOMATERIALS. ISSN 0142-9612, 2011, vol. 32, no. 28, p. 6860-6874., WOS*
- ADCA17 BRILLANTES, Anne-Marie B. - ONDRIAŠ, Karol - SCOTT, Andrew - KOBRINSKY, Evgeny - ONDRIAŠOVÁ, Elena - MOSCHELLA, Maria C. - JAYARAMAN, Thottala - LANDERS, Mark - EHRLICH, Barbara E. - MARKS, Andrew R. Stabilization of calcium release channel (ryanodine receptor) function by

FK506-binding protein. In *Cell*, 1994, vol. 77, iss. 4, p. 513-523. ISSN 0092-8674.

Citácie:

1. [1.1] ANDERSSON, D.C. - BETZENHAUSER, M.J. - REIKEN, S. - MELI, A.C. - UMANSKAYA, A. - XIE, W.J. - SHIOMI, T. - ZALK, R. - LACAMPAGNE, A. - MARKS, A.R. Ryanodine Receptor Oxidation Causes Intracellular Calcium Leak and Muscle Weakness in Aging. In *CELL METABOLISM*. ISSN 1550-4131, 2011, vol. 14, no. 2, p. 196-207., WOS
2. [1.1] CALDERON-SANCHEZ, E. - RODRIGUEZ-MOYANO, M. - SMANI, T. Immunophilins and Cardiovascular Complications. In *CURRENT MEDICINAL CHEMISTRY*. ISSN 0929-8673, 2011, vol. 18, no. 35, p. 5408-5413., WOS
3. [1.1] DULHUNTY, A.F. - HEWAWASAM, R. - LIU, D. - CASAROTTO, M.G. - BOARD, P.G. Regulation of the cardiac muscle ryanodine receptor by glutathione transferases. In *DRUG METABOLISM REVIEWS*. ISSN 0360-2532, 2011, vol. 43, no. 2, p. 236-252., WOS
4. [1.1] EHNINGER, D. - SILVA, A.J. Rapamycin for treating Tuberous sclerosis and Autism spectrum disorders. In *TRENDS IN MOLECULAR MEDICINE*. ISSN 1471-4914, 2011, vol. 17, no. 2, p. 78-87., WOS
5. [1.1] GUO, Z.H. - LI, F. - ZHU, Y.M. - FU, J. - YANG, M. - SAN, Z.Y. - WANG, W.Z. The 12-kDa FK506-binding Protein Involvement in Neuroprotection Provided by Dantrolene in Ischemic/Reperfused Rat Cerebral Cortex. In *CESKA A SLOVENSKA NEUROLOGIE A NEUROCHIRURGIE*. ISSN 1210-7859, 2011, vol. 74, no. 1, p. 49-53., WOS
6. [1.1] HEINZEL, F.R. - MACQUAIDE, N. - BIESMANS, L. - SIPIDO, K. Dyssynchrony of Ca(2+) release from the sarcoplasmic reticulum as subcellular mechanism of cardiac contractile dysfunction. In *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*. ISSN 0022-2828, 2011, vol. 50, no. 3, p. 390-400., WOS
7. [1.1] HUANG, C.L.H. - PEDERSEN, T.H. - FRASER, J.A. Reciprocal dihydropyridine and ryanodine receptor interactions in skeletal muscle activation. In *JOURNAL OF MUSCLE RESEARCH AND CELL MOTILITY*. ISSN 0142-4319, 2011, vol. 32, no. 3, p. 171-202., WOS
8. [1.1] KIM, K.H. - BOSE, D.D. - GHOGHA, A. - RIEHL, J. - ZHANG, R. - BARNHART, C.D. - LEIN, P.J. - PESSAH, I.N. Para- and Ortho-Substitutions Are Key Determinants of Polybrominated Diphenyl Ether Activity toward Ryanodine Receptors and Neurotoxicity. In *ENVIRONMENTAL HEALTH PERSPECTIVES*. ISSN 0091-6765, 2011, vol. 119, no. 4, p. 519-526., WOS
9. [1.1] LI, W. - BHAT, S. - LIU, J.O. A simple and efficient route to the FKBP-binding domain from rapamycin. In *TETRAHEDRON LETTERS*. ISSN 0040-4039, 2011, vol. 52, no. 39, p. 5070-5072., WOS
10. [1.1] MELI, A.C. - REFAAT, M.M. - DURA, M. - REIKEN, S. - WRONSKA, A. - WOJCIAK, J. - CARROLL, J. - SCHEINMAN, M.M. - MARKS, A.R. A Novel Ryanodine Receptor Mutation Linked to Sudden Death Increases Sensitivity to Cytosolic Calcium. In *CIRCULATION RESEARCH*. ISSN 0009-7330, 2011, vol. 109, no. 3, p. 281-U113., WOS
11. [1.1] REYES, R.C. - PERRY, G. - LESORT, M. - PARPURA, V. Immunophilin deficiency augments Ca(2+)-dependent glutamate release from mouse cortical astrocytes. In *CELL CALCIUM*. ISSN 0143-4160, 2011, vol. 49, no. 1, p. 23-34., WOS
12. [1.1] ROSENSTOCK, T.R. - DE BRITO, O.M. - LOMBARDI, V. - LOUROS, S. - RIBEIRO, M. - ALMEIDA, S. - FERREIRA, I.L. - OLIVEIRA, C.R. - REGO, A.C. FK506 ameliorates cell death features in Huntington's disease striatal cell models. In *NEUROCHEMISTRY INTERNATIONAL*. ISSN 0197-0186, 2011, vol.

59, no. 5, p. 600-609., WOS

13. [1.1] RYAN, T. - SHARMA, P. - IGNATCHENKO, A. - MACLENNAN, D.H. - KISLINGER, T. - GRAMOLINI, A.O. Identification of Novel Ryanodine Receptor 1 (RyR1) Protein Interaction with Calcium Homeostasis Endoplasmic Reticulum Protein (CHERP). In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2011, vol. 286, no. 19, p. 17060-17068., WOS

14. [1.1] SONG, D.W. - LEE, J.G. - YOUN, H.S. - EOM, S.H. - KIM, D.H. Ryanodine receptor assembly: A novel systems biology approach to 3D mapping. In PROGRESS IN BIOPHYSICS & MOLECULAR BIOLOGY. ISSN 0079-6107, 2011, vol. 105, no. 3, SI, p. 145-161., WOS

15. [1.2] CAPES, E.M. - LOAIZA, R. - VALDIVIA, H.H. Ryanodine receptors. In SKELETAL MUSCLE. ISSN 2044-5040, 2011, vol. 1, no. 1, art. no. 18, DOI: 10.1186/2044-5040-1-18, SCOPUS

- ADCA18 BRUCKNEROVÁ, Ingrid - BZDÚCH, Vladimír - BEHÚLOVÁ, Darina - FERIANEC, Vladimír - DUBOVICKÝ, Michal - UJHÁZY, Eduard - MACH, Mojmir. Reversible asphyxial status in a newborn due to neonatal form of carnitine palmitoyltransferase II deficiency. In Neuroendocrinology Letters, 2008, vol. 29, no. 5, p. 627-630. (1.443 - IF2007). ISSN 0172-780X.

Citácie:

1. [1.1] YAHYAOU, R. - ESPINOSA, M.G. - GOMEZ, C. - DAYALDASANI, A. - RUEDA, I. - ROLDAN, A. - UGARTE, M. - LASTRA, G. - PEREZ, V. Neonatal carnitine palmitoyltransferase II deficiency associated with Dandy-Walker syndrome and sudden death. In MOLECULAR GENETICS AND METABOLISM. ISSN 1096-7192, 2011, vol. 104, no. 3, p. 414-416., WOS

- ADCA19 CUMAOGU, Ahmet - ÇEVİK, Cemal - RAČKOVÁ, Lucia - ARI, Nuray - KARASU, Çimen. Effects of antioxidant stobadine on protein carbonylation, advanced oxidation protein products and reductive capacity of liver in streptozotocin-diabetic rats: role of oxidative/nitrosative stress. In BioFactors, 2007, vol. 30, p. 171-178. (1.095 - IF2006). (2007 - Current Contents). ISSN 0951-6433.

Citácie:

1. [1.2] GHOLAMPOUR, F. - OWJI, S.M. - JAVADIFAR, T.S. Chronic exposure to extremely low frequency electromagnetic field induces mild renal damages in rats. In INTERNATIONAL JOURNAL OF ZOOLOGICAL RESEARCH. ISSN 1811-9778, 2011, vol. 7, no. 6, p. 393-400

- ADCA20 ČÍŽ, Milan - KOMRSKOVÁ, Daniela - PRACHAŘOVÁ, Lucie - OKÉNKOVÁ, Kateřina - ČÍŽOVÁ, Hana - MORAVCOVÁ, Aneta - JANČINOVÁ, Viera - PETŘÍKOVÁ, Margita - LOJEK, Antonín - NOSÁL, Radomír. Serotonin modulates the oxidative burst of human phagocytes via various mechanisms. In Platelets, 2007, vol. 18, no. 8, p. 583-590. (1.679 - IF2006). (2007 - Current Contents). ISSN 0953-7104.

Citácie:

1. [1.1] DAS, U.N. Alzheimer's Disease, Schizophrenia and Depression. In MOLECULAR BASIS OF HEALTH AND DISEASE. ISBN 978-94-007-0494-7, 2011, p. 377-415. DOI: 10.1007/978-94-007-0495-4_12, WOS
2. [1.1] DAS, U.N. Inflammation. In MOLECULAR BASIS OF HEALTH AND DISEASE. ISBN 978-94-007-0494-7, 2011, p. 15-100. DOI: 10.1007/978-94-007-0495-4_3, WOS
3. [1.1] DAS, U.N. Insulin Resistance, Dyslipidemia, Type 2 Diabetes Mellitus and Metabolic Syndrome. In MOLECULAR BASIS OF HEALTH AND DISEASE. ISBN 978-94-007-0494-7, 2011, p. 277-332. DOI: 10.1007/978-94-007-0495-4_9, WOS
4. [1.1] HORSTMAN, L.L. - JY, W. - AHN, Y.S. - MAGHZI, A.H. - ETEMADIFAR,

- M. - ALEXANDER, J.S. - MCGEE, J.C. - MINAGAR, A. Complement in neurobiology. In FRONTIERS IN BIOSCIENCE-LANDMARK. ISSN 1093-9946, 2011, vol. 16, p. 2921-2960., WOS*
- ADCA21 DEDÍK, Ladislav - ĎURIŠOVÁ, Mária - PENESOVÁ, Adela - MIKLOVIČOVÁ, Daniela - TVRDOŇOVÁ, Martina. Estimation of influence of gastric emptying on shape of glucose concentration-time profile measured in oral glucose tolerance test. In Diabetes Research and Clinical Practice, 2007, vol. 77, p. 377-384. (1.837 - IF2006). ISSN 0168-8227.
- Citácie:
1. [1.1] TURA, A. - MORBIDUCCI, U. - SBRIGNADELLO, S. - WINHOFER, Y. - PACINI, G. - KAUTZKY-WILLER, A. Shape of glucose, insulin, C-peptide curves during a 3-h oral glucose tolerance test: any relationship with the degree of glucose tolerance?. In AMERICAN JOURNAL OF PHYSIOLOGY-REGULATORY INTEGRATIVE AND COMPARATIVE PHYSIOLOGY. ISSN 0363-6119, 2011, vol. 300, no. 4, p. R941-R948., WOS
- ADCA22 DŘÍMAL, Ján - ZÚROVÁ-NEDELČEVOVÁ, Jana - KNEZL, Vladimír - SOTNÍKOVÁ, Ružena - NAVAROVÁ, Jana. Cardiovascular toxicity of the first line cancer chemotherapeutic agents: doxorubicin, cyclophosphamide, streptozotocin and bevacizumab. In Neuroendocrinology Letters, 2006, vol. 27, suppl. 2, p. 176 - 179. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.
- Citácie:
1. [1.1] CONKLIN, D.J. - HABERZETTL, P. - LEE, J. - SRIVASTAVA, S. Environmental Aldehydes and Cardiovascular Disease. In ENVIRONMENTAL CARDIOLOGY: POLLUTION AND HEART DISEASE. Book Series: Issues in Toxicology, ISBN: 978-1-84973-230-7, 2011, no. 8, p. 301-370., WOS
2. [1.1] VINEREAN, H.V. - GAZDA, L.S. - HALL, R.D. - SMITH, B.H. Streptozotocin is responsible for the induction and progression of renal tumorigenesis in diabetic wistar-furth rats treated with insulin or transplanted with agarose encapsulated porcine islets. In ISLETS. ISSN 1938-2014, 2011, vol. 3, no. 4, p. 196-203., WOS
- ADCA23 DŘÍMAL, Ján - DŘÍMAL, Ján, Jr. - DŘÍMAL, Daniel. Enhanced endothelin ETB receptor down-regulation in human tumor cells. In European Journal of Pharmacology. - Amsterdam : Elsevier, 2000, vol. 396, no. 1, p. 19-22. (2.047 - IF1999). (2000 - Current Contents). ISSN 0014-2999.
- Citácie:
1. [1.1] SCHELMAN, W.R. - LIU, G. - WILDING, G. - MORRIS, T. - PHUNG, D. - DREICER, R. A phase I study of zibotentan (ZD4054) in patients with metastatic, castrate-resistant prostate cancer. In INVESTIGATIONAL NEW DRUGS. ISSN 0167-6997, 2011, vol. 29, no. 1, p. 118-125., WOS
- ADCA24 DUBOVICKÝ, Michal - UJHÁZY, Eduard - KOVAČOVSKÝ, Pavel - RYCHLÍK, Ivo - JANŠÁK, Jozef. Evaluation of long-term administration of the antioxidant stobadine on exploratory behaviour in rats of both genders. In Journal of applied toxicology, 1999, vol. 19, p. 431-436. (0.705 - IF1998). (1999 - Current Contents). ISSN 0260-437X.
- Citácie:
1. [2.2] ASARE, G.A. - ADDO, P. - BUGYEI, K. - GYAN, B. - ADJEI, S. - OTU-NYARKO, L.S. - WIREDU, E.K. - NYARKO, A. Acute toxicity studies of aqueous leaf extract of Phyllanthus niruri. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 206-210, SCOPUS
- ADCA25 DUBOVICKÝ, Michal - UJHÁZY, Eduard - KOVAČOVSKÝ, Pavel - RYCHLÍK, Ivo - KALNOVIČOVÁ, Terézia - NAVAROVÁ, Jana - TURČÁNI, Peter - ĎURIŠOVÁ, Mária - GAJDOŠÍK, Andrej. Effect of long-term administration of

stobadine on exploratory behaviour and on striatal levels of dopamine and serotonin in rats and their offspring. In Journal of applied toxicology, 1997, vol. 17, no.1, p. 63-70. (0.657 - IF1996). (1997 - Current Contents). ISSN 0260-437X.

Citácie:

1. [2.2] ASARE, G.A.- ADDO, P. - BUGYEI, K. - GYAN, B. - ADJEI, S. - OTU-NYARKO, L.S. - WIREDU, E.K. - NYARKO, A. *Acute toxicity studies of aqueous leaf extract of Phyllanthus niruri. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 206-210, SCOPUS*

ADCA26 DUBOVICKÝ, Michal - ŠKULTÉTYOVÁ, I. - JEŽOVÁ, Daniela. Neonatal stress alters habituation of exploratory behavior in adult male but not female rats. In Pharmacology, biochemistry and behavior, 1999, vol. 64, no. 4, p. 681-686. (1.612 - IF1998). (1999 - Current Contents). ISSN 0091-3057.

Citácie:

1. [1.1] Spencer, Karen A.; MacDougall-Shackleton, Scott A. *Indicators of development as sexually selected traits: the developmental stress hypothesis in context. Beh Ecol. 2011 Jan-Feb; 1(22): 1-9., WOS*

ADCA27 DUBOVICKÝ, Michal - MACH, Mojmír - KEY, Mary - MORRIS, Mariana - PATON, Sarah - LUCOT, James B. Diurnal behavioral and endocrine effects of chronic shaker stress in mice. In Neuroendocrinology Letters, 2007, vol. 28, no. 6, p. 846-853. (0.924 - IF2006). ISSN 0172-780X. Biogenic amines : international journal of stress and neuroprotection, 2007, vol. 21, no. 6, p. 339-354. (0.924 - IF2006). ISSN 0168-8561.

Citácie:

1. [1.1] JIANG, W.G. - LI, S.X. - ZHOU, S.J. - SUN, Y. - SHI, J. - LU, L. *Chronic unpredictable stress induces a reversible change of PER2 rhythm in the suprachiasmatic nucleus. In BRAIN RESEARCH. ISSN 0006-8993, 2011, vol. 1399, p. 25-32., WOS*

ADCA28 DUBOVICKÝ, Michal - JEŽOVÁ, Daniela. Effect of chronic emotional stress on habituation processes in open field in adult rats. In Annals of the New York Academy of Sciences, 2004, vol. 1018, p. 199-206. (1.892 - IF2003). ISSN 0077-8923.

Citácie:

1. [1.1] BADOWSKA-SZALEWSKA, E. - SPODNIK, E. - LUDKIEWICZ, B. - KLEJBOR, I. - MORYS, J. *Nerve growth factor (NGF) immunoreactive neurons in the juvenile rat hippocampus: response to acute and long-term high-light open-field (HL-OF) or forced swim (FS) stress stimulation. In NEUROSCIENCE. ISSN 0306-4522, 2011, vol. 199, p. 491-500., WOS*

2. [1.1] Badowska-Szalewska E, Spodnik E, Klejbor I, Ludkiewicz B, Moryś J. *Do two models of acute and chronic stress stimulation influence the amount of nerve growth factor (NGF) and its receptor TrkA in the hippocampal neurons of middle aged rats? Brain Res. 2011 1384:97-109., WOS*

ADCA29 ĎURIŠOVÁ, Mária - DEDÍK, Ladislav. New mathematical methods in pharmacokinetic modeling. In Basic & clinical pharmacology & toxicology : formerly Pharmacology and toxicology. - Copenhagen : Nordic Pharmacological Society, 2005, vol. 96, no. 5, p. 335-342. (1.342 - IF2004). (2005 - Current Contents). ISSN 1742-7835.

Citácie:

1. [1.1] SEOK, K.H. - SHIM, J. - CHO, D. - NOH, G.J. - HWANG, C. *Semiparametric mixed-effect least squares support vector machine for analyzing pharmacokinetic and pharmacodynamic data. In NEUROCOMPUTING. ISSN 0925-2312, 2011, vol. 74, no. 17, p. 3412-3419., WOS*

2. [1.1] VICECONTI, M. *A tentative taxonomy for predictive models in relation to*

their falsifiability. In PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES. ISSN 1364-503X, 2011, vol. 369, no. 1954, SI, p. 4149-4161., WOS
 3. [1.2] ARAUJO, P. - ASTRAY, G. - CID, A. - OROSA, A. - MOLDES, O. - SOTO, B. - RODRÍGUEZ-SUAREZ, J.A. Prediction of water temperature in a small river using multilayer perceptron artificial neural networks. In ELECTRONIC JOURNAL OF ENVIRONMENTAL, AGRICULTURAL AND FOOD CHEMISTRY. ISSN 1579-4377, 2011, vol. 10, no. 8, p. 1608-2615, SCOPUS

- ADCA30 FUNK, Oliver F. - KETTMANN, Viktor - DŘÍMAL, Ján - LANGER, Thierry. Chemical function based pharmacophore generation of endothelin-A selective receptor antagonists. In Journal of medicinal chemistry. - Easton, (Washington) : American Chemical Society, 2004, vol. 47, no. 11, p. 2750 - 2760. (4.820 - IF2003). (2004 - Current Contents). ISSN 0022-2623.

Citácie:

1. [1.1] BABU, V.S. - BALAJI, V.N. - VISWANADHAN, V.N. - CHAN, M.F. - PHUKAN, S. - RAO, S.N. Three-dimensional pharmacophore modelling studies on antagonists of endothelin receptor ET(A). In CURRENT SCIENCE. ISSN 0011-3891, 2011, vol. 100, no. 12, p. 1847-1855., WOS
2. [1.1] RIPPHAUSEN, P. - NISIUS, B. - WAWER, M. - BAJORATH, J. Rationalizing the Role of SAR Tolerance for Ligand-Based Virtual Screening. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2011, vol. 51, no. 4, p. 837-842., WOS
3. [1.1] RIPPHAUSEN, P. - WASSERMANN, A.M. - BAJORATH, J. REPROVIS-DB: A Benchmark System for Ligand-Based Virtual Screening Derived from Reproducible Prospective Applications. In JOURNAL OF CHEMICAL INFORMATION AND MODELING. ISSN 1549-9596, 2011, vol. 51, no. 10, p. 2467-2473., WOS
4. [1.1] WILLIAMS, F.J. - JARVO, E.R. Palladium-Catalyzed Cascade Reaction for the Synthesis of Substituted Isoindolines. In ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. ISSN 1433-7851, 2011, vol. 50, no. 19, p. 4459-4462., WOS

- ADCA31 GAJDOŠÍKOVÁ, Alena - UJHÁZY, Eduard - GAJDOŠÍK, Andrej - CHALUPA, Ivan - BLÁŠKO, Milan - TOMÁŠKOVÁ, Anna - LÍŠKA, Ján - DUBOVICKÝ, Michal - BAUER, Viktor. Chronic toxicity and micronucleus assay of the new cardioprotective agent stobadine in rats. In Arzneimittel-Forschung/Drug Research.Special section: Biotechnology in drug research, I, vol. 45, no. 5 (1995). (1995 - Current Contents). ISSN 0004-4172.

Citácie:

1. [2.2] ASARE, G.A. - ADDO, P. - BUGYEI, K. - GYAN, B. - ADJEI, S. - OTU-NYARKO, L.S. - WIREDU, E.K. - NYARKO, A. Acute toxicity studies of aqueous leaf extract of Phyllanthus niruri. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 206-210, SCOPUS

- ADCA32 KVALTÍNOVÁ, Zdenka - LUKOVIČ, Ľudovít - MACHOVÁ, Jana - FATRANSKÁ, M. Effect of the steroidal alkaloid buxaminol-E on blood pressure, acetylcholinesterase activity and (3H)quinuclidinyl benzilate binding in cerebral cortex. In Pharmacology : international journal of experimental and clinical pharmacology, 1991, vol. 43, no.1, p. 20-25. ISSN 0031-7012.

Citácie:

1. [1.1] ORHAN, I.E. - KHAN, M.T.H. - ERDEM, S.A. - KARTAL, M. - SENER, B. Selective Cholinesterase Inhibitors from Buxus sempervirens L. and their Molecular Docking Studies. In CURRENT COMPUTER-AIDED DRUG DESIGN.

- ADCA33 *ISSN 1573-4099, 2011, vol. 7, no. 4, p. 276-286., WOS*
GÁSPÁROVÁ, Zdenka - JARIABKA, Pavol - ŠTOLC, Svorad. Effect of transient ischemia on long-term potentiation of synaptic transmission in rat hippocampal slices. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 702-705. (1.443 - IF2007). ISSN 0172-780X.
 Citácie:
 1. [3] *ENGEL P. Does poor sleep quality in late life compromise cognition and accelerate progression of the degenerative dementias? In McNamara, P. ed. DEMENTIA. Vol. I. HISTORY AND INCIDENCE. Chapter 8, ISBN 978-0-313-38434-9, 2011, p. 177-201.*
- ADCA34 GERGEL, Dalibor - CEDERBAUM, Arthur I. Interaction of nitric oxide with 2-thio-5-nitrobenzoic acid: implications for the determination of free sulfhydryl groups by Ellman's reagent. In *Archives of Biochemistry and Biophysics*, 1997, vol. 347, iss. 2, p. 282-288. (2.844 - IF1996). (1997 - Current Contents). ISSN 0003-9861.
 Citácie:
 1. [1.1] *CRACK, J.C. - SMITH, L.J. - STAPLETON, M.R. - PECK, J. - WATMOUGH, N.J. - BUTTNER, M.J. - BUXTON, R.S. - GREEN, J. - OGANESYAN, V.S. - THOMSON, A.J. - LE BRUN, N.E. Mechanistic Insight into the Nitrosylation of the [4Fe-4S] Cluster of WhiB-like Proteins. In JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. ISSN 0002-7863, 2011, vol. 133, no. 4, p. 1112-1121., WOS*
 2. [1.1] *KUDUGUNTI, S.K. - THORSHEIM, H. - YOUSEF, M.S. - GUAN, L. - MORIDANI, M.Y. The metabolic bioactivation of caffeic acid phenethyl ester (CAPE) mediated by tyrosinase selectively inhibits glutathione S-transferase. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2011, vol. 192, no. 3, p. 243-256., WOS*
 3. [1.1] *KUDUGUNTI, S.K. - VAD, N.M. - EKOGB, E. - MORIDANI, M.Y. Efficacy of Caffeic Acid Phenethyl Ester (CAPE) in skin B16-F0 melanoma tumor bearing C57BL/6 mice. In INVESTIGATIONAL NEW DRUGS. ISSN 0167-6997, 2011, vol. 29, no. 1, p. 52-62., WOS*
- ADCA35 GERGEL, Dalibor - CEDERBAUM, Arthur I. Inhibition of the catalytic activity of alcohol dehydrogenase by nitric oxide is associated with S nitrosylation and the release of zinc. In *Biochemistry*, 1996, vol. 35, no. 50, p. 16186-16194. (5.144 - IF1995). ISSN 0006-2960.
 Citácie:
 1. [1.1] *BOURLES, E. - ISAAC, M. - LEBRUN, C. - LATOUR, J.M. - SENEQUE, O. Oxidation of Zn(Cys)₄ Zinc Finger Peptides by O₂ and H₂O₂: Products, Mechanism and Kinetics. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2011, vol. 17, no. 49, p. 13762-13772., WOS*
 2. [1.1] *MATSUMOTO, M. - CYGANNEK, I. - SANGHANI, P.C. - CHO, W.K. - LIANGPUNSAKUL, S. - CRABB, D.W. Ethanol Metabolism by HeLa Cells Transduced With Human Alcohol Dehydrogenase Isoenzymes: Control of the Pathway by Acetaldehyde Concentration. In ALCOHOLISM-CLINICAL AND EXPERIMENTAL RESEARCH. ISSN 0145-6008, 2011, vol. 35, no. 1, p. 28-38., WOS*
 3. [1.1] *STAAB, C.A. - HARTMANOVA, T. - EL-HAWARI, Y. - EBERT, B. - KISIELA, M. - WSOL, V. - MARTIN, H.J. - MASER, E. Studies on reduction of S-nitrosoglutathione by human carbonyl reductases 1 and 3. In CHEMICO-BIOLOGICAL INTERACTIONS. ISSN 0009-2797, 2011, vol. 191, no. 1-3, SI, p. 95-103., WOS*
 4. [1.1] *XU, D.S. - TREE, D.R. - LEWIS, R.S. The effects of syngas impurities on syngas fermentation to liquid fuels. In BIOMASS & BIOENERGY. ISSN 0961-*

9534, 2011, vol. 35, no. 7, p. 2690-2696., WOS

5. [1.2] HANCOCK, J.T. - LISJAK, M. - TEKLIĆ, T. - WILSON, I.D. - WHITEMAN, M. *Hydrogen sulphide and signalling in plants. In CAB REVIEWS: PERSPECTIVES IN AGRICULTURE, VETERINARY SCIENCE, NUTRITION AND NATURAL RESOURCES. ISSN 1749-8848, 2011, vol. 6, no.4, art. no. 27, SCOPUS*

ADCA36 GERGEL, Dalibor - MIŠÍK, Vladimír - ONDRIŠ, Karol - CEDERBAUM, Arthur I. Increased cytotoxicity of 3-morpholinolinosydnonimine to HepG2 cells in the presence of superoxide dismutase. In *Journal of Biological Chemistry*, 1995, vol. 270, no. 36, p. 20922-20929. (7.716 - IF1994). (1995 - Current Contents). ISSN 0021-9258.

Citácie:

1. [1.1] BOWMAN, L.A.H. - MCLEAN, S. - POOLE, R.K. - FUKUTO, J.M. *The diversity of microbial responses to nitric oxide and agents of nitrosative stress. Close cousins but not identical twins. In Poole, R.K. ed. ADVANCES IN MICROBIAL PHYSIOLOGY. London, Academic Press 2011, ISSN 0065-2911, vol. 59, p. 135-219, ISBN 978-0-12-387661-4, WOS*

2. [1.1] CHEN, T.I. - SHEN, Y.J. - WANG, I.C. - YANG, K.T. *Short-term exercise provides left ventricular myocardial protection against intermittent hypoxia-induced apoptosis in rats. In EUROPEAN JOURNAL OF APPLIED PHYSIOLOGY. ISSN 1439-6319, 2011, vol. 111, no. 8, p. 1939-1950., WOS*

3. [1.1] ZENG, N. - LI, Y. - HE, L.N. - XU, X.L. - GALICIA, V. - DENG, C.X. - STILES, B.L. *Adaptive Basal Phosphorylation of eIF2 alpha Is Responsible for Resistance to Cellular Stress-Induced Cell Death in Pten-Null Hepatocytes. In MOLECULAR CANCER RESEARCH. ISSN 1541-7786, 2011, vol. 9, no. 12, p. 1708-1717., WOS*

ADCA37 GÜNEŞ, A. - CEYLAN, Asli - SARIOĞLU, Y. - ŠTEFEK, Milan - BAUER, Viktor - KARASU, Çimen. Reactive oxygen species mediate abnormal contractile response to sympathetic nerve stimulation and noradrenaline in the vas deferens of chronically diabetic rats: effects of in vivo treatment with antioxidants. In *Fundamental & Clinical Pharmacology*. - Oxford : Blackwell Publishing, 2005, vol. 19, no. 1, p. 73 - 79. (1.711 - IF2004). (2005 - Current Contents). ISSN 0767-3981.

Citácie:

1. [1.1] FARIAS, V.X. - MACEDO, F.H.P. - OQUENDO, M.B. - TOME, A.R. - BAO, S.N. - CINTRA, D.O.S. - SANTOS, C.F. - ALBUQUERQUE, A.A.C. - HEIMARK, D.B. - LARNER, J. - FONTELES, M.C. - LEAL-CARDOSO, J.H. - NASCIMENTO, N.R.F. *Chronic treatment with D-chiro-inositol prevents autonomic and somatic neuropathy in STZ-induced diabetic mice. In DIABETES OBESITY & METABOLISM. ISSN 1462-8902, 2011, vol. 13, no. 3, p. 243-250., WOS*

2. [1.1] FERNANDES, G.S.A. - GERARDIN, D.C.C. - ASSUMPCAO, T.A. - CAMPOS, K.E. - DAMASCENO, D.C. - PEREIRA, O.C.M. - KEMPINAS, W.D.G. *Can vitamins C and E restore the androgen level and hypersensitivity of the vas deferens in hyperglycemic rats?. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 983-991., WOS*

3. [1.1] LEOCADIO, D.E. - KUNSELMAN, A.R. - COOPER, T. - BARRANTES, J.H. - TRUSSELL, J.C. *Anatomical and histological equivalence of the human, canine, and bull vas deferens. In CANADIAN JOURNAL OF UROLOGY. ISSN 1195-9479, 2011, vol. 18, no. 3, p. 5699-5704., WOS*

4. [1.1] PONTES, D.A. - FERNANDES, G.S.A. - PIFFER, R.C. - GERARDIN, D.C.C. - PEREIRA, O.C.M. - KEMPINAS, W.G. *Ejaculatory dysfunction in streptozotocin-induced diabetic rats: the role of testosterone. In*

PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 1, p. 130-138., WOS

- ADCA38 GUZ, Galip - DEMIROGULLARI, Billur - ULUSU, Nuray N. - DOGU, Cihangir - DEMIRTOLA, Arzu - KAVUTCU, Mustafa - OMEROGLU, Suna - ŠTEFEK, Milan - KARASU, Çimen. Stobadine protects rat kidney against ischaemia/reperfusion injury. In *Clinical and Experimental Pharmacology and Physiology*, 2007, vol. 34, no. 3, p. 210-216. (1.780 - IF2006). ISSN 0305-1870.

Citácie:

1. [1.1] HAVASI, A. - BORKAN, S.C. Apoptosis and acute kidney injury. In *KIDNEY INTERNATIONAL. ISSN 0085-2538, 2011, vol. 80, no. 1, p. 29-40., WOS*

- ADCA39 HANNA, Ibrahim R. - TANIYAMA, Yoshihiro - SZÖCS, Katalin - ROCIC, Petra - GRIENDLING, Kathy K. NAD(P)H oxidase-derived reactive oxygen species as mediators of angiotensin II signalling. In *Antioxidants & redox signaling*, 2002, vol. 4, p. 899-914. ISSN 1523-0864.

Citácie:

1. [1.1] ADAMS, V. - ANKER, S.D. - SCHULER, G. Muscle Metabolism and Exercise Capacity in Cachexia. In *CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2011, vol. 17, no. 35, p. 3838-3845., WOS*

2. [1.1] CABELLO-VERRUGIO, C. - ACUNA, M.J. - MORALES, M.G. - BECERRA, A. - SIMON, F. - BRANDAN, E. Fibrotic response induced by angiotensin-II requires NAD(P)H oxidase-induced reactive oxygen species (ROS) in skeletal muscle cells. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2011, vol. 410, no. 3, p. 665-670., WOS*

3. [1.1] HAMELIN, B.A. - ZAKRZEWSKI-JAKUBIAK, M. - ROBITAILLE, N.M. - BOGATY, P. - LABBE, L. - TURGEON, J. Increased Risk of Myocardial Infarction Associated With Angiotensin-Converting Enzyme Gene Polymorphism Is Age Dependent. In *JOURNAL OF CLINICAL PHARMACOLOGY. ISSN 0091-2700, 2011, vol. 51, no. 9, p. 1286-1292., WOS*

4. [1.1] KHAN, S.R. - KHAN, A. - BYER, K.J. Temporal changes in the expression of mRNA of NADPH oxidase subunits in renal epithelial cells exposed to oxalate or calcium oxalate crystals. In *NEPHROLOGY DIALYSIS TRANSPLANTATION. ISSN 0931-0509, 2011, vol. 26, no. 6, p. 1778-1785., WOS*

5. [1.1] KHAN, S.R. Renal Cellular Dysfunction/Damage and the Formation of Kidney Stones. In *URINARY TRACT STONE DISEASE. New York, Springer 2011, p. 61-86. ISBN 978-1-84800-361-3, WOS*

6. [1.1] LEUNG, J.C.K. - CHAN, L.Y.Y. - TANG, S.C.W. - LAM, M.F. - CHOW, C.W. - LIM, A.I. - LAI, K.N. Oxidative damages in tubular epithelial cells in IgA nephropathy: role of crosstalk between angiotensin II and aldosterone. In *JOURNAL OF TRANSLATIONAL MEDICINE. ISSN 1479-5876, 2011, vol. 9, article number 169, DOI: 10.1186/1479-5876-9-169, WOS*

7. [1.1] MEDOW, M.S. - BAMJI, N. - CLARKE, D. - OCON, A.J. - STEWART, J.M. Reactive oxygen species (ROS) from NADPH and xanthine oxidase modulate the cutaneous local heating response in healthy humans. In *JOURNAL OF APPLIED PHYSIOLOGY. ISSN 8750-7587, 2011, vol. 111, no. 1, p. 20-26., WOS*

8. [1.1] PENG, Y.J. - RAGHURAMAN, G. - KHAN, S.A. - KUMAR, G.K. - PRABHAKAR, N.R. Angiotensin II evokes sensory long-term facilitation of the carotid body via NADPH oxidase. In *JOURNAL OF APPLIED PHYSIOLOGY. ISSN 8750-7587, 2011, vol. 111, no. 4, p. 964-970., WOS*

9. [1.1] STEWART, J.M. - OCON, A.J. - MEDOW, M.S. Ascorbate improves circulation in postural tachycardia syndrome. In *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY. ISSN 0363-6135,*

2011, vol. 301, no. 3, p. H1033-H1042., WOS

10. [1.1] ZUO, J. - KHAN, A. - GLENTON, P.A. - KHAN, S.R. *Effect of NADPH oxidase inhibition on the expression of kidney injury molecule and calcium oxalate crystal deposition in hydroxy-L-proline-induced hyperoxaluria in male Sprague-Dawley rats. In NEPHROLOGY DIALYSIS TRANSPLANTATION. ISSN 0931-0509, 2011, vol. 26, no. 6, p. 1785-1796., WOS*

ADCA40

HARHUN, Maksym I. - PUCOVSKÝ, Vladimír - POVSTYAN, O.V. - GORDIENKO, Dmitri V. - BOLTON, Thomas B. Interstitial cells in the vasculature. In Journal of cellular and molecular medicine, 2005, vol.9, no.2, p.232-243. (2.153 - IF2004). (2005 - Current Contents). ISSN 1582-1838 (print).

Citácie:

1. [1.1] CANTARERO, I. - LUESMA, M.J. - JUNQUERA, C. *The primary cilium of telocytes in the vasculature: electron microscope imaging. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, 2011, vol. 15, no. 12, p. 2594-2600., WOS*

2. [1.1] CARMONA, I.C. - BARTOLOME, M.J.L. - ESCRIBANO, C.J. *Identification of telocytes in the lamina propria of rat duodenum: transmission electron microscopy. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, 2011, vol. 15, no. 1, p. 26-30., WOS*

3. [1.1] FORMEY, A. - BUSCEMI, L. - BOITTIN, F.X. - BENY, J.L. - MEISTER, J.J. *Identification and functional response of interstitial Cajal-like cells from rat mesenteric artery. In CELL AND TISSUE RESEARCH. ISSN 0302-766X, 2011, vol. 343, no. 3, p. 509-519., WOS*

4. [1.1] RUSU, M.C. - POP, F. - HOSTIUC, S. - CURCA, G.C. - STREINU-CERCEL, A. *Extrahepatic and Intrahepatic Human Portal Interstitial Cajal Cells. In ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. ISSN 1932-8486, 2011, vol. 294, no. 8, p. 1382-1392., WOS*

ADCA41

HORÁKOVÁ, Ľubica - LUKOVIČ, Ľudovít - ŠTOLC, Svorad. Effect of stobadine and vitamin E on the ischemic reperfused brain tissue. In Pharmazie : an international journal of pharmaceutical sciences, 1990, jahrg. 45, hft. 3, s. 223-224. ISSN 0031-7144.

Citácie:

1. [1.2] BAYRAKTAR, N. - DEVAY DUYGULU, S. - TASLIPINAR, M.Y. - UCANKUS, N.L. - OMEROGLU, S. - GUMUSLU, S. - KAVUTCU, M. - CANBOLAT, O. *Investigation of the effects of stobadine on the antioxidant enzymes in carbon tetrachloride mediated brain toxicity | [karbon tetraklorür araci{dotless}li{dotless} beyin toksisitesinde antioksidan enzimler üzerine stobadinin etkisinin arasti{dotless}ri{dotless}lmas]. In TURKISH JOURNAL OF BIOCHEMISTRY. ISSN 1303-829X, 2011, vol. 36, no. 4, p. 283-289, SCOPUS*

ADCA42

HORÁKOVÁ, Ľubica - ŠTOLC, Svorad. Antioxidant and pharmacodynamic effects of pyridoindole stobadine. In General Pharmacology : the Vascular System, 1998, vol. 30, no. 5, p. 627-638. (1.056 - IF1997). (1998 - Current Contents). ISSN 0306-3623.

Citácie:

1. [1.1] RACKOVA, L. - CUMAOGU, A. - BAGRIACIK, E.U. - STEFEK, M. - MAECHLER, P. - KARASU, C. *Novel Hexahydropyridoindole Derivative as Prospective Agent Against Oxidative Damage in Pancreatic beta Cells. In MEDICINAL CHEMISTRY. ISSN 1573-4064, 2011, vol. 7, no. 6, p. 711-717., WOS*

2. [1.2] BAYRAKTAR, N. - DEVAY DUYGULU, S. - TASLIPINAR, M.Y. - UCANKUS, N.L. - OMEROGLU, S. - GUMUSLU, S. - KAVUTCU, M. -

- CANBOLAT, O. Investigation of the effects of stobadine on the antioxidant enzymes in carbon tetrachloride mediated brain toxicity | [karbon tetraklorür araci{dotless}li{dotless} beyin toksisitesinde antioksidan enzimler üzerine stobadinin etkisinin arařti{dotless}ri{dotless}lmas]. In TURKISH JOURNAL OF BIOCHEMISTRY. ISSN 1303-829X, 2011, vol. 36, no. 4, p. 283-289, SCOPUS 3. [2.2] SOTNIKOVA, R. - NEDELCEVOVA, J. - NAVAROVA, J. - NOSALOVA, V. - DRABIKOVA, K. - SZOCS, K. - KRENEK, P. - KYSELOVA, Z. - BEZEK, S. - KNEZL, V. - DRIMAL, J. - BROSKOVA, Z. - KRISTOVA, V. - OKRUHLICOVA, L. - BERNATOVA, I. - BAUER, V. Protection of the vascular endothelium in experimental situations . In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 1, p. 20-26, SCOPUS*
- ADCA43 HORÁKOVÁ, Ľubica - LICHT, Anke - SANDIG, Grit - JAKSTADT, Manuela - DURAČKOVÁ, Zdenka - GRUNE, Tilman. Standardized extracts of flavonoids increase the viability of PC12 cells treated with hydrogen peroxide: effects on oxidative injury. In Archives of toxicology. - Berlin : Springer, 2003, vol. 77, p. 22 - 29. (1.852 - IF2002). (2003 - Current Contents). ISSN 0340-5761.
Citácie:
1. [1.1] LIN, X.H. - ZHANG, J. - LI, Y. - LUO, H.M. - WU, Q. - SUN, C. - SONG, J.Y. - LI, X.W. - WEI, J.H. - LU, A.P. - QIAN, Z.Z. - KHAN, I.A. - CHEN, S. Functional genomics of a living fossil tree, Ginkgo, based on next-generation sequencing technology. In PHYSIOLOGIA PLANTARUM. ISSN 0031-9317, 2011, vol. 143, no. 3, p. 207-218., WOS
- ADCA44 HRABÁROVÁ, Eva - GEMEINER, Peter - ŠOLTÉS, Ľadislav. Peroxynitrite: in vivo and in vitro synthesis and oxidant degradative action on biological systems regarding biomolecular injury and inflammatory processes. In Chemical papers, 2007, vol. 61, no. 6, p. 417-437. (0.360 - IF2006). (2007 - Current Contents). ISSN 0366-6352.
Citácie:
1. [1.2] ARASIMOWICZ-JELONEK, M. - FLORYSZAK-WIECZOREK, J. Understanding the fate of peroxynitrite in plant cells - From physiology to pathophysiology. In PHYTOCHEMISTRY. ISSN 0031-9422, 2011, vol. 72, no. 8, p. 681-688, SCOPUS
- ADCA45 CHABREČEK, P. - ŠOLTÉS, Ľadislav - KÁLLAY, Zoltán - NOVÁK, Ivan. Gel permeation chromatographic characterization of sodium hyaluronate and its fractions prepared by ultrasonic degradation. In Chromatographia, 1990, vol. 30, no. 3-4, p. 201-204. ISSN 0009-5893.
Citácie:
1. [1.1] LUAN, T. - FANG, Y.P. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H.B. Compared molecular characterization of hyaluronan using multiple-detection techniques. In POLYMER. ISSN 0032-3861, 2011, vol. 52, no. 24, p. 5648-5658., WOS
- ADCA46 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef. Ultrasonication: the way to achieve antimutagenic effect of carboxymethyl-chitin-glucan by oral administration. In Mutation research : genetic toxicology and environmental mutagenesis, 1998, vol. 412, no. 1, p. 83-89. ISSN 1383-5718.
Citácie:
1. [1.1] Ishii, PL (Ishii, Priscila Lumi); Prado, CK (Prado, Carolina Kato); Mauro, MD (Mauro, Mariana de Oliveira); Carreira, CM (Carreira, Clisia Mara); Mantovani, MS (Mantovani, Mario Sergio); Ribeiro, LR (Ribeiro, Lucia Regina); Dichi, JB (Dichi, Jane Bandeira); Oliveira, RJ (Oliveira, Rodrigo Juliano) Source: REGULATORY TOXICOLOGY AND PHARMACOLOGY Volume: 59 Issue: 3 Pages: 412-422, WOS

- ADCA47 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef - KOGAN, Grigorij. Protective effect of the yeast glucomannan against cyclophosphamide-induced mutagenicity. In Mutation research : genetic toxicology and environmental mutagenesis, 1999, vol. 444, no.1, p.117-122. (1999 - Current Contents). ISSN 1383-5718.
- Citácie:
- [1.1] *Madrigal-Santillan, E (Madrigal-Santillan, Eduardo); Morales-Gonzalez, JA (Morales-Gonzalez, Jose A.); Vargas-Mendoza, N (Vargas-Mendoza, Nancy); Reyes-Ramirez, P (Reyes-Ramirez, Patricia); Cruz-Jaime, S (Cruz-Jaime, Sandra); Sumaya-Martinez, T (Sumaya-Martinez, Teresa); Perez-Pasten, R (Perez-Pasten, Ricardo); Madrigal-Bujaidar, E (Madrigal-Bujaidar, Eduardo)* Source: TOXINS Volume: 2 Issue: 4 Pages: 738-757, WOS
 - [1.2] *Rizzetto, L., Kuka, M., De Filippo, C., Cambi, A., Netea, M. G., Beltrame, L., Torcia, M. G., D'Oro, U., Cavalieri, D. (2010). In: Journal of Immunology, 184(8), 4258-4268., SCOPUS*
 - [1.2] *Zechner-Krpan, V., Petravić-Tominac, V., Galović, P., Galović, V., Filipović-Grčić, J., & Srećec, S. (2010) In: Agriculturae Conspectus Scientificus, 75(1), 45-50., SCOPUS*
- ADCA48 CHORVATOVIČOVÁ, Darina - MACHOVÁ, Eva - ŠANDULA, Jozef. Effect of ultrasonicated carboxymethylglucan on cyclophosphamide induced mutagenicity. In Mutation research : genetic toxicology, 1996, vol. 371, no.1-2, p. 115-120. ISSN 0165-1218.
- Citácie:
- [1.1] *Ishii, PL (Ishii, Priscila Lumi); Prado, CK (Prado, Carolina Kato); Mauro, MD (Mauro, Mariana de Oliveira); Carreira, CM (Carreira, Clisia Mara); Mantovani, MS (Mantovani, Mario Sergio); Ribeiro, LR (Ribeiro, Lucia Regina); Dichi, JB (Dichi, Jane Bandeira); Oliveira, RJ (Oliveira, Rodrigo Juliano)* Source: REGULATORY TOXICOLOGY AND PHARMACOLOGY Volume: 59 Issue: 3 Pages: 412-422, WOS
 - [1.1] *Magnani, M (Magnani, Marciane); Castro-Gomez, RJH (Hernan Castro-Gomez, Raul Jorge); Mori, MP (Mori, Mateus Prates); Kuasne, H (Kuasne, Hellen); Gregorio, EP (Gregorio, Emerson Pereira); Libos, F (Libos, Farid, Jr.); Colus, IMD (de Syllos Colus, Ilce Mara)* Source: GENETICS AND MOLECULAR BIOLOGY Volume: 34 Issue: 1 Pages: 131-135, WOS
- ADCA49 JANČINOVÁ, Viera - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - RAČKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - HOLOMÁŇOVÁ, Dagmar. The combined luminol/isoluminol chemiluminescence method for differentiating between extracellular and intracellular oxidant production by neutrophils. In Redox Report. - Leeds : W.S.Maney & Sons, 2006, vol. 11, no. 3, p.110 - 116. (1.887 - IF2005). (2006 - Current Contents). ISSN 1351-0002.
- Citácie:
- [1.1] *GUARDIGLI, M. - LUNDIN, A. - RODA, A. "Classical" Applications of Chemiluminescence and Bioluminescence. In Roda, A. ed. CHEMILUMINESCENCE AND BIOLUMINESCENCE: PAST, PRESENT AND FUTURE. Cambridge: Royal Soc. CHemistry 2011, p. 143-190. ISBN 978-1-84755-812-1, WOS*
 - [1.1] *MEHRZAD, J. - KLEIN, G. - KAMPHUES, J. - WOLF, P. - GRABOWSKI, N. - SCHUBERTH, H.J. In vitro effects of very low levels of aflatoxin B-1 on free radicals production and bactericidal activity of bovine blood neutrophils. In VETERINARY IMMUNOLOGY AND IMMUNOPATHOLOGY. ISSN 0165-2427, 2011, vol. 141, no. 1-2, p. 16-25., WOS*
- ADCA50 JANČINOVÁ, Viera - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír -

DANIHELOVÁ, Edita. Platelet-dependent modulation of polymorphonuclear leukocyte chemiluminescence. In Platelets. - London : Taylor & Francis, 2000, vol. 11, p. 278-285. (0.882 - IF1999). (2000 - Current Contents). ISSN 0953-7104.

Citácie:

1. [1.1] SAKAMOTO, H. - WU, B. - NAGAI, Y. - TANAKA, S. - ONODERA, M. - OGAWA, T. - UENO, M. Platelet high-density lipoprotein activates transferrin-derived phagocytosis activators, MAPPs, following thrombin digestion. In PLATELETS. ISSN 0953-7104, 2011, vol. 22, no. 5, p. 371-379., WOS
2. [1.1] SHAH, A. - PASSACQUALE, G. - GKALIAGKOUSI, E. - RITTER, J. - FERRO, A. Platelet nitric oxide signalling in heart failure: role of oxidative stress. In CARDIOVASCULAR RESEARCH. ISSN 0008-6363, 2011, vol. 91, no. 4, p. 625-631., WOS

ADCA51 JAYARAMAN, Thottala - ONDRIAŠ, Karol - ONDRIAŠOVÁ, Elena - MARKS, Andrew R. Regulation of the inositol 1,4,5 -trisphosphate receptor by tyrosine phosphorylation. In Science, 1996, vol. 272, no. 5267, p. 1492-1494. ISSN 0036-8075.

Citácie:

1. [1.1] LOPEZ, E. - ROSADO, J.A. - REDONDO, P.C. Immunophilins and Thrombotic Disorders. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2011, vol. 18, no. 35, p. 5414-5423., WOS
2. [1.1] MA, H.T. - BEAVEN, M.A. REGULATORS OF Ca(2+) SIGNALING IN MAST CELLS: Potential Targets for Treatment of Mast Cell-Related Diseases?. In MAST CELL BIOLOGY: CONTEMPORARY AND EMERGING TOPICS. ISSN 0065-2598, 2011, vol. 716, p. 62-90., WOS

ADCA52 JAYARAMAN, Thottala - ONDRIAŠOVÁ, Elena - ONDRIAŠ, Karol - HARNICK, David J. - MARKS, Andrew R. The inositol 1,4,5-trisphosphate receptor is essential for T-cell receptor signaling. In Proceedings of the National Academy of Sciences of the United States of America, 1995, vol. 92, no. 13, p. 6007 - 6011.

Citácie:

1. [1.1] EHLING, P. - BITTNER, S. - BUDDE, T. - WIENDL, H. - MEUTH, S.G. Ion channels in autoimmune neurodegeneration. In FEBS LETTERS. ISSN 0014-5793, 2011, vol. 585, no. 23, p. 3836-3842., WOS

ADCA53 JERLICH, Andreas - FABJAN, Judith S. - TSCHABUSCHNIG, Sylvia - SMIRNOVA, Angela V. - HORÁKOVÁ, Ľubica - HAYN, Marianne - AUER, Helga - GUTTENBERGER, Helmut - LEIS, Hans-Jörg - TATZBER, Franz - WAEG, Georg - SCHAUR, Rudolf Jörg. Human low density lipoprotein as a target of hypochlorite generated by myeloperoxidase. In Free Radical Biology and Medicine, 1998, vol. 24, nos. 7/8, p.1139-1148. (3.528 - IF1997). (1998 - Current Contents). ISSN 0891-5849.

Citácie:

1. [1.1] VAYA, J. - SZUCHMAN, A. - TAVORI, H. - ALUF, Y. Oxysterols formation as a reflection of biochemical pathways: summary of in vitro and in vivo studies. In CHEMISTRY AND PHYSICS OF LIPIDS. ISSN 0009-3084, 2011, vol. 164, no. 6, SI, p. 438-442., WOS

ADCA54 JERLICH, Andreas - HORÁKOVÁ, Ľubica - FABJAN, Judith S. - GIESSAUF, A. - JÜRGENS, G. - SCHAUR, Rudolf Jörg. Correlation of low-density lipoprotein modification by myeloperoxidase with hypochlorous acid formation. In International journal of clinical & laboratory research, 1999, vol. 29, no. 4, p.155-161. (1.571 - IF1998). (1999 - Current Contents). ISSN 0940-5437.

Citácie:

1. [1.1] KOŁODZIEJCZYK, J. - SALUK-JUSZCZAK, J. - POSMYK, M.M. - JANAS, K.M. - WACHOWICZ, B. Red cabbage anthocyanins may protect blood

- plasma proteins and lipids. In CENTRAL EUROPEAN JOURNAL OF BIOLOGY. ISSN 1895-104X, 2011, vol. 6, no. 4, p. 565-574., WOS*
- ADCA55 JURÁNEK, Ivo - SUCHÝ, V. - STARÁ, D. - MAŠTEROVÁ, I. - GRANČAIOVÁ, Z. Antioxidative activity of homoisoflavonoids from *Muscari racemosum* and *Dracena cinnabari*. In *Pharmazie*, 1993, jahrg. 48, hft. 4, s. 310-311.
- Citácie:
- [1.1] CUI, J.L. - GUO, S.X. - DONG, H.L. - XIAO, P.G. *Endophytic Fungi from Dragon's Blood Specimens: Isolation, Identification, Phylogenetic Diversity and Bioactivity. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2011, vol. 25, no. 8, p. 1189-1195., WOS*
 - [1.1] GUPTA, D. - GUPTA, R.K. *Bioprotective properties of Dragon's blood resin: In vitro evaluation of antioxidant activity and antimicrobial activity. In BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1472-6882, 2011, vol. 11. art. no. 13, WOS*
 - [1.2] VITKOVA, Z. - GRANCAI, D. - HALADOVA, M. - HERDOVA, P. - CUPAKOVA, M. - RAUOVA, D. *Antiflogistické hydrogély na báze lalie bielej | [Antiphlogistic hydrogels based on the white lily]. In CESKA A SLOVENSKA FARMACIE. ISSN 1210-7816, 2011, vol. 60, no. 4, p. 189-192, SCOPUS*
- ADCA56 JURÁNEK, Ivo - SUZUKI, Hiroshi - YAMAMOTO, Shozo. Affinities of various mammalian arachidonate lipoxygenases and cyclooxygenases for molecular oxygen as substrate. In *Biochimica et Biophysica Acta : molecular and cell biology of lipids*, 1999, vol.1436, p. 509-519. ISSN 1388-1981.
- Citácie:
- [1.1] MISHRA, A. - HAMID, A. - NEWMAN, E.A. *Oxygen modulation of neurovascular coupling in the retina. In PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. ISSN 0027-8424, 2011, vol. 108, no. 43, p. 17827-17831., WOS*
- ADCA57 KANG, Pilsoo - MECHREF, Yehia - KYSEĽOVÁ, Zuzana - GOETZ, John A. - NOVOTNÝ, Miloš V. Comparative glycomic mapping through quantitative permethylation and stable-isotope labeling. In *Analytical Chemistry*, 2007, vol. 79, no.16, p. 6064-6073. (5.646 - IF2006). (2007 - Current Contents). ISSN 0003-2700.
- Citácie:
- [1.1] BLANCHARD, V. - KAUP, M. - EIGEL, S. - RIECK, S. - SANDIG, V. - MARX, U. - TAUBER, R. - BERGER, M. *Quantitative MALDI-TOF-MS Using Stable-isotope Labeling: Application to the Analysis of N-glycans of Recombinant alpha-1 Antitrypsin Produced Using Different Culture Parameters. In JOURNAL OF CARBOHYDRATE CHEMISTRY. ISSN 0732-8303, 2011, vol. 30, no. 4-6, SI, p. 320-333., WOS*
 - [1.1] PICARIELLO, G. - MAMONE, G. - ADDEO, F. - FERRANTI, P. *The frontiers of mass spectrometry-based techniques in food allergenomics. In JOURNAL OF CHROMATOGRAPHY A. ISSN 0021-9673, 2011, vol. 1218, no. 42, p. 7386-7398., WOS*
 - [1.1] TOUSI, F. - HANCOCK, W.S. - HINCAPIE, M. *Technologies and strategies for glycoproteomics and glycomics and their application to clinical biomarker research. In ANALYTICAL METHODS. ISSN 1759-9660, 2011, vol. 3, no. 1, p. 20-32., WOS*
 - [1.1] WALKER, S.H. - BUDHATHOKI-UPRETY, J. - NOVAK, B.M. - MUDDIMAN, D.C. *Stable-Isotope Labeled Hydrophobic Hydrazide Reagents for the Relative Quantification of N-Linked Glycans by Electrospray Ionization Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2011, vol. 83, no. 17, p. 6738-6745., WOS*
 - [1.1] YAMADA, K. - KAKEHI, K. *Recent advances in the analysis of*

carbohydrates for biomedical use. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2011, vol. 55, no. 4, SI, p. 702-727., WOS

6. [1.1] ZHANG, P. - ZHANG, Y. - XUE, X.D. - WANG, C.J. - WANG, Z.F. - HUANG, L.J. *Relative quantitation of glycans using stable isotopic labels 1-(d0/d5) phenyl-3-methyl-5-pyrazolone by mass spectrometry. In ANALYTICAL BIOCHEMISTRY. ISSN 0003-2697, 2011, vol. 418, no. 1, p. 1-9., WOS*

7. [1.1] ZHANG, W. - WANG, H. - TANG, H.L. - YANG, P.Y. *Endoglycosidase-Mediated Incorporation of (18)O into Glycans for Relative Glycan Quantitation. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2011, vol. 83, no. 12, p. 4975-4981., WOS*

- ADCA58 KASSAI, Zoltán - KOPRDA, Vasil' - BAUEROVÁ, Katarína - HARANGOZÓ, Margita - BENDOVÁ, P. - BUJNOVÁ, Andrea - KASSAI, A. Penetration of radionuclides across the skin: Rat age dependent promethium permeation through skin in vitro. In Journal of Radioanalytical and Nuclear Chemistry-Articles, 2003, vol.258, no. 3, p. 669-672. (0.502 - IF2002). ISSN 0236-5731.

Citácie:

1. [1.2] BOLZINGER, M.A. - BOLOT, C. - GALY, G. - CHABANEL, A. - PELLETIER, J. - BRIACON, S. *Skin contamination by radiopharmaceuticals and decontamination strategies. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2010, vol. 402, no. 1-2, p. 44-49, SCOPUS*

- ADCA59 KAZIMÍROVÁ, Mária - JANČINOVÁ, Viera - PETRÍKOVÁ, Margita - TAKÁČ, Peter - LABUDA, Milan. An inhibitor of thrombin-stimulated blood platelet aggregation from the salivary glands of the hard tick *Amblyomma variegatum* (Acari : Ixodidae). In Experimental and Applied Acarology, 2002, vol. 28, no. 1, p. 97-105 / DOI: 10.1023/A:1025398100044. (1.096 - IF2001). ISSN 0168-8162.

Citácie:

1. [3] KINI R. *Manjunatha et al. (eds) Toxins and Hemostasis: From Bench to Bedside. Springer Dodrecht Heidelberg London New York 2010 797 pp. ISBN:978-90-481-9294-6, DOI:10.1007/978-90-481-9295-3*

- ADCA60 KETTMANN, Viktor - DŘÍMAL, Ján - SVĚTLÍK, Ján. Radioligand binding studies on some dihydropyridine analogues as probes of the dihydropyridine receptor. In Pharmazie : an international journal of pharmaceutical sciences, 1996, jahrg. 51, hft.10, s. 747-750. (0.466 - IF1995). (1996 - Current Contents). ISSN 0031-7144.

Citácie:

1. [1.1] PASUNOOTI, K.K. - CHAI, H. - JENSEN, C.N. - GORITYALA, B.K. - WANG, S.M. - LIU, X.W. *A microwave-assisted, copper-catalyzed three-component synthesis of dihydropyrimidinones under mild conditions. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2011, vol. 52, no. 1, p. 80-84., WOS*

- ADCA61 KETTMANN, Viktor - KOŠTÁLOVÁ, Daniela - JANTOVÁ, Soňa - ČERNÁKOVÁ, Marta - DŘÍMAL, Ján. In vitro cytotoxicity of berberine against HeLa and L1210 cancer cell lines. In Pharmazie, 2004, jahrg. 59, s. 548 - 550. (0.696 - IF2003). (2004 - Current Contents). ISSN 0031-7144.

Citácie:

1. [1.1] DIOGO, C.V. - MACHADO, N.G. - BARBOSA, I.A. - SERAFIM, T.L. - BURGEIRO, A. - OLIVEIRA, P.J. *Berberine as a Promising Safe Anti-Cancer Agent - Is there a Role for Mitochondria?. In CURRENT DRUG TARGETS. ISSN 1389-4501, 2011, vol. 12, no. 6, p. 850-859., WOS*

2. [1.1] HUSINEC, S. - SAVIC, V. - SIMIC, M. - TESEVIC, V. - VIDOVIC, D. *Annulations of isoquinoline and beta-carboline ring systems: synthesis of 8-oxoprotoberberine derivatives. In TETRAHEDRON LETTERS. ISSN 0040-4039,*

2011, vol. 52, no. 21, p. 2733-2736., WOS

3. [1.1] JI, H.F. - SHEN, L. Berberine: A Potential Multipotent Natural Product to Combat Alzheimer's Disease. In MOLECULES. ISSN 1420-3049, 2011, vol. 16, no. 8, p. 6732-6740., WOS

4. [1.1] YAN, K.Q. - ZHANG, C. - FENG, J.B. - HOU, L.F. - YAN, L. - ZHOU, Z.L. - LIU, Z.X. - LIU, C. - FAN, Y.D. - ZHENG, B.Z. - XU, Z.H. Induction of G1 cell cycle arrest and apoptosis by berberine in bladder cancer cells. In EUROPEAN JOURNAL OF PHARMACOLOGY. ISSN 0014-2999, 2011, vol. 661, no. 1-3, p. 1-7., WOS

5. [1.1] ZHU, F.Q. - WU, F.J. - MA, Y. - LIU, G.J. - LI, Z. - SUN, Y.A. - PEI, Z. Decrease in the production of beta-amyloid by berberine inhibition of the expression of beta-secretase in HEK293 cells. In BMC NEUROSCIENCE. ISSN 1471-2202, 2011, vol. 12, Article Number: 125, DOI: 10.1186/1471-2202-12-125, WOS

6. [1.2] DUNNICK, J.K. - SINGH, B. - NYSKA, A. - PECKHAM, J. - KISSLING, G.E. - SANDERS, J.M. Investigating the potential for toxicity from long-term use of the herbal products, goldenseal and milk thistle. In TOXICOLOGIC PATHOLOGY. ISSN 0192-6233, 2011, vol. 39, no. 2, p. 398-409, SCOPUS

ADCA62

KIM, Seong Hwan - VLKOLINSKÝ, Roman - CAIRNS, Nigel - FOUNTOLAKIS, Michael - LUBEC, Gert. The reduction of NADH ubiquinone oxidoreductase 24- and 75-kDa subunits in brains of patients with Down syndrome and Alzheimer's disease. In Life Sciences, 2001, vol. 68, no. 24, p. 2741-2750. (1.808 - IF2000). (2001 - Current Contents). ISSN 0024-3205.

Citácie:

1. [1.1] ENGLISH, J.A. - PENNINGTON, K. - DUNN, M.J. - COTTER, D.R. The Neuroproteomics of Schizophrenia. In BIOLOGICAL PSYCHIATRY. ISSN 0006-3223, 2011, vol. 69, no. 2, p. 163-172., WOS

2. [1.1] JU, Y.F. - YANG, J.J. - LIU, R. - LIU, X.L. - DU, X.M. - LIU, L. - CHEN, Z.C. - CHI, J. - LIU, S.E. - GAO, Y.A. - GAO, J.E. - JIAO, S.C. - HE, F.C. - SUN, Q.H. Antigenically dominant proteins within the human liver mitochondrial proteome identified by monoclonal antibodies. In SCIENCE CHINA-LIFE SCIENCES. ISSN 1674-7305, 2011, vol. 54, no. 1, p. 16-24., WOS

3. [1.1] LASAGNA-REEVES, C.A. - CASTILLO-CARRANZA, D.L. - SENGUPTA, U. - CLOS, A.L. - JACKSON, G.R. - KAYED, R. Tau oligomers impair memory and induce synaptic and mitochondrial dysfunction in wild-type mice. In MOLECULAR NEURODEGENERATION. ISSN 1750-1326, 2011, vol. 6., WOS

4. [1.1] LIU, H.Y. - LIAO, P.C. - CHUANG, K.T. - KAO, M.C. Mitochondrial targeting of human NADH dehydrogenase (ubiquinone) flavoprotein 2 (NDUFV2) and its association with early-onset hypertrophic cardiomyopathy and encephalopathy. In JOURNAL OF BIOMEDICAL SCIENCE. ISSN 1021-7770, 2011, vol. 18., WOS

ADCA63

KIM, Seong Hwan - VLKOLINSKÝ, Roman - CAIRNS, Nigel - LUBEC, Gert. Decreased levels of complex III core protein 1 and complex V β chain in brains from patients with Alzheimer's disease and Down syndrome. In Cellular and Molecular Life Sciences : (CMLS), 2000, vol. 57, no. 12, p.1810-1816. (2000 - Current Contents). ISSN 1420-682X.

Citácie:

1. [1.1] BUTTERFIELD, D.A. - REED, T. - SULTANA, R. Roles of 3-nitrotyrosine- and 4-hydroxynonenal-modified brain proteins in the progression and pathogenesis of Alzheimer's disease. In FREE RADICAL RESEARCH. ISSN 1071-5762, 2011, vol. 45, no. 1, p. 59-72., WOS

2. [1.1] REED, T.T. Lipid peroxidation and neurodegenerative disease. In FREE

RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 7, p. 1302-1319., WOS

3. [1.1] TAURINES, R. - DUDLEY, E. - GRASSL, J. - WARNKE, A. - GERLACH, M. - COOGAN, A.N. - THOME, J. *Proteomic research in psychiatry. In JOURNAL OF PSYCHOPHARMACOLOGY. ISSN 0269-8811, 2011, vol. 25, no. 2, p. 151-196., WOS*

ADCA64 KNEZL, Vladimír - BAČOVÁ, Barbara - KOLENOVÁ, Lucia - MITAŠÍKOVÁ, Marcela - WEISMANN, Peter - DŘÍMAL, Ján - TRIBULOVÁ, Narcis. Distinct lethal arrhythmias susceptibility is associated with sex-related difference in myocardial connexin-43 expression. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 798-801. (1.443 - IF2007). ISSN 0172-780X.

Citácie:

1. [1.1] STAUFFER, B.L. - SOBUS, R.D. - SUCHAROV, C.C. *Sex Differences in Cardiomyocyte Connexin43 Expression. In JOURNAL OF CARDIOVASCULAR PHARMACOLOGY. ISSN 0160-2446, 2011, vol. 58, no. 1, p. 32-39., WOS*

2. [1.1] THOMAS, N.M. - JASMIN, J.F. - LISANTI, M.P. - IACOBAS, D.A. *Sex differences in expression and subcellular localization of heart rhythm determinant proteins. In BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. ISSN 0006-291X, 2011, vol. 406, no. 1, p. 117-122., WOS*

ADCA65 KOGAN, Grigorij - ŠOLTĚS, Ladislav - STERN, Robert - GEMEINER, Peter. Hyaluronic acid: a natural biopolymer with a broad range of biomedical and industrial applications. In *Biotechnology Letters*, 2007, vol. 29, no. 1, p.17-25. (1.134 - IF2006). (2007 - Current Contents). ISSN 0141-5492.

Citácie:

1. [1.1] AUZELY-VELTY, R. *Self-assembling polysaccharide systems based on cyclodextrin complexation: Synthesis, properties and potential applications in the biomaterials field. In COMPTES RENDUS CHIMIE. ISSN 1631-0748, 2011, vol. 14, no. 2-3, p. 167-177., WOS*

2. [1.1] BAE, M.S. - YANG, D.H. - LEE, J.B. - HEO, D.N. - KWON, Y.D. - YOUN, I.C. - CHOI, K. - HONG, J.H. - KIM, G.T. - CHOI, Y.S. - HWANG, E.H. - KWON, I.K. *Photo-cured hyaluronic acid-based hydrogels containing simvastatin as a bone tissue regeneration scaffold. In BIOMATERIALS. ISSN 0142-9612, 2011, vol. 32, no. 32, p. 8161-8171., WOS*

3. [1.1] CHEN, W.C. - WEI, Y.H. - HUANG, J.B. - CHU, I.M. - YAO, C.L. *Biological effects of oligosaccharide chondroitin sulfate c on human articular chondrocytes. In BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS. ISSN 1016-2372, 2011, vol. 23, no. 3, p. 245-252., WOS*

4. [1.1] EISNER, A. - LUOH, S.W. *Breast Cancer Medications and Vision: Effects of Treatments for Early-stage Disease. In CURRENT EYE RESEARCH. ISSN 0271-3683, 2011, vol. 36, no. 10, p. 867-885., WOS*

5. [1.1] FERGUSON, E.L. - ROBERTS, J.L. - MOSELEY, R. - GRIFFITHS, P.C. - THOMAS, D.W. *Evaluation of the physical and biological properties of hyaluronan and hyaluronan fragments. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2011, vol. 420, no. 1, p. 84-92., WOS*

6. [1.1] IZAWA, N. - SERATA, M. - SONE, T. - OMASA, T. - OHTAKE, H. *Hyaluronic acid production by recombinant Streptococcus thermophilus. In JOURNAL OF BIOSCIENCE AND BIOENGINEERING. ISSN 1389-1723, 2011, vol. 111, no. 6, p. 665-670., WOS*

7. [1.1] KREMER, S. - CAMPILLO, C. - QUEMENEUR, F. - RINAUDO, M. - PEPIN-DONAT, B. - BROCHARD-WYART, F. *Nanotubes from asymmetrically decorated vesicles. In SOFT MATTER. ISSN 1744-683X, 2011, vol. 7, no. 3, p. 946-951., WOS*

8. [1.1] LENNON, F.E. - SINGLETON, P.A. Role of hyaluronan and hyaluronan-binding proteins in lung pathobiology. In *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*. ISSN 1040-0605, 2011, vol. 301, no. 2, p. L137-L147., WOS
9. [1.1] LI, Y.P. - GU, B. - PI, X.F. - GONG, Y.C. - XIONG, X.Y. - WU, G.J. - LI, Z.L. Enhanced the insulin secretion of HIT-T15 cells by hyaluronic acid-coating involves cytosolic free $[Ca^{2+}]_i$ response. In *APPLICATIONS OF ENGINEERING MATERIALS, PTS 1-4*. ISSN 1022-6680, 2011, vol. 287-290, Part 1-4, p. 1960-1965., WOS
10. [1.1] LIU, L. - LIU, Y.F. - LI, J.H. - DU, G.C. - CHEN, J. Microbial production of hyaluronic acid: current state, challenges, and perspectives. In *MICROBIAL CELL FACTORIES*. ISSN 1475-2859, 2011, vol.10, art. numb. 99, DOI: 10.1186/1475-2859-10-99, WOS
11. [1.1] MAHOR, S. - COLLIN, E. - DASH, B.C. - PANDIT, A. Controlled Release of Plasmid DNA from Hyaluronan Nanoparticles. In *CURRENT DRUG DELIVERY*. ISSN 1567-2018, 2011, vol. 8, no. 4, p. 354-362., WOS
12. [1.1] MARTENS, A.A. - BESSELING, N.A.M. - RUEB, S. - SUDHOLTER, E.J.R. - SPAINK, H.P. - DE SMET, L.C.P.M. Random Scission of Polymers: Numerical Simulations, and Experiments on Hyaluronan Hydrolysis. In *MACROMOLECULES*. ISSN 0024-9297, 2011, vol. 44, no. 8, p. 2559-2567., WOS
13. [1.1] MAUCK, R.L. - BURDICK, J.A. Engineering Cartilage Tissue. In *TISSUE ENGINEERING: FROM LAB TO CLINIC*. Berlin, Springer 2011, p. 493-520. ISBN: 978-3-642-02823-6, WOS
14. [1.1] MORFIN, I. - BUHLER, E. - COUSIN, F. - GRILLO, I. - BOUE, F. Rodlike Complexes of a Polyelectrolyte (Hyaluronan) and a Protein (Lysozyme) Observed by SANS. In *BIOMACROMOLECULES*. ISSN 1525-7797, 2011, vol. 12, no. 4, p. 859-870., WOS
15. [1.1] MURANO, E. - PERIN, D. - KHAN, R. - BERGAMIN, M. Hyaluronan: From Biomimetic to Industrial Business Strategy. In *NATURAL PRODUCT COMMUNICATIONS*. ISSN 1934-578X, 2011, vol. 6, no. 4, p. 555-572., WOS
16. [1.1] NADERI, H. - MATIN, M.M. - BAHRAMI, A.R. Critical Issues in Tissue Engineering: Biomaterials, Cell Sources, Angiogenesis, and Drug Delivery Systems. In *JOURNAL OF BIOMATERIALS APPLICATIONS*. ISSN 0885-3282, 2011, vol. 26, no. 4, p. 383-417., WOS
17. [1.1] OLDINSKI, R.A. - RUCKH, T.T. - STAIGER, M.P. - POPAT, K.C. - JAMES, S.P. Dynamic mechanical analysis and biomineralization of hyaluronan-polyethylene copolymers for potential use in osteochondral defect repair. In *ACTA BIOMATERIALIA*. ISSN 1742-7061, 2011, vol. 7, no. 3, p. 1184-1191., WOS
18. [1.1] PARK, S.H. - CHO, H. - GIL, E.S. - MANDAL, B.B. - MIN, B.H. - KAPLAN, D.L. Silk-Fibrin/Hyaluronic Acid Composite Gels for Nucleus Pulposus Tissue Regeneration. In *TISSUE ENGINEERING PART A*. ISSN 1937-3341, 2011, vol. 17, no. 23-24, p. 2999-3009., WOS
19. [1.1] PATIL, K.P. - PATIL, D.K. - CHAUDHARI, B.L. - CHINCHOLKAR, S.B. Production of hyaluronic acid from *Streptococcus zooepidemicus* MTCC 3523 and its wound healing activity. In *JOURNAL OF BIOSCIENCE AND BIOENGINEERING*. ISSN 1389-1723, 2011, vol. 111, no. 3, p. 286-288., WOS
20. [1.1] PIRES, A.M.B. - SANTANA, M.H.A. Rheological Aspects of Microbial Hyaluronic Acid. In *JOURNAL OF APPLIED POLYMER SCIENCE*. ISSN 0021-8995, 2011, vol. 122, no. 1, p. 126-133., WOS
21. [1.1] RESTAINO, O.F. - CIMINI, D. - DE ROSA, M. - CATAPANO, A. - DE

- ROSA, M. - SCHIRALDI, C. High cell density cultivation of *Escherichia coli* K4 in a microfiltration bioreactor: a step towards improvement of chondroitin precursor production. In MICROBIAL CELL FACTORIES. ISSN 1475-2859, 2011, vol. 10. Art. Numb.10, DOI: 10.1186/1475-2859-10-10, WOS
22. [1.1] SANTORO, S. - RUSSO, L. - ARGENZIO, V. - BORZACCHIELLO, A. Rheological properties of cross-linked hyaluronic acid dermal fillers. In JOURNAL OF APPLIED BIOMATERIALS & BIOMECHANICS. ISSN 1722-6899, 2011, vol. 9, no. 2, p. 127-136., WOS
23. [1.1] SCHANTE, C. - ZUBER, G. - HERLIN, C. - VANDAMME, T.F. Synthesis of N-alanyl-hyaluronamide with high degree of substitution for enhanced resistance to hyaluronidase-mediated digestion. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 86, no. 2, p. 747-752., WOS
24. [1.1] SCHANTE, C.E. - ZUBER, G. - HERLIN, C. - VANDAMME, T.F. Chemical modifications of hyaluronic acid for the synthesis of derivatives for a broad range of biomedical applications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 85, no. 3, p. 469-489., WOS
25. [1.1] SCHIRALDI, C. - CARCARINO, I.L. - ALFANO, A. - RESTAINO, O.F. - PANARIELLO, A. - DE ROSA, M. Purification of chondroitin precursor from *Escherichia coli* K4 fermentation broth using membrane processing. In BIOTECHNOLOGY JOURNAL. ISSN 1860-6768, 2011, vol. 6, no. 4, p. 410-419., WOS
26. [1.1] ZHANG, F. - HE, C.L. - CAO, L.J. - FENG, W. - WANG, H.S. - MO, X.M. - WANG, J.W. Fabrication of gelatin-hyaluronic acid hybrid scaffolds with tunable porous structures for soft tissue engineering. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2011, vol. 48, no. 3, p. 474-481., WOS
27. [1.1] ZHU, W.L. - ARTEMOV, D. Biocompatible blood pool MRI contrast agents based on hyaluronan. In CONTRAST MEDIA & MOLECULAR IMAGING. ISSN 1555-4309, 2011, vol. 6, no. 2, p. 61-68., WOS
28. [1.2] ARCHER, D. - RANGASAMY, D. Highlighting reviews. In Biotechnology Letters. ISSN 0141-5492, 2011, vol. 33, no. 3, p. 431-432, SCOPUS
29. [1.2] Desimone, MF (Desimone, Martín Federico); De Marzi, MC (De Marzi, Mauricio C); Alvarez, GS (Alvarez, Gisela Solange); Mathov, I (Mathov, Irina); Diaz, LE (Diaz, Luís Eduardo); Malchiodi, EL (Malchiodi, Emilio Luis) Source: JOURNAL OF MATERIALS CHEMISTRY Volume: 21 Issue: 36 Pages: 13865-13872, SCOPUS
30. [1.2] IANNITTI, T. - LODI, D. - PALMIERI, B. Intra-articular injections for the treatment of osteoarthritis: Focus on the clinical use of hyaluronic acid. In DRUGS IN R AND D. ISSN 1174-5886, 2011, vol. 11, no. 1, p. 13-27, SCOPUS
31. [1.2] JAGADEESWARA REDDY, K. - KARUNAKARAN, K.T. - SAMBASIVA RAO, K.R.S. Enhanced hyaluronic acid production by a mutant strain, 3523-7 of *Streptococcus zooepidemicus*. In CURRENT TRENDS IN BIOTECHNOLOGY AND PHARMACY. ISSN 0973-8916, 2011, vol. 5, no. 4, p. 1473-1479, SCOPUS
32. [1.2] LIU, Y. - SUN, J. - CAO, W. - YANG, J. - LIAN, H. - LI, X. - SUN, Y. - WANG, Y. - WANG, S. - HE, Z. Dual targeting folate-conjugated hyaluronic acid polymeric micelles for paclitaxel delivery. In INTERNATIONAL JOURNAL OF PHARMACEUTICS. ISSN 0378-5173, 2011, vol. 421, no. 1, p. 160-169, SCOPUS
33. [1.2] PATIL, K.P. - KAMALJA, K.K. - CHAUDHARI, B.L. Optimization of medium components for hyaluronic acid production by *Streptococcus zooepidemicus* MTCC 3523 using a statistical approach. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 86, no. 4, p. 1573-1577, SCOPUS

- ADCA66 KOGAN, Grigorij - STAŠKO, Andrej - BAUEROVÁ, Katarína - POLOVKA, Martin - ŠOLTĚS, Ladislav - BREZOVÁ, Vlasta - NAVAROVÁ, Jana - MIHALOVÁ, Danica. Antioxidant properties of yeast (1 - 3) - β - D - glucan studied by electron paramagnetic resonance spectroscopy and its activity in the adjuvant arthritis. In Carbohydrate Polymers : scientific and technological aspects of industrially important polysaccharides. - Oxford : Elsevier, 2005, vol. 61, no. 1, p.18-28. (1.710 - IF2004). (2005 - Current Contents). ISSN 0144-8617.
- Citácie:
1. [1.1] BZDUCHA-WROBEL, A. - BLAZEJAK, S. *Antitoxic and antimicrobial properties of the yeast cell wall components*. In MEDYCYNÁ WETERYNARYJNA. ISSN 0025-8628, 2011, vol. 67, no. 4, p. 244-249., WOS
 2. [1.1] MAGNANI, M. - CASTRO-GOMEZ, R.J.H. - MORI, M.P. - KUASNE, H. - GREGORIO, E.P. - LIBOS, F. - COLUS, I.M.D. *Protective effect of carboxymethyl-glucan (CM-G) against DNA damage in patients with advanced prostate cancer*. In GENETICS AND MOLECULAR BIOLOGY. ISSN 1415-4757, 2011, vol. 34, no. 1, p. 131-135., WOS
 3. [1.1] THONDRE, P.S. - RYAN, L. - HENRY, C.J.K. *Barley beta-glucan extracts as rich sources of polyphenols and antioxidants*. In FOOD CHEMISTRY. ISSN 0308-8146, 2011, vol. 126, no. 1, p. 72-77., WOS
 4. [1.1] TUKMECHI, A. - ANDANI, H.R.R. - MANAFFAR, R. - SHEIKHZADEH, N. *Dietary administration of beta-mercapto-ethanol treated Saccharomyces cerevisiae enhanced the growth, innate immune response and disease resistance of the rainbow trout, Oncorhynchus mykiss*. In FISH & SHELLFISH IMMUNOLOGY. ISSN 1050-4648, 2011, vol. 30, no. 3, p. 923-928., WOS
 5. [1.1] ZHENG, W.F. - ZHANG, M.M. - ZHAO, Y.X. - MIAO, K.J. - PAN, S.Y. - CAO, F. - DAI, Y.C. *Analysis of Antioxidant Metabolites by Solvent Extraction from Sclerotia of Inonotus obliquus (Chaga)*. In PHYTOCHEMICAL ANALYSIS. ISSN 0958-0344, 2011, vol. 22, no. 2, p. 95-102., WOS
 6. [1.2] SALUK-JUSZCZAK, J. - KROLEWSKA, K. - WACHOWICZ, B. *(1 \rightarrow 3)- β -D-Glucan inhibits a dual mechanism of peroxynitrite stroke*. In INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES. ISSN 0141-8130, 2011, vol. 48, no. 3, p. 488-494, SCOPUS
 7. [3] MAGNANI, M. - CASTRO-GOMEZ, R.J.H. - MORI, M.P. - KUASNE, H. - GREGORIO, E.P. - LIBOS, F. Jr. - DE SYLOS COLUS, I.M. *Protective effect of carboxymethyl-glucan (CM-G) against DNA damage in patients with advanced prostate cancer*. In GENETICS AND MOLECULAR BIOLOGY (online). ISSN 1415-4757, 2011, vol. 34, no. 1, p. 131-135
 8. [3] PERECKO, T. - DRABIKOVA, K. - NOSAL, R. - HARMATHA, J. - JANCINOVA, V. *Pharmacological modulation of activated neutrophils by natural polyphenols*. In Recent Research Developments in Pharmacology. Vol. 2. Trivandrum, Research Signpost 2011. P. 27-67. ISBN 978-81-308-0455-2
- ADCA67 KONDO, Takashi - MIŠÍK, Vladimír - RIESZ, Peter. Effect of gas-containing microspheres and echo contrast agents on free radical formation by ultrasound. In Free Radical Biology and Medicine. - Oxford : Elsevier Science, 1998, vol. 25, no. 4/5, p. 605-612. (3.528 - IF1997). (1998 - Current Contents). ISSN 0891-5849.
- Citácie:
1. [1.1] BRUJAN, E.A. *Cardiovascular Cavitation*. In CAVITATION IN NON-NEWTONIAN FLUIDS: WITH BIOMEDICAL AND BIOENGINEERING APPLICATIONS. 2011, p. 175-223., WOS
 2. [1.1] DU, J. - SHI, Q.S. - SUN, Y. - LIU, P.F. - ZHU, M.J. - DU, L.F. - DUAN, Y.R. *Enhanced delivery of monomethoxypoly(ethylene glycol)-poly(lactic-co-glycolic acid)-poly L-lysine nanoparticles loading platelet-derived growth factor*

- BB small interfering RNA by ultrasound and/or microbubbles to rat retinal pigment epithelium cells. In JOURNAL OF GENE MEDICINE. ISSN 1099-498X, 2011, vol. 13, no. 6, p. 312-323., WOS*
3. [1.1] HE, N.A. - HU, J. - LIU, H.Y. - ZHU, T. - HUANG, B. - WANG, X.Q. - WU, Y. - WANG, W.P. - QU, D. Enhancement of Vancomycin Activity against Biofilms by Using Ultrasound-Targeted Microbubble Destruction. In *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. ISSN 0066-4804, 2011, vol. 55, no. 11, p. 5331-5337., WOS*
- ADCA68 KOPRDA, Vasil' - ŠČASNÁR, Vladimír. Isolation of ¹³⁷Cs from biological material contaminated by a mixture of radionuclides. In *Chemické zvesti*, 1980, vol. 34, no. 4, p. 480-496. ISSN 0366-6352.
- Citácie:
1. [1.1] SISTKOVA, N. - KOLAROVA, M. - LUCANIKOVA, M. - BELOHRADSKY, M. - RAIS, J. Liquid-Liquid Extractions of Microamounts of (¹³⁷)Cs and (⁸⁵)Sr with Chlorinated Dicarbolide and Crown Ethers into Mixed Dodecanenitrile/n-dodecane Nonpolar Diluent. In *SEPARATION SCIENCE AND TECHNOLOGY. ISSN 0149-6395, 2011, vol. 46, no. 14, p. 2174-2182., WOS*
- ADCA69 KOVÁCS, Peter - JURÁNEK, Ivo - STANKOVIČOVÁ, Tatiana - ŠVEC, Pavel. Lipid peroxidation during acute stress. In *Pharmazie*, 1996, jahrg. 51, hft. 1, s. 51-53. (0.466 - IF1995). (1996 - Current Contents). ISSN 0031-7144.
- Citácie:
1. [1.1] KOJIC, Z. - SCEPANOVIC, L.J. - KOSTIC, T. Immobilization stress reduces oxygen consumption of the isolated interstitial rats' testes cells. In *ACTA PHYSIOLOGICA HUNGARICA. ISSN 0231-424X, 2011, vol. 98, no. 1, p. 45-50., WOS*
2. [1.2] EDER, B.V.A. - UBERALL, F. Do chronic fatigue syndrome and atherosclerosis share common molecular risk factors?. In *SCHWEIZERISCHE ZEITSCHRIFT FÜR GANZHEITSMEDIZIN. ISSN 1015-0684, 2011, vol. 23, no. 2, p. 109-120, SCOPUS*
3. [1.2] MIZRAK, A., ERKUTLU, I., ALPTEKIN, M., SEN, E., GEYIK, M., GOK, A., ONER, U. Efficacy of fentanyl and/or lidocaine on total antioxidants and total oxidants during craniotomy. In *CLINICAL MEDICINE AND RESEARCH. ISSN 1539-4182, 2011, vol. 9, no. 2, p. 82-87, SCOPUS*
4. [3] DEVAKI, M. - NIRUPAMA, R. - YAJURVEDI, H.N. Reduced antioxidant status for prolonged period due to repeated stress exposure in rat. In *JOURNAL OF STRESS PHYSIOLOGY & BIOCHEMISTRY. ISSN 1997-0838, 2011, vol. 7, no. 2, pp. 139-147*
- ADCA70 KRAMER, Jay H. - DICKENS, B.F. - MIŠÍK, Vladimír - WEGLIICKI, William B. Phospholipid hydroperoxides are precursors of lipid alkoxyl radicals produced from anoxia reoxygenated endothelial cells. In *Journal of molecular and cellular cardiology*, 1995, vol. 27 n. 1, p. 371-381. (3.008 - IF1994). (1995 - Current Contents). ISSN 0022-2828.
- Citácie:
1. [1.2] RHODES, C.J. Electron spin resonance. Part one: A diagnostic method in the biomedical sciences. In *SCIENCE PROGRESS. ISSN 0036-8504, 2011, vol. 94, no. 1, p. 16-96, SCOPUS*
- ADCA71 KRAMER, Jay H. - MIŠÍK, Vladimír - WEGLIICKI, William B. Magnesium-deficiency potentiates free radical production associated with postischemic injury to rat hearts: vitamin E affords protection. In *Free Radical Biology and Medicine*, 1994, vol. 16, no. 6, p. 713-723. ISSN 0891-5849.
- Citácie:
1. [1.1] HEIDARIANPOUR, A. - SADEGHIAN, E. - GORZI, A. - NAZEM, F. The

- Influence of Oral Magnesium Sulfate on Skin Microvasculature Blood Flow in Diabetic Rats. In BIOLOGICAL TRACE ELEMENT RESEARCH. ISSN 0163-4984, 2011, vol. 143, no. 1, p. 344-350., WOS*
2. [1.1] STEWART, A.J. Magnesium Disorders in Horses. In VETERINARY CLINICS OF NORTH AMERICA-EQUINE PRACTICE. ISSN 0749-0739, 2011, vol. 27, no. 1, p. 149-+, WOS
3. [1.2] KIM, J.E. - JEON, J.P. - NO, H.C. - CHOI, J.H. - LEE, S.H. - RYU, K.H. - KIM, E.S. The effects of magnesium pretreatment on reperfusion injury during living donor liver transplantation. In KOREAN JOURNAL OF ANESTHESIOLOGY. ISSN 2005-6419, 2011, vol. 60, no. 6, p. 408-415, SCOPUS
- ADCA72 KRISTOVÁ, Viera - LÍŠKOVÁ, Silvia - SOTNÍKOVÁ, Ružena - VOJTKO, Robert - KURTANSKÝ, Alexander. Sulodexide improves endothelial dysfunction in streptozotocin-induced diabetes in rats. In Physiological Research, 2008, vol. 57, iss. 3, p. 491-494. (1.505 - IF2007). (2008 - Current Contents). ISSN 0862-8408.
- Citácie:
1. [1.1] OKUDAN, N. - ATALIK, K. E. Nurullahoglu - GOEKBEL, H. - CANBILEN, A. - KARA, I. Alpha Lipoic Acid Treatment Improved Endothelium-dependent Relaxation in Diabetic Rat Aorta. In YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN. ISSN 0031-6903, 2011, vol. 131, no. 5, p. 739-744., WOS
2. [1.1] SUMINSKA-JASINSKA, K. - POLUBINSKA, A. - CISZEWICZ, M. - MIKSTACKI, A. - ANTONIEWICZ, A. - BREBOROWICZ, A. Sulodexide reduces senescence-related changes in human endothelial cells. In MEDICAL SCIENCE MONITOR. ISSN 1234-1010, 2011, vol. 17, no. 4, p. CR222-CR226., WOS
3. [1.2] KANCHANA, G. - SHYNI, W.J. - RAJADURAI, M. - PERIASAMY, R. Evaluation of antihyperglycemic effect of sinapic acid in normal and streptozotocin-induced diabetes in albino rats. In GLOBAL JOURNAL OF PHARMACOLOGY. ISSN 1992-0075, 2011, vol. 5, no. 1, p. 33-39, SCOPUS
4. [1.2] KAUR, G. - KAMBOJ, P. - KALIA, A.N. Antidiabetic and anti-hypercholesterolemic effects of aerial parts of *Sida cordifolia* Linn. on Streptozotocin-induced diabetic rats. In INDIAN JOURNAL OF NATURAL PRODUCTS AND RESOURCES. ISSN 0976-0504, 2011, vol. 2, no. 4, p. 428-434, SCOPUS
5. [1.2] MARIAPPAN, G. - SAHA, B.P. - DATTA, S. - KUMAR, D. - HALDAR, P.K. Design, synthesis and antidiabetic evaluation of oxazolone derivatives. In JOURNAL OF CHEMICAL SCIENCES. ISSN 0974-3626, 2011, vol. 123, no. 3, p. 335-341, SCOPUS
6. [1.2] VORONKOV, A.V. - TYURENKOV, I.N. Effect of cardiovascular drugs on vasodilating endothelial function in animals with experimental deficiency of sex hormones. In EKSPERIMENTAL'NAYA I KLINICHESKAYA FARMAKOLOGIYA. ISSN 0869-2092, 2011, vol. 74, no. 10, p. 23-25, SCOPUS
- ADCA73 KUKAN, Marián - WOLF, T.F. - MELUŠ, M. - BEZEK, Štefan. Characterization of nonlinear elimination of the xanthine-related drug ethimizol in 3-methylcholanthrene-induced rat liver by the parallel-tube model. In Drug Metabolism and Disposition, 1993, vol. 21, no. 3, p. 547-550. ISSN 0090-9556.
- Citácie:
1. [1.1] YAMAGUCHI, K. - KATO, M. - SUZUKI, M. - ASANUMA, K. - ASO, Y. - IKEDA, S. - ISHIGAI, M. Pharmacokinetic and Pharmacodynamic Modeling of the Effect of an Sodium-Glucose Cotransporter Inhibitor, Phlorizin, on Renal Glucose Transport in Rats. In DRUG METABOLISM AND DISPOSITION. ISSN 0090-9556, 2011, vol. 39, no. 10, p. 1801-1807., WOS
- ADCA74 KYSELOVÁ, Zuzana - MECHREF, Yehia - KANG, Pilsoo - GOETZ, John A. -

DOBROLECKI, Lacey E. - SLEDGE, George W. - SCHNAPER, Lauren - HICKEY, Robert J. - MALKAS, Linda H. - NOVOTNÝ, Miloš V. Breast cancer diagnosis and prognosis through quantitative measurements of serum glycan profiles. In *Clinical Chemistry*, 2008, vol. 54, no. 7, p.1166-1175. (4.803 - IF2007). ISSN 0009-9147.

Citácie:

1. [1.1] BONES, J. - BYRNE, J.C. - O'DONOGHUE, N. - MCMANUS, C. - SCAIFE, C. - BOISSIN, H. - NASTASE, A. - RUDD, P.M. Glycomic and Glycoproteomic Analysis of Serum from Patients with Stomach Cancer Reveals Potential Markers Arising from Host Defense Response Mechanisms. In *JOURNAL OF PROTEOME RESEARCH*. ISSN 1535-3893, 2011, vol. 10, no. 3, p. 1246-1265., WOS
2. [1.1] DE LEOZ, M.L.A. - YOUNG, L.J.T. - AN, H.J. - KRONEWITTER, S.R. - KIM, J.H. - MIYAMOTO, S. - BOROWSKY, A.D. - CHEW, H.K. - LEBRILLA, C.B. High-Mannose Glycans are Elevated during Breast Cancer Progression. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2011, vol. 10, no. 1., WOS
3. [1.1] DIXON, R.B. - BEREMAN, M.S. - PETITTE, J.N. - HAWKRIDGE, A.M. - MUDDIMAN, D.C. One-year plasma N-linked glycome intra-individual and inter-individual variability in the chicken model of spontaneous ovarian adenocarcinoma. In *INTERNATIONAL JOURNAL OF MASS SPECTROMETRY*. ISSN 1387-3806, 2011, vol. 305, no. 2-3, SI, p. 79-86., WOS
4. [1.1] FRY, S.A. - AFROUGH, B. - LOMAX-BROWNE, H.J. - TIMMS, J.F. - VELENTZIS, L.S. - LEATHEM, A.J.C. Lectin microarray profiling of metastatic breast cancers. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2011, vol. 21, no. 8, p. 1060-1070., WOS
5. [1.1] LI, X.M. - GAO, J.Q. - LIU, D.J. - WANG, Z.X. Studying the interaction of carbohydrate-protein on the dendrimer-modified solid support by microarray-based plasmon resonance light scattering assay. In *ANALYST*. ISSN 0003-2654, 2011, vol. 136, no. 20, p. 4301-4307., WOS
6. [1.1] NICHOLLS, J.M. - FRANCIS, G.D. Anatomical pathology is dead? Long live anatomical pathology. In *PATHOLOGY*. ISSN 0031-3025, 2011, vol. 43, no. 6, p. 635-641., WOS
7. [1.1] PABST, M. - ALTMANN, F. Glycan analysis by modern instrumental methods. In *PROTEOMICS*. ISSN 1615-9853, 2011, vol. 11, no. 4, p. 631-643., WOS
8. [1.1] SALDOVA, R. - FAN, Y. - FITZPATRICK, J.M. - WATSON, R.W.G. - RUDD, P.M. Core fucosylation and alpha 2-3 sialylation in serum N-glycome is significantly increased in prostate cancer comparing to benign prostate hyperplasia. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2011, vol. 21, no. 2, p. 195-205., WOS
9. [1.1] SALDOVA, R. - REUBEN, J.M. - HAMID, U.M.A. - RUDD, P.M. - CRISTOFANILLI, M. Levels of specific serum N-glycans identify breast cancer patients with higher circulating tumor cell counts. In *ANNALS OF ONCOLOGY*. ISSN 0923-7534, 2011, vol. 22, no. 5, p. 1113-1119., WOS
10. [1.1] TELFORD, J.E. - DOHERTY, M.A. - THARMALINGAM, T. - RUDD, P.M. Discovering new clinical markers in the field of glycomics. In *BIOCHEMICAL SOCIETY TRANSACTIONS*. ISSN 0300-5127, 2011, vol. 39, Part 1, p. 327-330., WOS
11. [1.1] TOUSI, F. - HANCOCK, W.S. - HINCAPIE, M. Technologies and strategies for glycoproteomics and glycomics and their application to clinical biomarker research. In *ANALYTICAL METHODS*. ISSN 1759-9660, 2011, vol. 3,

no. 1, p. 20-32., WOS

12. [1.1] WALKER, S.H. - BUDHATHOKI-UPRETY, J. - NOVAK, B.M. - MUDDIMAN, D.C. *Stable-Isotope Labeled Hydrophobic Hydrazide Reagents for the Relative Quantification of N-Linked Glycans by Electrospray Ionization Mass Spectrometry*. In *ANALYTICAL CHEMISTRY*. ISSN 0003-2700, 2011, vol. 83, no. 17, p. 6738-6745., WOS

13. [1.1] WANG, H. - WONG, C.H. - CHIN, A. - TAGUCHI, A. - TAYLOR, A. - HANASH, S. - SEKIYA, S. - TAKAHASHI, H. - MURASE, M. - KAJIHARA, S. - IWAMOTO, S. - TANAKA, K. *Integrated mass spectrometry-based analysis of plasma glycoproteins and their glycan modifications*. In *NATURE PROTOCOLS*. ISSN 1754-2189, 2011, vol. 6, no. 3., WOS

14. [1.1] YAMADA, K. - KAKEHI, K. *Recent advances in the analysis of carbohydrates for biomedical use*. In *JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS*. ISSN 0731-7085, 2011, vol. 55, no. 4, Sp. Iss. SI, p. 702-727., WOS

15. [1.2] BEREMAN, M.S. - MUDDIMAN, D.C. *N-linked global glycan profiling by nanoLC mass spectrometry*. In *METHODS IN MOLECULAR BIOLOGY*. ISSN 1064-3745, 2011, vol. 790, p. 87-97, SCOPUS

16. [1.2] LISTINSKY, J.J. - SIEGAL, G.P. - LISTINSKY, C.M. *The emerging importance of α -L-fucose in human breast cancer: A review*. In *AMERICAN JOURNAL OF TRANSLATIONAL RESEARCH*. ISSN 1943-8141, 2011, vol. 3, no. 4, p. 292-322, SCOPUS

17. [1.2] MEANY, D.L. - CHAN, D.W. *Aberrant glycosylation associated with enzymes as cancer biomarkers*. In *CLINICAL PROTEOMICS*. ISSN 1542-6416, 2011, vol. 8, no. 1, art. no. 7, SCOPUS

ADCA75

KYSEĽOVÁ, Zuzana - MECHREF, Yehia - AL BATAINEH, Mohammad M. - DOBROLECKI, Lacey E. - HICKEY, Robert J. - VINSON, Jake - SWEENEY, Christopher J. - NOVOTNÝ, Miloš V. *Alterations in the serum glycome due to metastatic prostate cancer*. In *Journal of Proteome Research*, 2007, vol. 6, p. 1822-1832. (5.151 - IF2006). (2007 - Current Contents). ISSN 1535-3893.

Citácie:

1. [1.1] CORTES, D.F. - KABULSKI, J.L. - LAZAR, A.C. - LAZAR, I.M. *Recent advances in the MS analysis of glycoproteins: Capillary and microfluidic workflows*. In *ELECTROPHORESIS*. ISSN 0173-0835, 2011, vol. 32, no. 1, p. 14-29., WOS

2. [1.1] DE LEOZ, M.L.A. - YOUNG, L.J.T. - AN, H.J. - KRONEWITTER, S.R. - KIM, J.H. - MIYAMOTO, S. - BOROWSKY, A.D. - CHEW, H.K. - LEBRILLA, C.B. *High-Mannose Glycans are Elevated during Breast Cancer Progression*. In *MOLECULAR & CELLULAR PROTEOMICS*. ISSN 1535-9476, 2011, vol. 10, no. 1: M110.002717, doi:10.1074/mcp.M110.002717, WOS

3. [1.1] DIXON, R.B. - BEREMAN, M.S. - PETITTE, J.N. - HAWKRIDGE, A.M. - MUDDIMAN, D.C. *One-year plasma N-linked glycome intra-individual and inter-individual variability in the chicken model of spontaneous ovarian adenocarcinoma*. In *INTERNATIONAL JOURNAL OF MASS SPECTROMETRY*. ISSN 1387-3806, 2011, vol. 305, no. 2-3, SI, p. 79-86., WOS

4. [1.1] FRY, S.A. - AFROUGH, B. - LOMAX-BROWNE, H.J. - TIMMS, J.F. - VELENTZIS, L.S. - LEATHEM, A.J.C. *Lectin microarray profiling of metastatic breast cancers*. In *GLYCOBIOLOGY*. ISSN 0959-6658, 2011, vol. 21, no. 8, p. 1060-1070., WOS

5. [1.1] HIROSE, K. - AMANO, M. - HASHIMOTO, R. - LEE, Y.C. - NISHIMURA, S.I. *Insight into Glycan Diversity and Evolutionary Lineage Based on Comparative Avio-N-glycomics and Sialic Acid Analysis of 88 Egg Whites of*

Galloanserae. In BIOCHEMISTRY. ISSN 0006-2960, 2011, vol. 50, no. 21, p. 4757-4774., WOS

6. [1.1] LIU, C.B. *The Application of SELDI-TOF-MS in Clinical Diagnosis of Cancers. In JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY. ISSN 1110-7243, 2011. Article Number: 245821, DOI: 10.1155/2011/245821, WOS*

7. [1.1] NICHOLLS, J.M. - FRANCIS, G.D. *Anatomical pathology is dead? Long live anatomical pathology. In PATHOLOGY. ISSN 0031-3025, 2011, vol. 43, no. 6, p. 635-641., WOS*

8. [1.1] WALKER, S.H. - BUDHATHOKI-UPRETY, J. - NOVAK, B.M. - MUDDIMAN, D.C. *Stable-Isotope Labeled Hydrophobic Hydrazide Reagents for the Relative Quantification of N-Linked Glycans by Electrospray Ionization Mass Spectrometry. In ANALYTICAL CHEMISTRY. ISSN 0003-2700, 2011, vol. 83, no. 17, p. 6738-6745., WOS*

9. [1.1] ZHANG, S. - SHU, H. - LUO, K.X. - KANG, X.N. - ZHANG, Y. - LU, H.J. - LIU, Y.K. *N-linked glycan changes of serum haptoglobin beta chain in liver disease patients. In MOLECULAR BIOSYSTEMS. ISSN 1742-206X, 2011, vol. 7, no. 5, p. 1621-1628., WOS*

10. [1.2] Bereman, M.S., Muddiman, D.C. *N-linked global glycan profiling by nanoLC mass spectrometry. In Methods in Molecular Biology. Book series. ISSN 1064-3745, vol. 790, p. 87-97, ISBN: 978-161779318-9, SCOPUS*

11. [1.2] MEANY, D.L. - CHAN, D.W. *Aberrant glycosylation associated with enzymes as cancer biomarkers. In CLINICAL PROTEOMICS. ISSN 1542-6416, 2011, vol. 8, no. 1, art. no. 7, SCOPUS*

ADCA76

KYSEĽOVÁ, Zuzana - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena - ULIČNÁ, Oľga - MIHALOVÁ, Danica - KARASU, Çimen - ŠTEFEK, Milan. *Effect of the pyridoindole antioxidant stobadine on development of experimental diabetic cataract and on lens protein oxidation in rats: comparison with vitamin E and BHT. In Molecular vision : a peer-reviewed web journal [elektronický zdroj], 2005, vol. 11, no. 6, p. 56 - 65. (2.900 - IF2004). (2005 - Current Contents). ISSN 1090-0535.*

Citácie:

1. [1.1] BROSKOVA, Z. - KNEZL, V. *Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS*

2. [1.1] CAREY, J.W. - PINARCI, E.Y. - PENUGONDA, S. - KARACAL, H. - ERCAL, N. *In vivo inhibition of l-buthionine-(S,R)-sulfoximine-induced cataracts by a novel antioxidant, N-acetylcysteine amide. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 50, no. 6, p. 722-729., WOS*

3. [1.1] LI, N. - ZHU, Y.X. - DENG, X.G. - GAO, Y. - ZHU, Y.G. - HE, M.F. *Protective effects and mechanism of tetramethylpyrazine against lens opacification induced by sodium selenite in rats. In EXPERIMENTAL EYE RESEARCH. ISSN 0014-4835, 2011, vol. 93, no. 1, p. 98-102., WOS*

4. [3] SCHILER J. - VOLPI, N. - HRABAROVA, E. - SOLTES, L. *Hyaluronic acid: a natural biopolymer. Chapt.1 In Kalia S., Avérous L. Biopolymers: biomedical and environmental applications. Salem: Scrivener 2011. p. 3-34, ISBN 978-0-470-63923-8*

ADCA77

KYSEĽOVÁ, Zuzana - GARCIA, S.J. - GAJDOŠÍKOVÁ, Alena - GAJDOŠÍK, Andrej - ŠTEFEK, Milan. *Temporal relationship between lens protein oxidation and cataract development in streptozotocin-induced diabetic rats. In Physiological Research. - Praha : Institute of Physiology, Academy of Sciences of the Czech Republic, 2005, vol. 54, no. 1, p. 49 - 56. (1.140 - IF2004). (2005 - Current Contents). ISSN 0862-8408.*

Citácie:

1. [1.1] CAREY, J.W. - PINARCI, E.Y. - PENUGONDA, S. - KARACAL, H. - ERCAL, N. *In vivo inhibition of l-buthionine-(S,R)-sulfoximine-induced cataracts by a novel antioxidant, N-acetylcysteine amide. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 50, no. 6, p. 722-729., WOS*
2. [1.1] LI, Y. - ZHANG, W. - LI, P.W. - HUANG, K.X. *Effect of streptozocin-induced diabetes mellitus on expression of methionine sulfoxide reductases and accumulation of their substrates in mouse lenses. In EXPERIMENTAL EYE RESEARCH. ISSN 0014-4835, 2011, vol. 92, no. 5, p. 401-407., WOS*

ADCA78

KYSELOVÁ, Zuzana - ŠTEFEK, Milan - BAUER, Viktor. *Pharmacological prevention of diabetic cataract. In Journal of diabetes and its complications. - New York : Elsevier, 2004, vol. 18, p.129 -140. (2.345 - IF2003). ISSN 1056-8727.*

Citácie:

1. [1.1] GANESHPURKAR, A. - BHADORIYA, S.S. - PARDHI, P. - JAIN, A.P. - RAI, G. *In vitro prevention of cataract by Oyster Mushroom Pleurotus florida extract on isolated goat eye lens. In INDIAN JOURNAL OF PHARMACOLOGY. ISSN 0019-5472, 2011, vol. 43, no. 6, p. 667-670., WOS*
2. [1.1] GRAUSLUND, J. - GREEN, A. - SJOLIE, A.K. *Cataract surgery in a population-based cohort of patients with type 1 diabetes: long-term incidence and risk factors. In ACTA OPHTHALMOLOGICA. ISSN 1755-375X, 2011, vol. 89, no. 1, p. 25-29., WOS*
3. [1.1] KIM, J. - KIM, C.S. - SOHN, E. - LEE, Y.M. - KIM, J.S. *KIOM-79 inhibits aldose reductase activity and cataractogenesis in Zucker diabetic fatty rats. In JOURNAL OF PHARMACY AND PHARMACOLOGY. ISSN 0022-3573, 2011, vol. 63, no. 10, p. 1301-1308., WOS*
4. [1.1] KIM, J.S. - KIM, J. - KIM, C.S. - SOHN, E. - KIM, H. - JEONG, I.H. *KIOM-79 prevents lens epithelial cell apoptosis and lens opacification in Zucker diabetic fatty rats. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2011, art. no. 717921, 10 p., WOS*
5. [1.1] KIM, Y.S. - KIM, N.H. - LEE, Y.M. - KIM, J.S. *Preventive Effect of Chlorogenic Acid on Lens Opacity and Cytotoxicity in Human Lens Epithelial Cells. In BIOLOGICAL & PHARMACEUTICAL BULLETIN. ISSN 0918-6158, 2011, vol. 34, no. 6, p. 925-928., WOS*
6. [1.1] LI, Y. - ZHANG, W. - LI, P.W. - HUANG, K.X. *Effect of streptozocin-induced diabetes mellitus on expression of methionine sulfoxide reductases and accumulation of their substrates in mouse lenses. In EXPERIMENTAL EYE RESEARCH. ISSN 0014-4835, 2011, vol. 92, no. 5, p. 401-407., WOS*
7. [1.1] LINETSKY, M. - JOHAR, S.R.K. - MELTRETTER, J. - PADMANABHA, S. - PARMAR, T. - VASAVADA, A.R. - PISCHETSRIEDER, M. - NAGARAJ, R.H. *Determination of dideoxyosone precursors of AGEs in human lens proteins. In ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. ISSN 0003-9861, 2011, vol. 514, no. 1-2, p. 16-26., WOS*
8. [1.1] MARZEC, E. - OLSZEWSKI, J. - GRZESKOWIAK, E. - KAMINSKA, A. - BIENERT, A. - IWANIK, K. *Dielectric studies of the paracetamol-lenticular tissue interactions. In COLLOIDS AND SURFACES B-BIOINTERFACES. ISSN 0927-7765, 2011, vol. 84, no. 1, p. 131-134., WOS*
9. [1.1] SHUKRI, R. - MOHAMED, S. - MUSTAPHA, N.M. - HAMID, A.A. *Evaluating the toxic and beneficial effects of jering beans (Archidendron jiringa) in normal and diabetic rats. In JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE. ISSN 0022-5142, 2011, vol. 91, no. 14, p. 2697-2706., WOS*
10. [1.1] XU, G.X. - ZHANG, J.F. - YANG, H. - LIU, D.W. - PU, S.Y. - JI, X.Y. - XU, G.T. *alpha B-crystallin malondialdehyde, superoxide dismutase, and*

lutathione peroxidase changes in X-ray irradiated rat lens. In INTERNATIONAL JOURNAL OF OPHTHALMOLOGY. ISSN 2222-3959, 2011, vol. 4, no. 4, p. 365-370., WOS

11. [1.1] ZHANG, M. - SHOEB, M. - LIU, P. - XIAO, T.L. - HOGAN, D. - WONG, I.G. - CAMPBELL, G.A. - ANSARI, N.H. *Topical metal chelation therapy ameliorates oxidation-induced toxicity in diabetic cataract. In JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART A-CURRENT ISSUES. ISSN 1528-7394, 2011, vol. 74, no. 6, p. 380-391., WOS*

12. [1.2] GRAUSLUND, J. *Eye complications and markers of morbidity and mortality in long-term type 1 diabetes. In ACTA OPHTHALMOLOGICA. ISSN 1755-375X, 2011, vol. 89, THESIS 1, pp. 1-19, SCOPUS*

13. [1.2] KIM, Y.S. - KIM, N.H. - YOO, N.H. - LEE, Y.M. - JEONG, I.H. - KIM, J.S. *Quercitrin gallate inhibits aldose reductase activity and xylose-induced lens opacity and oxidation. In BIOMEDICINE AND AGING PATHOLOGY. ISSN 2210-5220, 2011, vol. 1, no. 2, p. 123-127, SCOPUS*

14. [3] SCHILER J. - VOLPI, N. - HRABAROVA, E. - SOLTES, L. *Hyaluronic acid: a natural biopolymer. Chapt.1. In Kalia S., Avérous L. eds. Biopolymers: biomedical and environmental applications. Salem: Scrivener 2011. P. 3-34. ISBN 978-0-470-63923-8*

ADCA79 LAKATOŠ, B. - KAISEROVÁ, K. - ŠIMKOVIČ, M. - ORLICKÝ, J. - KNEZL, Vladimír - VAREČKA, Ľudovít. *The effect of boromycin on the Ca²⁺ homeostasis. In Molecular and Cellular Biochemistry. - Dordrecht : Springer, 2002, vol. 231, p. 15-22. (1.583 - IF2001). (2002 - Current Contents). ISSN 0300-8177.*

Citácie:

1. [1.1] DEMBITSKY, V.M. - AL QUNTAR, A.A. - SREBNIK, M. *Natural and Synthetic Small Boron-Containing Molecules as Potential Inhibitors of Bacterial and Fungal Quorum Sensing. In CHEMICAL REVIEWS. ISSN 0009-2665, 2011, vol. 111, no. 1, p. 209-237., WOS*

2. [1.1] RAJA, N.S. - SANKARANARAYANAN, K. - DHATHATHREYAN, A. - NAIR, B.U. *Interaction of chromium(III) complexes with model lipid bilayers: Implications on cellular uptake. In BIOCHIMICA ET BIOPHYSICA ACTA-BIOMEMBRANES. ISSN 0005-2736, 2011, vol. 1808, no. 1, p. 332-340., WOS*

ADCA80 LASSÉGUE, Bernard - SORESCU, Dan - SZÖCS, Katalin - YIN, QiQin - AKERS, Marjorie - ZHANG, Yong - GRANT, Sharon L. - LAMBETH, J.David - GRIENDLING, Kathy K. *Novel gp91(phox) homologues in vascular smooth muscle cells. Nox1 mediates angiotensin II-induced superoxide formation and redox-sensitive signaling pathways. In Circulation research, 2001, vol. 88, p.888-894. (9.193 - IF2000). (2001 - Current Contents). ISSN 0009-7330.*

Citácie:

1. [1.1] AGO, T. - KURODA, J. - KAMOUCI, M. - SADOSHIMA, J. - KITAZONO, T. *Pathophysiological Roles of NADPH Oxidase/Nox Family Proteins in the Vascular System - Review and Perspective. In CIRCULATION JOURNAL. ISSN 1346-9843, 2011, vol. 75, no. 8, p. 1791-1800., WOS*

2. [1.1] AL GHOLEH, I. - KHOO, N.K.H. - KNAUS, U.G. - GRIENDLING, K.K. - TOUYZ, R.M. - THANNICKAL, V.J. - BARCHOWSKY, A. - NAUSEEF, W.M. - KELLEY, E.E. - BAUER, P.M. - DARLEY-USMAR, V. - SHIVA, S. - CIFUENTES-PAGANO, E. - FREEMAN, B.A. - GLADWIN, M.T. - PAGANO, P.J. *Oxidases and peroxidases in cardiovascular and lung disease: New concepts in reactive oxygen species signaling. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 7, p. 1271-1288., WOS*

3. [1.1] BOWMAN, M.A.H. - GAWDZIK, J. - BUKHARI, U. - HUSAIN, A.N. - TOTH, P.T. - KIM, G. - EARLEY, J. - MCNALLY, E.M. *S100A12 in Vascular*

- Smooth Muscle Accelerates Vascular Calcification in Apolipoprotein E-Null Mice by Activating an Osteogenic Gene Regulatory Program. In ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. ISSN 1079-5642, 2011, vol. 31, no. 2, p. 337-U243., WOS*
4. [1.1] BRIONES, A.M. - TABEL, F. - CALLERA, G.E. - MONTEZANO, A.C. - YOGI, A. - HE, Y. - QUINN, M.T. - SALAICES, M. - TOUYZ, R.M. Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. In JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION. ISSN 1933-1711, 2011, vol. 5, no. 3, p. 137-153., WOS
5. [1.1] CATTANEO, F. - IACCIO, A. - GUERRA, G. - MONTAGNANI, S. - AMMENDOLA, R. NADPH-oxidase-dependent reactive oxygen species mediate EGFR transactivation by FPRL1 in WKYMVm-stimulated human lung cancer cells. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 6, p. 1126-1136., WOS
6. [1.1] CHAN, Y.C. - LEUNG, P.S. The Renin-Angiotensin System and Reactive Oxygen Species: Implications in Pancreatitis. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2011, vol. 15, no. 10, p. 2743-2755., WOS
7. [1.1] CUI, W.H. - MATSUNO, K. - IWATA, K. - IBI, M. - MATSUMOTO, M. - ZHANG, J. - ZHU, K. - KATSUYAMA, M. - TOROK, N.J. - YABE-NISHIMURA, C. NOX1/Nicotinamide Adenine Dinucleotide Phosphate, Reduced Form (NADPH) Oxidase Promotes Proliferation of Stellate Cells and Aggravates Liver Fibrosis Induced by Bile Duct Ligation. In HEPATOLOGY. ISSN 0270-9139, 2011, vol. 54, no. 3, p. 949-958., WOS
8. [1.1] DAMMANAHALLI, J.K. - WANG, X.Q. - SUN, Z.J. Genetic interleukin-10 deficiency causes vascular remodeling via the upregulation of Nox1. In JOURNAL OF HYPERTENSION. ISSN 0263-6352, 2011, vol. 29, no. 11, p. 2116-2125., WOS
9. [1.1] DE HAAN, J.B. - JANDELEIT-DAHM, K.A. - ALLEN, T.J. Role of Oxidative Stress and Targeted Antioxidant Therapies in Experimental Models of Diabetic Complications. In STUDIES ON EXPERIMENTAL MODELS. Book Series: Oxidative Stress in Applied Basic Research and Clinical Practice. 2011, p. 3-38. ISBN: 978-1-60761-955-0, WOS
10. [1.1] DIKALOV, S. Cross talk between mitochondria and NADPH oxidases. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 7, p. 1289-1301., WOS
11. [1.1] DING, Y.F. - WINTERS, A. - DING, M. - GRAHAM, S. - AKOPOVA, I. - MUALLEM, S. - WANG, Y.X. - HONG, J.H. - GRZYCZYNSKI, Z. - YANG, S.H. - BIRNBAUMER, L. - MA, R. Reactive Oxygen Species-mediated TRPC6 Protein Activation in Vascular Myocytes, a Mechanism for Vasoconstrictor-regulated Vascular Tone. In JOURNAL OF BIOLOGICAL CHEMISTRY. ISSN 0021-9258, 2011, vol. 286, no. 36, p. 31799-31809., WOS
12. [1.1] ENZERINK, A. - VAHERI, A. Fibroblast activation in vascular inflammation. In JOURNAL OF THROMBOSIS AND HAEMOSTASIS. ISSN 1538-7933, 2011, vol. 9, no. 4, p. 619-626., WOS
13. [1.1] FLEDDERUS, J.O. - JOLES, J.A. Expanding the beneficial pleiotropic repertoire of interleukin-10. In JOURNAL OF HYPERTENSION. ISSN 0263-6352, 2011, vol. 29, no. 11, p. 2061-2063., WOS
14. [1.1] GARRIDO-URBANI, S. - JEMELIN, S. - DEFFERT, C. - CARNESECCHI, S. - BASSET, O. - SZYNDRALEWIEZ, C. - HEITZ, F. - PAGE, P. - MONTET, X. - MICHALIK, L. - ARBISER, J. - RUEGG, C. - KRAUSE, K.H. - IMHOF, B. Targeting Vascular NADPH Oxidase 1 Blocks Tumor Angiogenesis through a PPAR alpha Mediated Mechanism. In PLOS ONE. ISSN 1932-6203,

2011, vol. 6, no. 2., WOS

15. [1.1] GAWDZIK, J. - MATHEW, L. - KIM, G. - PURI, T.S. - BOWMAN, M.A.H. *Vascular Remodeling and Arterial Calcification Are Directly Mediated by S100A12 (EN-RAGE) in Chronic Kidney Disease. In AMERICAN JOURNAL OF NEPHROLOGY. ISSN 0250-8095, 2011, vol. 33, no. 3, p. 250-259., WOS*

16. [1.1] HSU, J.H. - WU, J.R. - LIOU, S.F. - CHEN, H.M. - DAI, Z.K. - CHEN, I.J. - YEH, J.L. *Labeledipinedilol-A prevents lysophosphatidylcholine-induced vascular smooth muscle cell death through reducing reactive oxygen species production and anti-apoptosis. In ATHEROSCLEROSIS. ISSN 0021-9150, 2011, vol. 217, no. 2, p. 379-386., WOS*

17. [1.1] JIANG, F. - LIM, H.K. - MORRIS, M.J. - PRIOR, L. - VELKOSKA, E. - WU, X. - DUSTING, G.J. *Systemic upregulation of NADPH oxidase in diet-induced obesity in rats. In REDOX REPORT. ISSN 1351-0002, 2011, vol. 16, no. 6, p. 223-229., WOS*

18. [1.1] JODDAR, B. - SHAFFER, R.J.G. - REEN, R.K. - GOOCH, K.J. *Arterial pO(2) stimulates intimal hyperplasia and serum stimulates inward eutrophic remodeling in porcine saphenous veins cultured ex vivo. In BIOMECHANICS AND MODELING IN MECHANOBIOLOGY. ISSN 1617-7959, 2011, vol. 10, no. 2, p. 161-175., WOS*

19. [1.1] KIM, Y.M. - LIM, S.C. - HAN, C.Y. - KAY, H.Y. - CHO, I.J. - KI, S.H. - LEE, M.Y. - KWON, H.M. - LEE, C.H. - KIM, S.G. *G alpha(12/13) Induction of CYR61 in Association With Arteriosclerotic Intimal Hyperplasia Effect of Sphingosine-1-Phosphate. In ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. ISSN 1079-5642, 2011, vol. 31, no. 4, p. 861-U328., WOS*

20. [1.1] LI, L. - GAO, P. - ZHANG, H.N. - CHEN, H.Z. - ZHENG, W. - LV, X.A. - XU, T.T. - WEI, Y.S. - LIU, D.P. - LIANG, C.C. *SIRT1 inhibits angiotensin II-induced vascular smooth muscle cell hypertrophy. In ACTA BIOCHIMICA ET BIOPHYSICA SINICA. ISSN 1672-9145, 2011, vol. 43, no. 2, p. 103-109., WOS*

21. [1.1] LUBOS, E. - LOSCALZO, J. - HANDY, D.E. *Glutathione Peroxidase-1 in Health and Disease: From Molecular Mechanisms to Therapeutic Opportunities. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2011, vol. 15, no. 7, p. 1957-1997., WOS*

22. [1.1] MONTEZANO, A.C. - BURGER, D. - CERAVOLO, G.S. - YUSUF, H. - MONTERO, M. - TOUYZ, R.M. *Novel Nox homologues in the vasculature: focusing on Nox4 and Nox5. In CLINICAL SCIENCE. ISSN 0143-5221, 2011, vol. 120, no. 3-4, p. 131-141., WOS*

23. [1.1] MORI, T. - KAI, H. - KAJIMOTO, H. - KOGA, M. - KUDO, H. - TAKAYAMA, N. - YASUOKA, S. - ANEGAWA, T. - KAI, M. - IMAIZUMI, T. *Enhanced cardiac inflammation and fibrosis in ovariectomized hypertensive rats: a possible mechanism of diastolic dysfunction in postmenopausal women. In HYPERTENSION RESEARCH. ISSN 0916-9636, 2011, vol. 34, no. 4, p. 496-502., WOS*

24. [1.1] NEDIANI, C. - RAIMONDI, L. - BORCHI, E. - CERBAI, E. *Nitric Oxide/Reactive Oxygen Species Generation and Nitroso/Redox Imbalance in Heart Failure: From Molecular Mechanisms to Therapeutic Implications. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2011, vol. 14, no. 2, p. 289-331., WOS*

25. [1.1] OCK, C.Y. - HONG, K.S. - CHOI, K.S. - CHUNG, M.H. - KIM, Y.S. - KIM, J.H. - HAHM, K.B. *A novel approach for stress-induced gastritis based on paradoxical anti-oxidative and anti-inflammatory action of exogenous 8-hydroxydeoxyguanosine. In BIOCHEMICAL PHARMACOLOGY. ISSN 0006-*

- 2952, 2011, vol. 81, no. 1, p. 111-122., WOS
26. [1.1] PAIK, Y.H. - IWAISAKO, K. - SEKI, E. - INOKUCHI, S. - SCHNABL, B. - OSTERREICHER, C.H. - KISSELEVA, T. - BRENNER, D.A. *The Nicotinamide Adenine Dinucleotide Phosphate Oxidase (NOX) Homologues NOX1 and NOX2/gp91(phox) Mediate Hepatic Fibrosis in Mice.* In *HEPATOLOGY*. ISSN 0270-9139, 2011, vol. 53, no. 5, p. 1730-1741., WOS
27. [1.1] PIETROWSKI, E. - BENDER, B. - HUPPERT, J. - WHITE, R. - LUHMANN, H.J. - KUHLMANN, C.R.W. *Pro-Inflammatory Effects of Interleukin-17A on Vascular Smooth Muscle Cells Involve NAD(P)H-Oxidase Derived Reactive Oxygen Species.* In *JOURNAL OF VASCULAR RESEARCH*. ISSN 1018-1172, 2011, vol. 48, no. 1, p. 52-58., WOS
28. [1.1] RABELO, L.A. - ALENINA, N. - BADER, M. *ACE2-angiotensin-(1-7)-Mas axis and oxidative stress in cardiovascular disease.* In *HYPERTENSION RESEARCH*. ISSN 0916-9636, 2011, vol. 34, no. 2, p. 154-160., WOS
29. [1.1] RAY, R. - MURDOCH, C.E. - WANG, M.S. - SANTOS, C.X. - ZHANG, M. - ALOM-RUIZ, S. - ANILKUMAR, N. - OUATTARA, A. - CAVE, A.C. - WALKER, S.J. - GRIEVE, D.J. - CHARLES, R.L. - EATON, P. - BREWER, A.C. - SHAH, A.M. *Endothelial Nox4 NADPH Oxidase Enhances Vasodilatation and Reduces Blood Pressure In Vivo.* In *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*. ISSN 1079-5642, 2011, vol. 31, no. 6, p. 1368-U302., WOS
30. [1.1] RODRIGUEZ-ITURBE, B. - VAZIRI, N.D. *Hypertension.* In *STUDIES ON RENAL DISORDERS. Book Series: Oxidative Stress in Applied Basic Research and Clinical Practice.* New York, Springer 2011, p. 121-142. ISBN: 978-1-60761-856-0, WOS
31. [1.1] SCHREINER, C.E. - KUMERZ, M. - GESSLBAUER, J. - SCHACHNER, D. - JOA, H. - ERKER, T. - ATANASOV, A.G. - HEISS, E.H. - DIRSCH, V.M. *Resveratrol blocks Akt activation in angiotensin II- or EGF-stimulated vascular smooth muscle cells in a redox-independent manner.* In *CARDIOVASCULAR RESEARCH*. ISSN 0008-6363, 2011, vol. 90, no. 1, p. 140-147., WOS
32. [1.1] SHI, G. - FU, Y.P. - JIANG, W. - YIN, A.P. - FENG, M. - WU, Y. - KAWAI, Y. - MIYAMORI, I. - FAN, C.Y. *Activation of Src-ATF1 pathway is involved in upregulation of Nox1, a catalytic subunit of NADPH oxidase, by aldosterone.* In *ENDOCRINE JOURNAL*. ISSN 0918-8959, 2011, vol. 58, no. 6, p. 491-499., WOS
33. [1.1] SHI, Y. - COSENTINO, F. - CAMICI, G.G. - AKHMEDOV, A. - VANHOUTTE, P.M. - TANNER, F.C. - LUSCHER, T.F. *Oxidized Low-Density Lipoprotein Activates p66(Shc) via Lectin-Like Oxidized Low-Density Lipoprotein Receptor-1, Protein Kinase C-beta, and c-Jun N-Terminal Kinase Kinase in Human Endothelial Cells.* In *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*. ISSN 1079-5642, 2011, vol. 31, no. 9, p. 2090-U454., WOS
34. [1.1] SOPRANA, H.Z. - SOUZA, L.C. - DEBBAS, V. - LAURINDO, F.R.M. *Cellular prion protein (PrP(C)) and superoxide dismutase (SOD) in vascular cells under oxidative stress.* In *EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY*. ISSN 0940-2993, 2011, vol. 63, no. 3, p. 229-236., WOS
35. [1.1] WANG, P. - WU, X.Q. - BAO, Y.X. - FANG, J. - ZHOU, S.G. - GAO, J. - PI, R.B. - MOU, Y.G. - LIU, P.Q. *Tanshinone IIA prevents cardiac remodeling through attenuating NAD (P)H oxidase-derived reactive oxygen species production in hypertensive rats.* In *PHARMAZIE*. ISSN 0031-7144, 2011, vol. 66, no. 7, p. 517-524., WOS
36. [1.1] WANG, R. - DASHWOOD, W.M. - NIAN, H. - LOHR, C.V. - FISCHER,

- K.A. - TSUCHIYA, N. - NAKAGAMA, H. - ASHKTORAB, H. - DASHWOOD, R.H. NADPH oxidase overexpression in human colon cancers and rat colon tumors induced by 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP). In INTERNATIONAL JOURNAL OF CANCER. ISSN 0020-7136, 2011, vol. 128, no. 11, p. 2581-2590., WOS*
37. [1.1] WILLAM, C. - DITTING, T. - VEELKEN, R. - JACOBI, J. *Cardio-Renal Connection: The Role of Hypoxia and Oxidative Stress. In STUDIES ON RENAL DISORDERS. Book Series: Oxidative Stress in Applied Basic Research and Clinical Practice. New York, Springer 2011, p. 499-533. ISBN: 978-1-60761-856-0, WOS*
38. [1.1] ZIMMERMAN, M.C. - TAKAPOO, M. - JAGADEESHA, D.K. - STANIC, B. - BANFI, B. - BHALLA, R.C. - MILLER, F.J. *Activation of NADPH Oxidase 1 Increases Intracellular Calcium and Migration of Smooth Muscle Cells. In HYPERTENSION. ISSN 0194-911X, 2011, vol. 58, no. 3, p. 446-U236., WOS*
- ADCA81 LOJEK, Antonín - PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - NOSÁL, Radomír - PAPEŽÍKOVÁ, Ivana - ČÍŽ, Milan. Effect of carvedilol on the production of reactive oxygen species by HL-60 cells. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p.779-783. (1.443 - IF2007). ISSN 0172-780X.
Citácie:
1. [1.1] WEI, H. - WEI, D. - YI, S. - ZHANG, F. - DING, W.J. Oxidative stress induced by urban fine particles in cultured EA.hy926 cells. In HUMAN & EXPERIMENTAL TOXICOLOGY. ISSN 0960-3271, 2011, vol. 30, no. 7, p. 579-590., WOS
- ADCA82 MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - NOSÁL, Radomír - LOJEK, Antonín - PEKAROVÁ, Michaela - CUPANÍKOVÁ, Daniela. Inhibition of superoxide generation and myeloperoxidase release by carvedilol after receptor and nonreceptor stimulation of human neutrophils. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p.790-793. (1.443 - IF2007). ISSN 0172-780X.
Citácie:
1. [1.1] NDREPEPA, G. - BRAUN, S. - SCHOMIG, A. - KASTRATI, A. Impact of therapy with statins, beta-blockers and angiotensin-converting enzyme inhibitors on plasma myeloperoxidase in patients with coronary artery disease. In CLINICAL RESEARCH IN CARDIOLOGY. ISSN 1861-0684, 2011, vol. 100, no. 4, p. 327-333., WOS
- ADCA83 MACH, Mojmir - DUBOVICKÝ, Michal - NAVAROVÁ, Jana - KOVAČOVSKÝ, Pavel - UJHÁZY, Eduard. Vitamin E supplementation in phenytoin induced developmental toxicity in rats: postnatal study. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 69 - 73. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.
Citácie:
1. [1.1] SOYSAL, H. - UNUR, E. - DUZLER, A. - KARACA, O. - EKINCI, N. Effects of intraperitoneal administration of the phenytoin on the skeletal system of rat fetus. In SEIZURE-EUROPEAN JOURNAL OF EPILEPSY. ISSN 1059-1311, 2011, vol. 20, no. 3, p. 187-193., WOS
- ADCA84 MACH, Mojmir - GRUBBS, Robert D. - PRICE, William A. - PATON, Sara J. - LUCOT, James B. Behavioral changes after acetylcholinesterase inhibition with physostigmine in mice. In *Pharmacology, biochemistry and behavior. - Oxford : Elsevier Science, 2004, vol. 79, p. 533 - 540. (2.307 - IF2003). (2004 - Current Contents). ISSN 0091-3057.*
Citácie:
1. [1.1] DEIANA, S. - PLATT, B. - RIEDEL, G. The cholinergic system and spatial learning. In BEHAVIOURAL BRAIN RESEARCH. ISSN 0166-4328, 2011,

- vol. 221, no. 2, SI, p. 389-411., WOS
2. [1.1] GIAROLA, A. - AUBER, A. - CHIAMULERA, C. *Acetylcholinesterase inhibitors partially generalize to nicotine discriminative stimulus effect in rats. In BEHAVIOURAL PHARMACOLOGY. ISSN 0955-8810, 2011, vol. 22, no. 1, p. 1-6., WOS*
3. [1.1] ROBINSON, L. - PLATT, B. - RIEDEL, G. *Involvement of the cholinergic system in conditioning and perceptual memory. In BEHAVIOURAL BRAIN RESEARCH. ISSN 0166-4328, 2011, vol. 221, no. 2, SI, p. 443-465., WOS*
- ADCA85 MACHOVÁ, Eva - KOGAN, Grigorij - ŠANDULA, Jozef - CHORVATOVIČOVÁ, Darina. Ultrasonic depolymerization of the chitin-glucan complex from *Aspergillus niger* and antimutagenic activity of its product. In *Ultrasonics Sonochemistry*, 1999, vol. 6, p. 111-114. (1.000 - IF1998). (1999 - Current Contents). ISSN 1350-4177.
- Citácie:
1. [1.1] SMIRNOU, D. - KRCMAR, M. - PROCHAZKOVA, E. *Chitin-Glucan Complex Production by Schizophyllum commune Submerged Cultivation. In POLISH JOURNAL OF MICROBIOLOGY. ISSN 1733-1331, 2011, vol. 60, no. 3, p. 223-228., WOS*
2. [1.1] Smirnou, D (Smirnou, Dzianis); Krcmar, M (Krcmar, Martin); Prochazkova, E (Prochazkova, Eva) Source: POLISH JOURNAL OF MICROBIOLOGY Volume: 60 Issue: 3 Pages: 223-228, WOS
- ADCA86 MARGARON, Philippe - GRÉGOIRE, Marie-Josée - ŠČASNÁR, Vladimír - ALI, Hasrat - LIER, Johan E. van. Structure-photodynamic activity relationships of a series of 4-substituted zinc phthalocyanines. In *Photochemistry and Photobiology*, 1996, vol. 63, no. 2, p. 217-223. (2.215 - IF1995). ISSN 0031-8655.
- Citácie:
1. [1.1] BURAT, A.K. - KOCA, A. - LEWTAK, J.P. - GRYKO, D.T. *Preparation, electrochemistry and optical properties of unsymmetrical phthalocyanines bearing morpholine and tert-butylphenoxy substituents. In SYNTHETIC METALS. ISSN 0379-6779, 2011, vol. 161, no. 15-16, p. 1537-1545., WOS*
2. [1.1] SAHA, S. - MALLICK, D. - MAJUMDAR, R. - ROY, M. - DIGHE, R.R. - JEMMIS, E.D. - CHAKRAVARTY, A.R. *Structure-Activity Relationship of Photocytotoxic Iron(III) Complexes of Modified Dipyridophenazine Ligands. In INORGANIC CHEMISTRY. ISSN 0020-1669, 2011, vol. 50, no. 7, p. 2975-2987., WOS*
- ADCA87 MENDICHI, Raniero - ŠOLTÉS, Ladislav - SCHIERONI, Alberto Giacometti. Evaluation of radius of gyration and intrinsic viscosity molar mass dependence and stiffness of hyaluronan. In *Biomacromolecules [seriál]*, 2003, vol.4, no. 6, p.1805-1810. (2.496 - IF2002). (2003 - Current Contents). ISSN 1525-7797.
- Citácie:
1. [1.1] GARCIA-ABUIN, A. - GOMEZ-DIAZ, D. - NAVAZA, J.M. - REGUEIRO, L. - VIDAL-TATO, I. *Viscosimetric behaviour of hyaluronic acid in different aqueous solutions. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 85, no. 3, p. 500-505., WOS*
2. [1.1] HAWARD, S.J. - SHARMA, V. - ODELL, J.A. *Extensional opto-rheometry with biofluids and ultra-dilute polymer solutions. In SOFT MATTER. ISSN 1744-683X, 2011, vol. 7, no. 21, p. 9908-9921., WOS*
3. [1.1] NAKANO, Y. - KUROKAWA, T. - DU, M. - LIU, J. - TOMINAGA, T. - OSADA, Y. - GONG, J.P. *Effect of Hyaluronan Solution on Dynamic Friction of PVA Gel Sliding on Weakly Adhesive Glass Substrate. In MACROMOLECULES. ISSN 0024-9297, 2011, vol. 44, no. 22, p. 8908-8915., WOS*
4. [1.1] WEINHOLD, M.X. - THOMING, J. *On conformational analysis of chitosan. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 84, no.*

- 4, p. 1237-1243., WOS
5. [1.2] LUAN, T. - FANG, Y. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H. Compared molecular characterization of hyaluronan using multiple-detection techniques. In POLYMER. ISSN 0032-3861, 2011, vol. 52, no. 24, p. 5648-5658, SCOPUS
- ADCA88 MENDICHI, Raniero - ŠOLTÉS, Ladislav. Hyaluronan molecular weight and polydispersity in some commercial intra-articular injectable preparations and in synovial fluid. In Inflammation research. - Basel : Birkhäuser, 2002, vol. 51, no. 3, p.115-116. (1.560 - IF2001). (2002 - Current Contents). ISSN 1023-3830.
Citácie:
1. [1.2] JAGADEESWARA REDDY, K. - KARUNAKARAN, K.T. - SAMBASIVA RAO, K.R.S. Enhanced hyaluronic acid production by a mutant strain, 3523-7 of *Streptococcus zooepidemicus*. In CURRENT TRENDS IN BIOTECHNOLOGY AND PHARMACY. ISSN 0973-8916, 2011, vol. 5, no. 4, p. 1473-1479, SCOPUS
- ADCA89 MIERTUŠ, Stanislav - FRECER, Vladimír - MÁJEKOVÁ, Magdaléna. The extended polarizable continuum model for calculation of solvent effects. In Journal of Molecular Structure : Theochem, 1988, vol.179, p. 353-366. ISSN 0166-1280.
Citácie:
1. [1.2] MA, S. - SHEN, S. - HAN, Z. - XU, Y. - LEE, H. - KRISHNAMURTHY, D. - SENANAYAKE, C. - GRINBERG, N. Determination of the absolute configuration of 3-amino-3-(tetrahydrofuran) carboxylic acid by vibrational circular dichroism and DFT calculation. In STUDIA UNIVERSITATIS BABES-BOLYAI CHEMIA. ISSN 1224-7154, 2011, vol. 1, p. 221-228, SCOPUS
- ADCA90 MISLOVIČOVÁ, Danica - KOGAN, Grigorij - GOSSELET, Noëlle Martine - SÉBILLE, Bernard - ŠOLTÉS, Ladislav. Controlling the association of adamantyl-substituted poly{N-[tris(hydroxymethyl)methyl]acrylamide} and a β -cyclodextrin/epichlorohydrin polymer by a small drug molecule - naproxen. In Chemistry & biodiversity, 2007, vol. 4, p. 52-57. (1.616 - IF2006). (2007 - Current Contents). ISSN 1612-1872.
Citácie:
1. [1.1] FU, A.S. - THATIPARTI, T.R. - SAIDEL, G.M. - VON RECUM, H.A. Experimental Studies and Modeling of Drug Release from a Tunable Affinity-Based Drug Delivery Platform. In ANNALS OF BIOMEDICAL ENGINEERING. ISSN 0090-6964, 2011, vol. 39, no. 9, p. 2466-2475., WOS
- ADCA91 MISLOVIČOVÁ, Danica - MASÁROVÁ, Jana - BENDZALOVA, K. - ŠOLTÉS, Ladislav - MACHOVÁ, Eva. Sonication of chitin-glucan, preparation of water-soluble fractions and characterization by HPLC. In Ultrasonics Sonochemistry, 2000, vol. 7, no. 2, p. 63-68. (1.732 - IF1999). (2000 - Current Contents). ISSN 1350-4177.
Citácie:
1. [1.1] LAN, G.S. - CHEN, H.X. - WANG, Z.S. - ZHANG, W.J. - ZHANG, L.K. Extraction of *Polygonatum odoratum* polysaccharides using response surface methodology and preparation of a compound beverage. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 86, no. 3, p. 1175-1180., WOS
2. [1.2] WANG, Y. - MENG, X. - LI, B. - SUN, X. - ZHANG, Q. Effect of ultrasonic-assisted extraction on antioxidant activity and molecular weight distribution of polysaccharides from *Schisandra Chinensis* (Turcz.) baill. In PROCEEDINGS - 2011 4TH INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING AND INFORMATICS, BMEI 2011, vol. 3, art. no. 6098603, p. 1213-1217, ISBN 978-142449352-4, SCOPUS
- ADCA92 MIŠÍK, Vladimír - RIESZ, Peter. Effect of Cd²⁺ on the center dot H atom yield in the sonolysis of water. Evidence against the formation of hydrated electrons. In

Journal of physical chemistry A.Molecules, spectroscopy, kinetics, environment, and general theory, 1997, vol. 101, no. 8, p. 1441-1444. ISSN 1089-5639.

Citácie:

1. [1.1] PANKAJ. *Aqueous Inorganic Sonochemistry. In THEORETICAL AND EXPERIMENTAL SONOCHEMISTRY INVOLVING INORGANIC SYSTEMS. 2011, p. 213-271., WOS*

ADCA93 MIŠÍK, Vladimír - RIESZ, Peter. Free radical intermediates in sonodynamic therapy. In Annals of the New York Academy of Sciences, 2000, vol. 899, p. 335-348. (0.964 - IF1999). ISSN 0077-8923.

Citácie:

1. [1.1] CHRISTENSEN, I.L. - SUN, Y.P. - JUZENAS, P. *Carbon Dots as Antioxidants and Prooxidants. In JOURNAL OF BIOMEDICAL NANOTECHNOLOGY. ISSN 1550-7033, 2011, vol. 7, no. 5, p. 667-676., WOS*

2. [1.1] HE, L.L. - WANG, X. - LIU, B. - WANG, J. - SUN, Y.G. - XU, S.K. *Study on the sonodynamic activity and mechanism of promethazine hydrochloride by multi-spectroscopic techniques. In SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY. ISSN 1386-1425, 2011, vol. 81, no. 1, p. 698-705., WOS*

3. [1.1] KIM, Y.S. - RUBIO, V. - QI, J.J. - XIA, R.M. - SHI, Z.Z. - PETERSON, L. - TUNG, C.H. - O'NEILL, B.E. *Cancer treatment using an optically inert Rose Bengal derivative combined with pulsed focused ultrasound. In JOURNAL OF CONTROLLED RELEASE. ISSN 0168-3659, 2011, vol. 156, no. 3, p. 315-322., WOS*

4. [1.1] MILLER, D.L. - DOU, C.Y. *The influence of octyl beta-D-glucopyranoside on cell lysis induced by ultrasonic cavitation. In JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA. ISSN 0001-4966, 2011, vol. 130, no. 5, Part 2, SI, p. 3482-3488., WOS*

5. [1.1] SAZGARNIA, A. - SHANEI, A. - MEIBODI, N.T. - ESHGHI, H. - NASSIRLI, H. *A Novel Nanosonosensitizer for Sonodynamic Therapy In Vivo Study on a Colon Tumor Model. In JOURNAL OF ULTRASOUND IN MEDICINE. ISSN 0278-4297, 2011, vol. 30, no. 10, p. 1321-1329., WOS*

6. [1.1] WANG, X.B. - WANG, Y. - WANG, P. - CHENG, X.X. - LIU, Q.H. *Sonodynamically induced anti-tumor effect with protoporphyrin IX on hepatoma-22 solid tumor. In ULTRASONICS. ISSN 0041-624X, 2011, vol. 51, no. 5, p. 539-546., WOS*

ADCA94 MIŠÍK, Vladimír - GERGEL, Dalibor - ALOV, P. - ONDRIAŠ, Karol. An unusual temperature dependence of malondialdehyde formulation in Fe²⁺/H₂O₂-initiated lipid peroxidation of phosphatidylcholine liposomes. In Physiological Research, 1994, vol. 43, no. 3, p. 163-167. (0.300 - IF1993). (1994 - Current Contents). ISSN 0862-8408.

Citácie:

1. [1.1] WANG, C. - BOKKON, I. - DAI, J.P. - ANTAL, I. *Spontaneous and visible light-induced ultraweak photon emission from rat eyes. In BRAIN RESEARCH. ISSN 0006-8993, 2011, vol. 1369, p. 1-9., WOS*

ADCA95 MIŠÍK, Vladimír - RIESZ, Peter. Recent applications of EPR and spin trapping to sonochemical studies of organic liquids and aqueous solutions. In Ultrasonics Sonochemistry, 1996, vol. 3, iss. 3, p. S173-S186. (0.625 - IF1995). (1996 - Current Contents). ISSN 1350-4177.

Citácie:

1. [1.1] ROOZE, J. - GROOTE, R. - JAKOBS, R.T.M. - SIJBESMA, R.P. - VAN IERSEL, M.M. - REBROV, E.V. - SCHOUTEN, J.C. - KEURENTJES, J.T.F. *Mechanism of Ultrasound Scission of a Silver-Carbene Coordination Polymer. In*

- JOURNAL OF PHYSICAL CHEMISTRY B. ISSN 1520-6106, 2011, vol. 115, no. 38, p. 11038-11043., WOS*
- ADCA96 MIŠÍK, Vladimír - RIESZ, Peter. Free radical formation by ultrasound in organic liquids: a spin trapping and EPR study. In Journal of physical chemistry, 1994, vol. 98, no. 6, p.1634-1640. ISSN 0022-3654.
Citácie:
1. [1.1] AMBEDKAR, B. - NAGARAJAN, R. - JAYANTI, S. Ultrasonic coal-wash for de-sulfurization. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2011, vol. 18, no. 3, p. 718-726., WOS
- ADCA97 MIŠÍK, Vladimír - MIYOSHI, Norio - RIESZ, Peter. EPR spin-trapping study of the sonolysis of H₂O/D₂O mixtures: probing the temperatures of cavitation regions. In Journal of physical chemistry, 1995, vol. 99, no. 11, p. 3605-3611. (1995 - Current Contents). ISSN 0022-3654.
Citácie:
1. [1.1] ASHOKKUMAR, M. The characterization of acoustic cavitation bubbles - An overview. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2011, vol. 18, no. 4, SI, p. 864-872., WOS
2. [1.1] BROTHIE, A. - GRIESER, F. - ASHOKKUMAR, M. The Role of Salts in Acoustic Cavitation and the Use of Inorganic Complexes as Cavitation Probes. In THEORETICAL AND EXPERIMENTAL SONOCHEMISTRY INVOLVING INORGANIC SYSTEMS. New York, Springer 2011, p. 357-379. ISBN: 978-90-481-3886-9, WOS
3. [1.1] EMADI, H. - SALAVATI-NIASARI, M. - DAVAR, F. Synthesis and characterisation of silver sulphide nanoparticles by ultrasonic method. In MICRO & NANO LETTERS. ISSN 1750-0443, 2011, vol. 6, no. 11, p. 909-913., WOS
4. [1.1] LEONG, T. - ASHOKKUMAR, M. - KENTISH, S. THE FUNDAMENTALS OF POWER ULTRASOUND - A REVIEW. In ACOUSTICS AUSTRALIA. ISSN 0814-6039, 2011, vol. 39, no. 2, p. 54-63., WOS
5. [1.1] PARAST, M.S.Y. - MORSALI, A. Sonochemical-assisted synthesis of nano-structured indium(III) hydroxide and oxide. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2011, vol. 18, no. 1, p. 375-381., WOS
- ADCA98 MIŠÍK, Vladimír - RIESZ, Peter. Nitric oxide formation by ultrasound in aqueous solution. In Journal of physical chemistry, 1996, vol. 100, no. 45, p. 17986-17994. (3.395 - IF1995). ISSN 0022-3654.
Citácie:
1. [1.1] PANKAJ - CHAUHAN, M. Sonochemical Study on Multivalent Cations (Fe, Cr, and Mn). In THEORETICAL AND EXPERIMENTAL SONOCHEMISTRY INVOLVING INORGANIC SYSTEMS. Berlin, Springer 2011, p. 273-285. ISBN: 978-90-481-3886-9, WOS
- ADCA99 MIŠÍK, Vladimír - MIYOSHI, Norio - RIESZ, Peter. Effects of cysteamine and cystamine on the sonochemical accumulation of hydrogen peroxide - implications for their mechanisms of action in ultrasound-exposed cells. In Free Radical Biology and Medicine, 1999, vol. 26, nos. 7/8, p. 961-967. (4.348 - IF1998). (1999 - Current Contents). ISSN 0891-5849.
Citácie:
1. [1.1] CAMPOS, L.A. - LIU, J.W. - WANG, X. - RAMANATHAN, R. - ENGLISH, D.S. - MUNOZ, V. A photoprotection strategy for microsecond-resolution single-molecule fluorescence spectroscopy. In NATURE METHODS. ISSN 1548-7091, 2011, vol. 8, no. 2, p. 143-U63., WOS
- ADCA100 MIŠÍK, Vladimír - RIESZ, Peter. Peroxyl radical formation in aqueous solutions of N,N-dimethylformamide, N-methylformamide, and dimethylsulfoxide by ultrasound: implications for sonosensitized cell killing. In Free Radical Biology and

Medicine, 1996, vol. 20, no.1, p.129-138. (4.089 - IF1995). (1996 - Current Contents). ISSN 0891-5849.

Citácie:

1. [1.1] AMBEDKAR, B. - NAGARAJAN, R. - JAYANTI, S. Investigation of High-Frequency, High-Intensity Ultrasonics for Size Reduction and Washing of Coal in Aqueous Medium. In INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH. ISSN 0888-5885, 2011, vol. 50, no. 23, p. 13210-13219., WOS
2. [1.1] KAROUI, H. - CHALIER, F. - FINET, J.P. - TORDO, P. DEPMPO: an efficient tool for the coupled ESR-spin trapping of alkylperoxyl radicals in water. In ORGANIC & BIOMOLECULAR CHEMISTRY. ISSN 1477-0520, 2011, vol. 9, no. 7, p. 2473-2480., WOS

ADCA101 MIŠÍK, Vladimír - MAK, I. Tong - STAFFORD, Richard E. - WEGLIČKI, William B. Reactions of captopril and epicaptopril with transition metal ions and hydroxyl radicals: an EPR spectroscopy study. In Free Radical Biology and Medicine, 1993, vol.15, no.6, p.611-619. ISSN 0891-5849.

Citácie:

1. [1.1] LIU, B. - HE, Y. - DUAN, C.F. - LI, N. - CUI, H. Platinum nanoparticle-catalyzed lucigenin-hydrazine chemiluminescence. In JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY. ISSN 1010-6030, 2011, vol. 217, no. 1, p. 62-67., WOS

ADCA102 MIŠÍK, Vladimír - BEŽÁKOVÁ, Lýdia - MÁLEKOVÁ, Ľubica - KOŠŤÁLOVÁ, Daniela. Lipoxigenase inhibition and antioxidant properties of protoberberine and aporphine alkaloids isolated from Mahonia-aquifolium. In Planta Medica : an international journal of natural products and medicinal plant research, 1995, vol. 61, no. 4, p. 372-373. (1995 - Current Contents). ISSN 0032-0943.

Citácie:

1. [1.1] HU, P.F. - CHEN, W.P. - TANG, J.L. - BAO, J.P. - WU, L.D. Protective Effects of Berberine in an Experimental Rat Osteoarthritis Model. In PHYTOTHERAPY RESEARCH. ISSN 0951-418X, 2011, vol. 25, no. 6, p. 878-885., WOS
2. [1.1] ZENG, H.W. - DOU, S.S. - ZHAO, J. - FAN, S.Y. - YUAN, X. - ZHU, S.L. - LI, L. - ZHANG, W.D. - LIU, R.H. The inhibitory activities of the components of Huang-Lian-Jie-Du-Tang (HLJDT) on eicosanoid generation via lipoxigenase pathway. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2011, vol. 135, no. 2, p. 561-568., WOS
3. [1.2] SAKLANI, S. - CHANDRA, S. Berberis asiatica: Potential fruits as nutraceuticals. In INTERNATIONAL JOURNAL OF PHARMACY AND TECHNOLOGY. ISSN 0975 766X, 2011, vol. 3, no. 4, p. 1586-1604, SCOPUS

ADCA103 MIŠÍK, Vladimír - RIESZ, Peter. EPR study of free radicals induced by ultrasound in organic liquids II. Probing the temperatures of cavitation regions. In Ultrasonics Sonochemistry, 1996, vol. 3, iss. 1, p. 25-37. (0.625 - IF1995). (1996 - Current Contents). ISSN 1350-4177.

Citácie:

1. [1.1] ASHOKKUMAR, M. The characterization of acoustic cavitation bubbles - An overview. In ULTRASONICS SONOCHEMISTRY. ISSN 1350-4177, 2011, vol. 18, no. 4, SI, p. 864-872., WOS

ADCA104 MIŠÍK, Vladimír - STAŠKO, Andrej - GERGEL, Dalibor - ONDRIAŠ, Karol. Spin-trapping and antioxidant properties of illuminated and nonilluminated nifedipine and nimodipine in heart homogenate and model system. In Molecular Pharmacology, 1991, vol. 40, iss. 3, p. 435-439. ISSN 0026-895X.

Citácie:

1. [1.1] HORINOUCI, Y. - TSUCHIYA, K. - TAOKA, C. - TAJIMA, S. - KIHARA,

- Y. - MATSUDA, Y. - SHISHIDO, K. - YOSHIDA, M. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. Antioxidant Effects of Photodegradation Product of Nifedipine. In CHEMICAL & PHARMACEUTICAL BULLETIN. ISSN 0009-2363, 2011, vol. 59, no. 2, p. 208-214., WOS*
2. [1.2] FUKUHARA, Y. - TSUCHIYA, K. - HORINOUCI, Y. - TAJIMA, S. - KIHARA, Y. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. Protective effect of photodegradation product of nifedipine against tumor necrosis factor alpha-induced oxidative stress in human glomerular endothelial cells. In JOURNAL OF MEDICAL INVESTIGATION. ISSN 1343-1420, 2011, vol. 58, no. 1-2, p. 118-126, SCOPUS
- ADCA105 MIŠÍK, Vladimír - ONDRIAŠ, Karol - STAŠKO, Andrej. EPR spectroscopy of free radical intermediates of antiarrhythmic-antihypoxic drug stobadine, a pyridoindole derivative. In Life Sciences, 1999, vol. 65, no. 18/19, p. 1879-1881. (1.937 - IF1998). (1999 - Current Contents). ISSN 0024-3205.
- Citácie:
1. [1.1] ESTEVAO, M.S. - CARVALHO, L.C. - FERREIRA, L.M. - FERNANDES, E. - MARQUES, M.M.B. Analysis of the antioxidant activity of an indole library: cyclic voltammetry versus ROS scavenging activity. In TETRAHEDRON LETTERS. ISSN 0040-4039, 2011, vol. 52, no. 1, p. 101-106., WOS
- ADCA106 MITAŠÍKOVÁ, Marcela - ŠMIDOVÁ, Simona - MACSALIOVÁ, Adela - KNEZL, Vladimír - DLUGOŠOVÁ, Katarína - OKRUHLICOVÁ, Ľudmila - WEISMANN, Peter - TRIBULOVÁ, Narcis. Aged male and female spontaneously hypertensive rats benefit from n-3 polyunsaturated fatty acids supplementation. In Physiological Research, 2008, vol. 57, suppl. 2, p. S39- S48. (1.505 - IF2007). (2008 - Current Contents). ISSN 0862-8408.
- Citácie:
1. [1.1] COTTIN, S.C. - SANDERS, T.A. - HALL, W.L. The differential effects of EPA and DHA on cardiovascular risk factors. In PROCEEDINGS OF THE NUTRITION SOCIETY. ISSN 0029-6651, 2011, vol. 70, no. 2, p. 215-231, WOS
- ADCA107 MIYOSHI, Norio - MIŠÍK, Vladimír - FUKUDA, M. - RIESZ, Peter. Effect of gallium-porphyrin analog ATX-70 on nitroxide formation from a cyclic secondary amine by ultrasound- on the mechanism of sonodynamic activation. In Radiation Research : official journal of the Radiation Research Society, 1995, vol. 143, iss. 2, p. 194-202. (1995 - Current Contents). ISSN 0033-7587.
- Citácie:
1. [1.1] BAKHSHIZADEH, M. - SAZGARNIA, A. - RAJABI, O. - KHOOEI, A.R. - ESMAILY, H. Effects of Combined Sonodynamic and Photodynamic Therapies on a Colon Carcinoma Tumor Model. In IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES. ISSN 2008-3866, 2011, vol. 14, no. 3, p. 205-212., WOS
2. [1.1] SHIBAGUCHI, H. - TSURU, H. - KUROKI, M. - KUROKI, M. Sonodynamic Cancer Therapy: A Non-invasive and Repeatable Approach Using Low-intensity Ultrasound with a Sonosensitizer. In ANTICANCER RESEARCH. ISSN 0250-7005, 2011, vol. 31, no. 7, SI, p. 2425-2429., WOS
- ADCA108 MOLLNAU, Hanke - WENDT, Maria - SZÖCS, Katalin - LASSÉGUE, Bernard - SCHULZ, Eberhard - OELZE, Mathias - LI, Huige - BODENSCHATZ, Martin - AUGUST, Michael - KLESCHYOV, Andrei L. - TSILIMINGAS, Nikolaus - WALTER, Ulrich - FÖRSTERMANN, Ulrich - MEINERTZ, Thomas - GRIENDLING, Kathy K. - MÜNZEL, Thomas. Effects of angiotensin II infusion on the expression and function of NAD(P)H oxidase and components of nitric oxide/cGMP signaling. In Circulation research. - Dallas : American Heart Association, Inc., 2002, vol. 90, no. 4, p. e58 - e65. (9.213 - IF2001). (2002 - Current

Contents). ISSN 0009-7330.

Citácie:

1. [1.1] BARNES, J.L. - GORIN, Y. *Myofibroblast differentiation during fibrosis: role of NAD(P)H oxidases. In KIDNEY INTERNATIONAL. ISSN 0085-2538, 2011, vol. 79, no. 9, p. 944-956., WOS*
2. [1.1] BRIONES, A.M. - TABET, F. - CALLERA, G.E. - MONTEZANO, A.C. - YOGI, A. - HE, Y. - QUINN, M.T. - SALAICES, M. - TOUYZ, R.M. *Differential regulation of Nox1, Nox2 and Nox4 in vascular smooth muscle cells from WKY and SHR. In JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION. ISSN 1933-1711, 2011, vol. 5, no. 3, p. 137-153., WOS*
3. [1.1] CINGOLANI, H.E. - ENNIS, I.L. - AIELLO, E.A. - PEREZ, N.G. *Role of autocrine/paracrine mechanisms in response to myocardial strain. In PFLUGERS ARCHIV-EUROPEAN JOURNAL OF PHYSIOLOGY. ISSN 0031-6768, 2011, vol. 462, no. 1, p. 29-38., WOS*
4. [1.1] CZIRAKI, A. - AJTAY, Z. - NEMETH, A. - LENKEY, Z. - SULYOK, E. - SZABADOS, S. - ALOTTI, N. - MARTENS-LOBENHOFFER, J. - SZABO, C. - BODE-BOGER, S.M. *Effects of coronary revascularization with or without cardiopulmonary bypass on plasma levels of asymmetric dimethylarginine. In CORONARY ARTERY DISEASE. ISSN 0954-6928, 2011, vol. 22, no. 4, p. 245-252., WOS*
5. [1.1] DAI, D.F. - CHEN, T. - SZETO, H. - NIEVES-CINTRON, M. - KUTYAVIN, V. - SANTANA, L.F. - RABINOVITCH, P.S. *Mitochondrial Targeted Antioxidant Peptide Ameliorates Hypertensive Cardiomyopathy. In JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. ISSN 0735-1097, 2011, vol. 58, no. 1, p. 73-82., WOS*
6. [1.1] DAI, D.F. - JOHNSON, S.C. - VILLARIN, J.J. - CHIN, M.T. - NIEVES-CINTRON, M. - CHEN, T. - MARCINEK, D.J. - DORN, G.W. - KANG, Y.J. - PROLLA, T.A. - SANTANA, L.F. - RABINOVITCH, P.S. *Mitochondrial Oxidative Stress Mediates Angiotensin II-Induced Cardiac Hypertrophy and G alpha q Overexpression-Induced Heart Failure. In CIRCULATION RESEARCH. ISSN 0009-7330, 2011, vol. 108, no. 7, p. 837-U173., WOS*
7. [1.1] DE CAVANAGH, E.M.V. - INSERRA, F. - FERDER, L. *Angiotensin II blockade: a strategy to slow ageing by protecting mitochondria?. In CARDIOVASCULAR RESEARCH. ISSN 0008-6363, 2011, vol. 89, no. 1, p. 31-40., WOS*
8. [1.1] DESHPANDE, D.D. - JANERO, D.R. - AMIJI, M.M. *Therapeutic strategies for endothelial dysfunction. In EXPERT OPINION ON BIOLOGICAL THERAPY. ISSN 1471-2598, 2011, vol. 11, no. 12, p. 1637-1654., WOS*
9. [1.1] DURAND, M.J. - LOMBARD, J.H. *Introgression of the Brown Norway Renin Allele Onto the Dahl Salt-Sensitive Genetic Background Increases Cu/Zn SOD Expression in Cerebral Arteries. In AMERICAN JOURNAL OF HYPERTENSION. ISSN 0895-7061, 2011, vol. 24, no. 5, p. 563-568., WOS*
10. [1.1] FU, J.Y. - QIAN, L.B. - ZHU, L.G. - LIANG, H.T. - TAN, Y.N. - LU, H.T. - LU, J.F. - WANG, H.P. - XIA, Q. *Betulinic acid ameliorates endothelium-dependent relaxation in L-NAME-induced hypertensive rats by reducing oxidative stress. In EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES. ISSN 0928-0987, 2011, vol. 44, no. 3, p. 385-391., WOS*
11. [1.1] GARDIKIS, Y. - TSOUNGAS, P.G. - POTAMITIS, C. - ZERVOU, M. - CORDOPATIS, P. *Xanthenes in heterocyclic synthesis. An efficient route for the synthesis of C-3 o-hydroxyaryl substituted 1,2-benzisoxazoles and their N-oxides, potential scaffolds for angiotensin(II) antagonist hybrid peptides. In HETEROCYCLES. ISSN 0385-5414, 2011, vol. 83, no. 5, p. 1077-1091., WOS*

12. [1.1] GIACHINI, F.R. - LIMA, V.V. - CARNEIRO, F.S. - TOSTES, R.C. - WEBB, R.C. Decreased cGMP Level Contributes to Increased Contraction in Arteries From Hypertensive Rats Role of Phosphodiesterase 1. In *HYPERTENSION*. ISSN 0194-911X, 2011, vol. 57, no. 3, p. 655-663., WOS
13. [1.1] GIELIS, J.F. - LIN, J.Y. - WINGLER, K. - VAN SCHIL, P.E.Y. - SCHMIDT, H.H. - MOENS, A.L. Pathogenetic role of eNOS uncoupling in cardiopulmonary disorders. In *FREE RADICAL BIOLOGY AND MEDICINE*. ISSN 0891-5849, 2011, vol. 50, no. 7, p. 765-776., WOS
14. [1.1] HAN, Y. - FAN, Z.D. - YUAN, N. - XIE, G.Q. - GAO, J.A. - DE, W. - GAO, X.Y. - ZHU, G.Q. Superoxide anions in the paraventricular nucleus mediate the enhanced cardiac sympathetic afferent reflex and sympathetic activity in renovascular hypertensive rats. In *JOURNAL OF APPLIED PHYSIOLOGY*. ISSN 8750-7587, 2011, vol. 110, no. 3, p. 646-652., WOS
15. [1.1] HUANG, B.S. - ZHENG, H. - TAN, J.H. - PATEL, K.P. - LEENEN, F.H.H. Regulation of hypothalamic renin-angiotensin system and oxidative stress by aldosterone. In *EXPERIMENTAL PHYSIOLOGY*. ISSN 0958-0670, 2011, vol. 96, no. 10, p. 1028-1038., WOS
16. [1.1] KAGOTA, S. - TADA, Y. - NEJIME, N. - NAKAMURA, K. - KUNITOMO, M. - SHINOZUKA, K. Telmisartan provides protection against development of impaired vasodilation independently of metabolic effects in SHRSP.Z-Lepr(fa)/IzmDmcr rats with metabolic syndrome. In *CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY*. ISSN 0008-4212, 2011, vol. 89, no. 5, p. 355-363., WOS
17. [1.1] KANG, K.T. - SULLIVAN, J.C. - SPRADLEY, F.T. - D'USCIO, L.V. - KATUSIC, Z.S. - POLLOCK, J.S. Antihypertensive therapy increases tetrahydrobiopterin levels and NO/cGMP signaling in small arteries of angiotensin II-infused hypertensive rats. In *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*. ISSN 0363-6135, 2011, vol. 300, no. 3, p. H718-H724., WOS
18. [1.1] KOHAN, D.E. - ROSSI, N.F. - INSCHO, E.W. - POLLOCK, D.M. Regulation of Blood Pressure and Salt Homeostasis by Endothelin. In *PHYSIOLOGICAL REVIEWS*. ISSN 0031-9333, 2011, vol. 91, no. 1, p. 1-77., WOS
19. [1.1] LU, G. - HUANG, L. - ZHANG, X.L. - WANG, S.Z. - HONG, Y. - HU, Z. - GENG, D.Y. Influence of Hemodynamic Factors on Rupture of Intracranial Aneurysms: Patient-Specific 3D Mirror Aneurysms Model Computational Fluid Dynamics Simulation. In *AMERICAN JOURNAL OF NEURORADIOLOGY*. ISSN 0195-6108, 2011, vol. 32, no. 7, p. 1255-1261., WOS
20. [1.1] MANDRAFFINO, G. - SARDO, M.A. - RIGGIO, S. - LODDO, S. - IMBALZANO, E. - ALIBRANDI, A. - SAITTA, C. - CINQUEGRANI, M. - MORMINA, E.M. - SAITTA, A. Circulating progenitor cells are increased in newly diagnosed untreated hypertensive patients with arterial stiffening but normal carotid intima-media thickness. In *HYPERTENSION RESEARCH*. ISSN 0916-9636, 2011, vol. 34, no. 7, p. 876-883., WOS
21. [1.1] MARKOV, K.M. Nitrous Oxide and Atherosclerosis. Pharmacotherapy of Atherosclerosis and Nitrous Oxide. In *KARDIOLOGIYA*. ISSN 0022-9040, 2011, vol. 51, no. 3, p. 86-94., WOS
22. [1.1] MASHA, A. - DINATALE, S. - ALLASIA, S. - MARTINA, V. Role of the Decreased Nitric Oxide Bioavailability in the Vascular Complications of Diabetes Mellitus. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2011, vol. 12, no. 9, p. 1354-1363., WOS
23. [1.1] NEDIANI, C. - RAIMONDI, L. - BORCHI, E. - CERBAI, E. Nitric

- Oxide/Reactive Oxygen Species Generation and Nitroso/Redox Imbalance in Heart Failure: From Molecular Mechanisms to Therapeutic Implications. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2011, vol. 14, no. 2, p. 289-331., WOS*
24. [1.1] *SENCHENKOVA, E.Y. - RUSSELL, J. - KURMAEVA, E. - OSTANIN, D. - GRANGER, D.N. Role of T Lymphocytes in Angiotensin II-Mediated Microvascular Thrombosis. In HYPERTENSION. ISSN 0194-911X, 2011, vol. 58, no. 5, p. 959-U577., WOS*
25. [1.1] *SHIMADA, K. - MURAYAMA, T. - YOKODE, M. - KITA, T. - FUJITA, M. - KISHIMOTO, C. Olmesartan, a novel angiotensin II type 1 receptor antagonist, reduces severity of atherosclerosis in apolipoprotein E deficient mice associated with reducing superoxide production. In NUTRITION METABOLISM AND CARDIOVASCULAR DISEASES. ISSN 0939-4753, 2011, vol. 21, no. 9, p. 672-678., WOS*
26. [1.1] *SPARKS, M.A. - PARSONS, K.K. - STEGBAUER, J. - GURLEY, S.B. - VIVEKANANDAN-GIRI, A. - FORTNER, C.N. - SNOUWAERT, J. - RAASCH, E.W. - GRIFFITHS, R.C. - HAYSTEAD, T.A.J. - LE, T.H. - PENNATHUR, S. - KOLLER, B. - COFFMAN, T.M. Angiotensin II Type 1A Receptors in Vascular Smooth Muscle Cells Do Not Influence Aortic Remodeling in Hypertension. In HYPERTENSION. ISSN 0194-911X, 2011, vol. 57, no. 3, p. 577-U413., WOS*
27. [1.1] *WANG, W.Z. - PANG, L. - PALADE, P. Angiotensin II Upregulates Ca(V)1.2 Protein Expression in Cultured Arteries via Endothelial H(2)O(2) Production. In JOURNAL OF VASCULAR RESEARCH. ISSN 1018-1172, 2011, vol. 48, no. 1, p. 67-78., WOS*
28. [1.1] *WANG, Y. - ZHANG, M.S. - LIU, Y.F. - LIU, Y. - CHEN, M. The effect of nebivolol on asymmetric dimethylarginine system in spontaneously hypertension rats. In VASCULAR PHARMACOLOGY. ISSN 1537-1891, 2011, vol. 54, no. 1-2, p. 36-43., WOS*
29. [1.1] *WHALEY-CONNELL, A. - MCCULLOUGH, P.A. - SOWERS, J.R. The Role of Oxidative Stress in the Metabolic Syndrome. In REVIEWS IN CARDIOVASCULAR MEDICINE. ISSN 1530-6550, 2011, vol. 12, no. 1, p. 21-29., WOS*
30. [1.1] *WILLAM, C. - DITTING, T. - VEELKEN, R. - JACOBI, J. Cardio-Renal Connection: The Role of Hypoxia and Oxidative Stress. In STUDIES ON RENAL DISORDERS. Book Series: Oxidative Stress in Applied Basic Research and Clinical Practice. New York, Springer 2011, p. 499-533. ISBN: 978-1-60761-856-0, WOS*

ADCA109 MOTHEOVÁ, Oľga - BEZEK, Štefan - ĎURIŠOVÁ, Mária - FABEROVÁ, Viera - ZEMÁNEK, Marián - MISÁNIKOVÁ, K. - TRNOVEC, Tomáš. The pharmacokinetics of exaprolol and propranolol in rats with interrupted enterohepatic circulation. In *Biopharmaceutics & Drug Disposition*, 1986, vol. 7, no. 2, p.151-162. ISSN 0142-2782.

Citácie:

1. [1.1] *CLARK, G.T. - GIDDENS, G. - BURROWS, L. - STRAND, C. Utilization of dried blood spots within drug discovery: modification of a standard DiLab (R) AccuSampler (R) to facilitate automatic dried blood spot sampling. In LABORATORY ANIMALS. ISSN 0023-6772, 2011, vol. 45, no. 2, p. 124-126., WOS*

ADCA110 MUNZAR, Patrik - NOSÁL, Radomír - GOLDBERG, Steven R. Potentiation of the discriminative-stimulus effects of methamphetamine by the histamine H3 receptor antagonist thioperamide in rats. In *European Journal of Pharmacology*, 1998, vol. 363, nos. 2/3, p. 93-101. (1.960 - IF1997). (1998 - Current Contents). ISSN 0014-

2999.

Citácie:

1. [1.1] ACEVEDO, S.F. - RABER, J. Histamine-dependent behavioral response to methamphetamine in 12-month-old male mice. In *BRAIN RESEARCH*. ISSN 0006-8993, 2011, vol. 1393, p. 23-30., WOS

2. [1.1] NUUTINEN, S. - LINTUNEN, M. - VANHANEN, J. - OJALA, T. - ROZOV, S. - PANULA, P. Evidence for the Role of Histamine H3 Receptor in Alcohol Consumption and Alcohol Reward in Mice. In *NEUROPSYCHOPHARMACOLOGY*. ISSN 0893-133X, 2011, vol. 36, no. 10, p. 2030-2040., WOS

3. [1.1] WOOTERS, T.E. - DWOSKIN, L.P. - BARDO, M.T. Discriminative stimulus effects of NMDA, AMPA, and mGluR5 glutamate receptor ligands in methamphetamine-trained rats. In *BEHAVIOURAL PHARMACOLOGY*. ISSN 0955-8810, 2011, vol. 22, no. 5-6, p. 516-524., WOS

ADCA111 NAVAROVÁ, Jana - SCHMIDTOVÁ, Miroslava - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Selected biochemical variables in a model of neonatal anoxia in rats. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 78 - 81. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.

Citácie:

1. [1.1] POHANKA, M. - BANDOUCHOVA, H. - VLCKOVA, K. - KARASOVA, J.Z. - KUCA, K. - DAMKOVA, V. - PECKOVA, L. - VITULA, F. - PIKULA, J. Square wave voltammetry on screen printed electrodes: comparison to ferric reducing antioxidant power in plasma from model laboratory animal (Grey Partridge) and comparison to standard antioxidants. In *JOURNAL OF APPLIED BIOMEDICINE*. ISSN 1214-021X, 2011, vol. 9, no. 2, p. 103-109., WOS

ADCA112 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - PEČIVOVÁ, Jana. Effect of chloroquine on isolated mast cells. In *Agents and Actions : a Swiss journal of pharmacology*, 1991, vol. 33, no.1/2, p. 37-40. ISSN 0065-4299.

Citácie:

1. [1.1] PATEL, K.N. - DONG, X.Z. Itch: Cells, Molecules, and Circuits. In *ACS CHEMICAL NEUROSCIENCE*. ISSN 1948-7193, 2011, vol. 2, no. 1, Sp. Iss. SI, p. 17-25., WOS

ADCA113 NOSÁL, Radomír - NOVOTNÝ, Jozef - ŠIKL, Dobroslav. The effect of glycoprotein from *Candida albicans* on isolated rat mast cells. In *Toxicon*, 1974, vol.12, no. 2, p. 103-106. ISSN 0041-0101.

Citácie:

1. [1.1] KATIRAEI, P. - BULTRON, G. Need for a comprehensive medical approach to the neuro-immuno-gastroenterology of irritable bowel syndrome. In *WORLD JOURNAL OF GASTROENTEROLOGY*. ISSN 1007-9327, 2011, vol. 17, no. 23, p. 2791-2800., WOS

ADCA114 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - HOLOMÁŇOVÁ, Dagmar. On the pharmacology and toxicology of neutrophils. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 148 - 151. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.

Citácie:

1. [1.1] JOHANSEN, P. - WEISS, A. - BUNTER, A. - WAECKERLE-MEN, Y. - FETTELSCHOSS, A. - ODERMATT, B. - KUNDIG, T.M. Clemastine causes immune suppression through inhibition of extracellular signal-regulated kinase-dependent proinflammatory cytokines. In *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*. ISSN 0091-6749, 2011, vol. 128, no. 6, p. 1286-1294., WOS

- ADCA115 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PETRÍKOVÁ, Margita - FÁBRYOVÁ, Viera. Antiplatelet and antiphagocyte activity of H1-antihistamines. In *Inflammation research*. - Basel : Birkhäuser, 2005, vol. 54, suppl. 1, p. S19 - S20. (1.450 - IF2004). (2005 - Current Contents). ISSN 1023-3830.
Citácie:
1. [1.1] *RAGHAVENDRA, G.M. - HARSHA, K.B. - VINAYA, K. - MANTELINGU, K. - RANGAPPA, K.S. Novel and Efficient Method for the Synthesis of Racemic Fexofenadine. In SYNTHETIC COMMUNICATIONS. ISSN 0039-7911, 2011, vol. 41, no. 15, p. 2296-2303., WOS*
2. [1.2] *KOUNIS, N.G. - MAZARAKIS, A. - TSIGKAS, G. - GIANNOPOULOS, S. - OUDEVENOS, J. Kounis syndrome: A new twist on an old disease. In FUTURE CARDIOLOGY. ISSN 1479-6678, 2011, vol. 7, no. 6, p. 805-824, SCOPUS*
- ADCA116 NOSÁL, Radomír - DRÁBIKOVÁ, Katarína - ČÍŽ, Milan - LOJEK, Antonín - DANIHELOVÁ, Edita. Effect of H1-antagonist Dithiaden® on human PMN-leukocyte aggregation and chemiluminescence is stimulus-dependent. In *Inflammation research*. - Basel : Birkhäuser, 2002, vol. 51, no. 10, p. 557-562. (1.560 - IF2001). (2002 - Current Contents). ISSN 1023-3830.
Citácie:
1. [1.2] *BOCHEVA, G. - BOYADJIEVA, N. Epigenetic regulation of fetal bone development and placental transfer of nutrients: Progress for osteoporosis. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 167-172, SCOPUS*
- ADCA117 NOSÁLOVÁ, Viera - MACHOVÁ, Jana - BABUŠOVÁ, Anna. Protective action of vinpocetine against experimentally induced gastric damage in rats. In *Arzneimittel-Forschung/Drug Research : special section: biotechnology in drug research*, II, vol. 43, no. 9 (1993). ISSN 0004-4172.
Citácie:
1. [1.1] *PATYAR, S. - PRAKASH, A. - MODI, M. - MEDHI, B. Role of vinpocetine in cerebrovascular diseases. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 3, p. 618-628., WOS*
- ADCA118 NOSÁLOVÁ, Viera - ZEMAN, Michal - ČERNÁ, Silvia - NAVAROVÁ, Jana - ZAKÁLOVÁ, Monika. Protective effect of melatonin in acetic acid induced colitis in rats. In *Journal of pineal research*, 2007, vol. 42, p. 364 - 370. (4.228 - IF2006). (2007 - Current Contents). ISSN 0742-3098.
Citácie:
1. [1.1] *CHEN, C.Q. - FICHNA, J. - BASHASHATI, M. - LI, Y.Y. - STORR, M. Distribution, function and physiological role of melatonin in the lower gut. In WORLD JOURNAL OF GASTROENTEROLOGY. ISSN 1007-9327, 2011, vol. 17, no. 34, p. 3888-3898., WOS*
2. [1.1] *CHOJNACKI, C. - WISNIEWSKA-JAROSINSKA, M. - WALECKA-KAPICA, E. - KLUPINSKA, G. - JAWOREK, J. - CHOJNACKI, J. Evaluation of melatonin effectiveness in the adjuvant treatment of ulcerative colitis. In JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. ISSN 0867-5910, 2011, vol. 62, no. 3, p. 327-334., WOS*
3. [1.1] *MOTILVA, V. - GARCIA-MAURINO, S. - TALERO, E. - ILLANES, M. New paradigms in chronic intestinal inflammation and colon cancer: role of melatonin. In JOURNAL OF PINEAL RESEARCH. ISSN 0742-3098, 2011, vol. 51, no. 1, p. 44-60., WOS*
4. [1.1] *MOZAFFARI, S. - ABDOLLAHI, M. Melatonin, a Promising Supplement in Inflammatory Bowel Disease: A Comprehensive Review of Evidences. In CURRENT PHARMACEUTICAL DESIGN. ISSN 1381-6128, 2011, vol. 17, no. 38, p. 4372-4378., WOS*

5. [1.1] TAHAN, G. - GRAMIGNOLI, R. - MARONGIU, F. - AKTOLGA, S. - CETINKAYA, A. - TAHAN, V. - DORKO, K. *Melatonin Expresses Powerful Anti-inflammatory and Antioxidant Activities Resulting in Complete Improvement of Acetic-Acid-Induced Colitis in Rats. In DIGESTIVE DISEASES AND SCIENCES. ISSN 0163-2116, 2011, vol. 56, no. 3, p. 715-720., WOS*

ADCA119 NOSÁLOVÁ, Viera - ČERNÁ, Silvia - BAUER, Viktor. Effect of N-acetylcysteine on colitis induced by acetic acid in rats. In *General Pharmacology : the Vascular System. - New York : Elsevier Science, 2000, vol. 35, p. 77-81. (1.105 - IF1999). (2000 - Current Contents). ISSN 0306-3623.*

Citácie:

1. [1.1] KANODIA, L. - BORGOHAIN, M. - DAS, S. *Effect of fruit extract of Fragaria vesca L. on experimentally induced inflammatory bowel disease in albino rats. In INDIAN JOURNAL OF PHARMACOLOGY. ISSN 0253-7613, 2011, vol. 43, no. 1, p. 18-21., WOS*

2. [1.1] THIPPESWAMY, B.S. - MAHENDRAN, S. - BIRADAR, M.I. - RAJ, P. - SRIVASTAVA, K. - BADAMI, S. - VEERAPUR, V.P. *Protective effect of embelin against acetic acid induced ulcerative colitis in rats. In EUROPEAN JOURNAL OF PHARMACOLOGY. ISSN 0014-2999, 2011, vol. 654, no. 1, p. 100-105., WOS*

3. [1.2] DUTTA, S. - DAS, S. *Effect of the leaves of Psidium guajava Linn. on experimentally induced colitis in animal models. In INTERNATIONAL JOURNAL OF GREEN PHARMACY. ISSN 0973-8258, 2011, vol. 5, no. 1, p. 55-60, SCOPUS*

ADCA120 NOSÁLOVÁ, Viera - BOBEK, Pavel - ČERNÁ, Silvia - GALBAVÝ, Štefan - ŠTVRTINA, Svetoslav. Effects of pleuran (beta-glucan isolated from *Pleurotus ostreatus*) on experimental colitis in rats. In *Physiological research. - Praha : Institute of Physiology, Academy of Sciences of the Czech Republic, 2001, vol. 50, issue 6, p. 575-581. (1.366 - IF2000). (2001 - Current Contents). ISSN 0862-8408.*

Citácie:

1. [1.1] ISHII, P.L. - PRADO, C.K. - MAURO, M.D. - CARREIRA, C.M. - MANTOVANI, M.S. - RIBEIRO, L.R. - DICI, J.B. - OLIVEIRA, R.J. *Evaluation of Agaricus blazei in vivo for antigenotoxic, anticarcinogenic, phagocytic and immunomodulatory activities. In REGULATORY TOXICOLOGY AND PHARMACOLOGY. ISSN 0273-2300, 2011, vol. 59, no. 3, p. 412-422., WOS*

2. [1.1] ROVENSKY, J. - STANCIKOVA, M. - SVIK, K. - BAUEROVA, K. - JURCOVICOVA, J. *The effects of beta-glucan isolated from Pleurotus ostreatus on methotrexate treatment in rats with adjuvant arthritis. In RHEUMATOLOGY INTERNATIONAL. ISSN 0172-8172, 2011, vol. 31, no. 4, p. 507-511., WOS*

3. [1.1] ZILINSKAS, J. - ZEKONIS, J. - ZEKONIS, G. - SADZEVICIENE, R. - SAPRAGONIENE, M. - NAVICKAITE, J. - BARZDZIUKAITE, I. *Inhibition of peripheral blood neutrophil oxidative burst in periodontitis patients with a homeopathic medication Traumeel S. In MEDICAL SCIENCE MONITOR. ISSN 1234-1010, 2011, vol. 17, no. 5, p. CR284-CR291., WOS*

ADCA121 OKRUHLICOVÁ, Ľudmila - TRIBULOVÁ, Narcis - WEISMANN, Peter - SOTNÍKOVÁ, Ružena. Ultrastructure and histochemistry of rat myocardial capillary endothelial cells in response to diabetes and hypertension. In *Cell research. - Shanghai : Inst. biochemistry & cell biology, 2005, vol. 15, p. 532 - 538. (1.936 - IF2004). (2005 - Current Contents). ISSN 1001-0602.*

Citácie:

1. [1.1] MATHEEUSSEN, V. - BAERTS, L. - DE MEYER, G. - DE KEULENAER, G. - VAN DER VEKEN, P. - AUGUSTYNS, K. - DUBOIS, V. - SCHARPE, S. - DE MEESTER, I. *Expression and spatial heterogeneity of dipeptidyl peptidases in*

- endothelial cells of conduct vessels and capillaries. In BIOLOGICAL CHEMISTRY. ISSN 1431-6730, 2011, vol. 392, no. 3, p. 189-198., WOS*
- ADCA122 OKRUHLICOVÁ, Ľudmila - SOTNÍKOVÁ, Ružena - ŠTEFEK, Milan - TRIBULOVÁ, Narcis - WEISMANN, Peter - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena. L-arginine reduces structural remodeling in the diabetic rat myocardium. In Methods and Findings in Experimental and Clinical Pharmacology. - Barcelona : Prous Science, 2002, vol. 24, no. 4, p. 201-207. (0.644 - IF2001). (2002 - Current Contents). ISSN 0379-0355.
Citácie:
1. [1.2] TAPPIA, P.S. - THLIVERIS, J. - XU, Y.J. - AROUTIOUNOVA, N. - DHALLA, N.S. Effects of amino acid supplementation on myocardial cell damage and cardiac function in diabetes. In Experimental and Clinical Cardiology. ISSN 1205-6626, 2011, vol. 16, no. 3, p. e17-e22, SCOPUS
- ADCA123 ONDREJIČKOVÁ, Oľga - DŽURBA, Andrej - SEDLÁK, Jozef - TOKÁROVÁ, Jarmila - MAČIČKOVÁ, Tatiana - BENEŠ, Luděk. Processes linked to the formation of reactive oxygen species are not necessarily involved in the development of isoproterenol-induced hypertrophy of the heart. The effect of stobadine. In Biomedica biochimica acta, 1991, vol. 50, p. 1251-1254. ISSN 0232-766X.
Citácie:
1. [1.1] ABHILASH, P.A. - NISHA, P. - PRATHAPAN, A. - NAMPOOTHIRI, S.V. - CHERIAN, O.L. - SUNITHA, T.K. - RAGHU, K.G. Cardioprotective effects of aqueous extract of Oxalis corniculata in experimental myocardial infarction. In EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY. ISSN 0940-2993, 2011, vol. 63, no. 6, p. 535-540., WOS
2. [1.1] NAMPOOTHIRI, S.V. - RAJ, S.S.B. - PRATHAPAN, A. - ABHILASH, P.A. - ARUMUGHAN, C. - SUNDARESAN, A. In vitro antioxidant activities of the methanol extract and its different solvent fractions obtained from the fruit pericarp of Terminalia bellerica. In NATURAL PRODUCT RESEARCH. ISSN 1478-6419, 2011, vol. 25, no. 3, p. 277-287., WOS
3. [1.1] PRATHAPAN, A. - RAJAMOCHAN, T. Antioxidant and antithrombotic activity of tender coconut water in experimental myocardial infarction. In JOURNAL OF FOOD BIOCHEMISTRY. ISSN 0145-8884, 2011, vol. 35, no. 5, p. 1501-1507., WOS
- ADCA124 ONDRIAŠ, Karol. Use of electron spin resonance spectroscopy of spin labels for studying drug-induced membrane perturbation. In Journal of Pharmaceutical and Biomedical Analysis, 1989, vol. 7, no. 6, p. 649-675. ISSN 0731-7085.
Citácie:
1. [1.1] TURKER, S. - WASSALL, S. - STILLWELL, W. - SEVERCAN, F. Convulsant agent pentylenetetrazol does not alter the structural and dynamical properties of dipalmitoylphosphatidylcholine model membranes. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2011, vol. 54, no. 2, p. 379-386., WOS
- ADCA125 ONDRIAŠ, Karol - BORGATTA, Louis - KIM, Do Han - EHRLICH, Barbara E. Biphasic effects of doxorubicin on the calcium release channel from sarcoplasmic reticulum of cardiac muscle. In Circulation research, 1990, vol. 67, iss. 5, p. 1167-1174. ISSN 0009-7330.
Citácie:
1. [1.1] HANNA, A.D. - JANCZURA, M. - CHO, E. - DULHUNTY, A.F. - BEARD, N.A. Multiple Actions of the Anthracycline Daunorubicin on Cardiac Ryanodine Receptors. In MOLECULAR PHARMACOLOGY. ISSN 0026-895X, 2011, vol. 80, no. 3, p. 538-549., WOS
- ADCA126 ONDRIAŠ, Karol - MIŠÍK, Vladimír - GERGEL, Dalibor - STAŠKO, Andrej. Lipid

peroxidation of phosphatidylcholine liposomes depressed by the calcium channel blockers nifedipine and verapamil and by the antiarrhythmic-antihypoxic drug stobadine. In *Biochimica et Biophysica Acta : lipids and lipid metabolism*, 1989, vol. 1003, no. 3, p. 238-245. ISSN 0005-2760.

Citácie:

1. [1.1] BAYRAKTAR, N. - DEVAY DUYGULU, S. - TASLIPINAR, M.Y. - UCANKUS, N.L. - OMEROGLU, S. - GUMUSLU, S. - KAVUTCU, M. - CANBOLAT, O. Investigation of the effects of stobadine on the antioxidant enzymes in carbon tetrachloride mediated brain toxicity | [karbon tetraklorür araci{dotless}li{dotless} beyin toksisitesinde antioksidan enzimler üzerine stobadinin etkisinin araştı{dotless}ri{dotless}lması]. In *TURKISH JOURNAL OF BIOCHEMISTRY*. ISSN 1303-829X, 2011, vol. 36, no. 4, p. 283-289, WOS
2. [1.1] DOUILLARD, S. - LHOMMEAU, I. - FOURSAC, A. - AILLET, L. - BIGOT, E. - PATRICE, T. Biophysical parameters influencing secondary oxidants activation in human serum exposed to singlet oxygen. In *JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY*. ISSN 1011-1344, 2011, vol. 102, no. 3, p. 224-231., WOS

ADCA127 ONDRIAŠ, Karol - MIŠÍK, Vladimír - STAŠKO, Andrej - GERGEL, Dalibor - HROMADOVÁ, Melita. Comparison of antioxidant properties of nifedipine and illuminated nifedipine with nitroso spin traps in low density lipoproteins and phosphatidylcholine liposomes. In *Biochimica et Biophysica Acta : lipids and lipid metabolism*, 1994, vol. 1211, no. 1, p. 114-119. ISSN 0005-2760.

Citácie:

1. [1.1] HORINOUCI, Y. - TSUCHIYA, K. - TAOKA, C. - TAJIMA, S. - KIHARA, Y. - MATSUDA, Y. - SHISHIDO, K. - YOSHIDA, M. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. Antioxidant Effects of Photodegradation Product of Nifedipine. In *CHEMICAL & PHARMACEUTICAL BULLETIN*. ISSN 0009-2363, 2011, vol. 59, no. 2, p. 208-214., WOS

ADCA128 ONDRIAŠ, Karol - STAŠKO, Andrej - ČAČÁNYIOVÁ, Soňa - SULOVÁ, Zdena - KRIŽANOVÁ, Oľga - KRISTEK, František - MÁLEKOVÁ, Lubica - KNEZL, Vladimír - BREIER, Albert. H₂S and HS⁻ donor NaHS releases nitric oxide from nitrosothiols, metal nitrosyl complex, brain homogenate and murine L1210 leukaemia cells. In *Pflügers Archiv-European Journal of Physiology*, 2008, vol. 457, no. 2, p. 271-279. (3.842 - IF2007). (2008 - Current Contents). ISSN 0031-6768.

Citácie:

1. [1.1] BEARD, R.S. - BEARDEN, S.E. Vascular complications of cystathionine beta-synthase deficiency: future directions for homocysteine-to-hydrogen sulfide research. In *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*. ISSN 0363-6135, 2011, vol. 300, no. 1, p. H13-H26., WOS
2. [1.1] HORNYAK, I. - PANKOTAI, E. - KISS, L. - LACZA, Z. Current Developments in the Therapeutic Potential of S-Nitrosoglutathione, an Endogenous NO-Donor Molecule. In *CURRENT PHARMACEUTICAL BIOTECHNOLOGY*. ISSN 1389-2010, 2011, vol. 12, no. 9, p. 1368-1374., WOS
3. [1.1] LIU, W.Q. - CHAI, C. - LI, X.Y. - YUAN, W.J. - WANG, W.Z. - LU, Y. The Cardiovascular Effects of Central Hydrogen Sulfide Are Related to K(ATP) Channels Activation. In *PHYSIOLOGICAL RESEARCH*. ISSN 0862-8408, 2011, vol. 60, no. 5, p. 729-738., WOS
4. [1.1] MANCARDI, D. - PLA, A.F. - MOCCIA, F. - TANZI, F. - MUNARON, L. Old and New Gasotransmitters in the Cardiovascular System: Focus on the Role of Nitric Oxide and Hydrogen Sulfide in Endothelial Cells and Cardiomyocytes.

- In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2011, vol. 12, no. 9, p. 1406-1415., WOS*
5. [1.1] SKOVGAARD, N. - GOULIAEV, A. - AALLING, M. - SIMONSEN, U. *The Role of Endogenous H(2)S in Cardiovascular Physiology. In CURRENT PHARMACEUTICAL BIOTECHNOLOGY. ISSN 1389-2010, 2011, vol. 12, no. 9, p. 1385-1393., WOS*
6. [1.1] WHITEMAN, M. - LE TRIONNAIRE, S.L. - CHOPRA, M. - FOX, B. - WHATMORE, J. *Emerging role of hydrogen sulfide in health and disease: Critical appraisal of biomarkers and pharmacological tools. In CLINICAL SCIENCE, ISSN 0143-5221, 2011, vol. 121, no. 11, p. 459-488, WOS*
- ADCA129 ORVISKÝ, Eduard - ŠOLTĚS, Ladislav - AL ASSAF, S. Concentration effect in hyaluronan analysis by size exclusion chromatography. In *Chromatographia*, 1994, vol. 39, no. 5-6, p. 366-368. (1.601 - IF1993). (1994 - Current Contents). ISSN 0009-5893.
- Citácie:
1. [1.1] LUAN, T. - FANG, Y.P. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H.B. *Compared molecular characterization of hyaluronan using multiple-detection techniques. In POLYMER. ISSN 0032-3861, 2011, vol. 52, no. 24, p. 5648-5658., WOS*
- ADCA130 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - TAKÁČ, Peter - KOVÁČSOVÁ, Mária - CUPANÍKOVÁ, Daniela - KOZÁNEK, Milan. Effect of the extract from salivary glands of *Lucilia sericata* on human neutrophils. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 794-797. (1.443 - IF2007). ISSN 0172-780X.
- Citácie:
1. [1.1] MEHLHORN, H. - GESTMANN, F. *Extracts from Fly Maggots and Fly Pupae as a "Wound Healer". In NATURE HELPS... HOW PLANTS AND OTHER ORGANISMS CONTRIBUTE TO SOLVE HEALTH PROBLEMS. ISSN 2192-3671, 2011, vol. 1, p. 325-348. ISBN 978-3-642-19381-1, WOS*
2. [1.2] WHITE, R. *Wound dressings and other topical treatment modalities in bioburden control. JOURNAL OF WOUND CARE. ISSN 0969-0700, 2011, vol. 20, no. 9, p. 431-439, SCOPUS*
- ADCA131 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - LOJEK, Antonín - GALLOVÁ, Lucie - ČÍŽ, Milan - NOSÁL, Radomír - HOLOMÁŇOVÁ, Dagmar. In vitro effect of carvedilol on professional phagocytes. In *Pharmacology : international journal of experimental and clinical pharmacology. - Basel : Karger, 2007, vol. 79, no. 2, p. 86 - 91. (1.240 - IF2006). (2007 - Current Contents). ISSN 0031-7012.*
- Citácie:
1. [1.1] HSIEH, Y.D. - CHI, C.C. - CHOU, C.T. - CHENG, J.S. - KUO, C.C. - LIANG, W.Z. - LIN, K.L. - TSENG, L.L. - JAN, C.R. *Investigation of carvedilol-evoked Ca(2+) movement and death in human oral cancer cells. In JOURNAL OF RECEPTORS AND SIGNAL TRANSDUCTION. ISSN 1079-9893, 2011, vol. 31, no. 3, p. 220-228., WOS*
- ADCA132 PEČIVOVÁ, Jana - MAČIČKOVÁ, Tatiana - ČÍŽ, Milan - NOSÁL, Radomír - LOJEK, Antonín. Effect of stobadine on opsonized zymosan stimulated generation of reactive oxygen species in human blood cells. In *Physiological Research. - Praha : Institute of Physiology, Academy of Sciences of the Czech Republic, 2004, vol. 53, p. 97-102. (0.939 - IF2003). (2004 - Current Contents). ISSN 0862-8408.*
- Citácie:
1. [1.1] CHERESHNEV, V.A. - GEIN, S.V. - MAZUNINA, L.S. - GAVRILOVA, T.V. - CHERESHNEVA, M.V. *Myelopptides Regulate the Microbicidal and Secretory Activities of Innate Immunity Effectors. In DOKLADY BIOCHEMISTRY AND BIOPHYSICS. ISSN 1607-6729, 2011, vol. 436, no. 1, p. 53-55., WOS*

- ADCA133 PEKINER, Bilgehan - ULUSU, Nuray N. - DAS-EVCIMEN, Net - SAHILLI, Meral - AKTAN, Fugen - ŠTEFEK, Milan - ŠTOLC, Svorad - KARASU, Çimen. In vivo treatment with stobadine prevents lipid peroxidation, protein glycation and calcium overload but does not ameliorate Ca²⁺-ATPase activity in heart and liver of streptozotocin-diabetic rats: comparison with vitamin E. In *Biochimica et Biophysica Acta : molecular basis of disease*. - Amsterdam : Elsevier, 2002, vol. 1588, no. 1, p. 71-78. (3.257 - IF2001). (2002 - Current Contents). ISSN 0925-4439.
Citácie:
1. [1.1] MOHAMMAD, R. - DARYOUSH, M. - ALI, R. - YOUSEF, D. - MEHRDAD, N. Attenuation of oxidative stress of hepatic tissue by ethanolic extract of saffron (dried stigmas of *Crocus sativus* L.) in streptozotocin (STZ)-induced diabetic rats . In *AFRICAN JOURNAL OF PHARMACY AND PHARMACOLOGY*. ISSN 1996-0816, 2011, vol. 5, no. 19 , p. 2166-2173, WOS
- ADCA134 PEREČKO, Tomáš - JANČINOVA, Viera - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - HARMATHA, Juraj. Structure-efficiency relationship in derivatives of stilbene. Comparison of resveratrol, pinosylvlin and pterostilbene. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 802-805. (1.443 - IF2007). ISSN 0172-780X.
Citácie:
1. [1.1] PARK, E.J. - MIN, H.Y. - PARK, H.J. - CHUNG, H.J. - AHN, Y.H. - PYEE, J.H. - LEE, S.K. Nuclear Factor E2-Related Factor 2-Mediated Induction of NAD(P)H:Quinone Oxidoreductase 1 by 3,5-Dimethoxy-trans-stilbene. In *JOURNAL OF PHARMACOLOGICAL SCIENCES*. ISSN 1347-8613, 2011, vol. 116, no. 1, p. 89-96., WOS
2. [1.2] BAUEROVA, K. - PONIST, S. - MIHALOVA, D. - DRAFI, F. - KUNCIROVA, V. Utilization of adjuvant arthritis model for evaluation of new approaches in rheumatoid arthritis therapy focused on regulation of immune processes and oxidative stress. In *INTERDISCIPLINARY TOXICOLOGY*. ISSN 1337-6853, 2011, vol. 4, no. 1, p. 33-39, SCOPUS
- ADCA135 PETRIKOVÁ, Margita - JANČINOVA, Viera - NOSÁL, Radomír - MÁJEKOVÁ, Magdaléna - HOLOMÁŇOVÁ, Dagmar. H1- antihistamines and activated blood platelets. In *Inflammation research*. - Basel : Birkhäuser, 2006, vol. 55, suppl.1, p. S51 - S52. (1.210 - IF2005). (2006 - Current Contents). ISSN 1023-3830.
Citácie:
1. [1.2] KOUNIS, N.G. - MAZARAKIS, A. - TSIGKAS, G. - GIANNOPOULOS, S. - GOUDEVENOS, J. Kounis syndrome: A new twist on an old disease. In *FUTURE CARDIOLOGY*. ISSN 1479-6678, 2011, vol. 7, no. 6, p. 805-824, SCOPUS
- ADCA136 PUCOVSKÝ, Vladimír - BOLTON, Thomas B. Localisation, function and composition of primary Ca²⁺ spark discharge region in isolated smooth muscle cells from guinea-pig mesenteric arteries. In *Cell Calcium*, 2006, vol.39, no.2, p.113-129. (4.939 - IF2005). (2006 - Current Contents). ISSN 0143-4160.
Citácie:
1. [1.1] FORMEY, A. - BUSCEMI, L. - BOITTIN, F.X. - BENY, J.L. - MEISTER, J.J. Identification and functional response of interstitial Cajal-like cells from rat mesenteric artery. In *CELL AND TISSUE RESEARCH*. ISSN 0302-766X, 2011, vol. 343, no. 3, p. 509-519., WOS
2. [1.1] KOIDE, M. - NYSTORIAK, M.A. - KRISHNAMOORTHY, G. - O'CONNOR, K.P. - BONEV, A.D. - NELSON, M.T. - WELLMAN, G.C. Reduced Ca(2+) spark activity after subarachnoid hemorrhage disables BK channel control of cerebral artery tone. In *JOURNAL OF CEREBRAL BLOOD FLOW AND METABOLISM*. ISSN 0271-678X, 2011, vol. 31, no. 1, p. 3-16., WOS

3. [1.1] TAKEDA, Y. - NYSTORIAK, M.A. - NIEVES-CINTRON, M. - SANTANA, L.F. - NAVEDO, M.F. Relationship between Ca(2+) sparklets and sarcoplasmic reticulum Ca(2+) load and release in rat cerebral arterial smooth muscle. In AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY. ISSN 0363-6135, 2011, vol. 301, no. 6, p. H2285-H2294., WOS
4. [1.1] WESTCOTT, E.B. - JACKSON, W.F. Heterogeneous function of ryanodine receptors, but not IP(3) receptors, in hamster cremaster muscle feed arteries and arterioles. In AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY. ISSN 0363-6135, 2011, vol. 300, no. 5, p. H1616-H1630., WOS

ADCA137 PUCOVSKÝ, Vladimír - MOSS, Ray F. - BOLTON, Thomas B. Non-contractile cells with thin processes resembling interstitial cells of Cajal found in the wall of guinea-pig mesenteric arteries. In Journal of Physiology, 2003, vol. 552, p. 119 - 133. (4.650 - IF2002). (2003 - Current Contents). ISSN 0022-3751.

Citácie:

1. [1.1] FORMEY, A. - BUSCEMI, L. - BOITTIN, F.X. - BENY, J.L. - MEISTER, J.J. Identification and functional response of interstitial Cajal-like cells from rat mesenteric artery. In CELL AND TISSUE RESEARCH. ISSN 0302-766X, 2011, vol. 343, no. 3, p. 509-519., WOS

ADCA138 RAČKOVÁ, Lucia - ŠNIRC, Vladimír - MÁJEKOVÁ, Magdaléna - MÁJEK, Pavol - ŠTEFEK, Milan. Free radical scavenging and antioxidant activities of substituted hexahydropyridoindoles, quantitative structure-activity relationships. In Journal of medicinal chemistry. - Easton, (Washington) : American Chemical Society, 2006, vol. 49, no. 8, p. 2543 - 2548. (4.926 - IF2005). ISSN 0022-2623.

Citácie:

1. [1.1] ALEKSEYEV, R.S. - KURKIN, A.V. - YUROVSKAYA, M.A. Gamma-carbolines and their hydrogenated derivatives. 3.* Hydrogenated derivatives of gamma-carbolines: chemical and biological properties. In CHEMISTRY OF HETEROCYCLIC COMPOUNDS. ISSN 0009-3122, 2011, vol. 46, no. 10, p. 1169-1198., WOS
2. [1.1] BROSKOVA, Z. - KNEZL, V. Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS
3. [1.1] HADJAZ, F. - BESRET, S. - MARTIN-NIZARD, F. - YOUS, S. - DILLY, S. - LEBEGUE, N. - CHAVATTE, P. - DURIEZ, P. - BERTHELOT, P. - CARATO, P. Antioxydant activity of beta-carboline derivatives in the LDL oxidation model. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2011, vol. 46, no. 6, p. 2575-2585., WOS
4. [1.1] NIKITAKIS, A. - KOUROUNAKIS, A.P. QSAR of substituted morpholines with antioxidant and squalene synthase inhibitory activity. In MEDICINAL CHEMISTRY RESEARCH. ISSN 1054-2523, 2011, vol. 20, no. 5, p. 566-575., WOS
5. [1.1] TSOPELAS, F. - OCHSENKUHN-PETROPOULOU, M. - ZIKOS, N. - SPYROPOULOU, E. - ANDREADOU, I. - TSANTILI-KAKOULIDOU, A. Electrochemical study of some non-steroidal anti-inflammatory drugs: solvent effect and antioxidant activity. In JOURNAL OF SOLID STATE ELECTROCHEMISTRY. ISSN 1432-8488, 2011, vol. 15, no. 6, p. 1099-1108., WOS

ADCA139 RAČKOVÁ, Lucia - FIRÁKOVÁ, Silvia - KOŠŤÁLOVÁ, Daniela - ŠTEFEK, Milan - ŠTURDÍK, Ernest - MÁJEKOVÁ, Magdaléna. Oxidation of liposomal membrane suppressed by flavonoids: quantitative structure-activity relationship. In

Bioorganic & medicinal chemistry. - Oxford : Pergamon-Elsevier, 2005, vol. 13, no. 23, p. 6477-6484. (2.018 - IF2004). (2005 - Current Contents). ISSN 0968-0896.

Citácie:

1. [1.1] LANDI-LIBRANDI, A.P. - DE OLIVEIRA, C.A. - AZZOLINI, A.E.C.S. - KABEYA, L.M. - DEL CIAMPO, J.O. - BENTLEY, M.V.L.B. - LUCISANO-VALIM, Y.M. *In vitro evaluation of the antioxidant activity of liposomal flavonols by the HRP--H2O2--luminol system. In JOURNAL OF MICROENCAPSULATION. ISSN 0265-2048, 2011, vol. 28, no. 4, p. 258-267., WOS*

ADCA140 RAČKOVÁ, Lucia - MÁJEKOVÁ, Magdaléna - KOŠŤÁLOVÁ, Daniela - ŠTEFEK, Milan. Antiradical and antioxidant activities of alkaloids isolated from Mahonia aquifolium. Structural aspects. In Bioorganic & medicinal chemistry. - Oxford : Pergamon-Elsevier, 2004, vol. 12, no.17, p. 4709 - 4715. (2.185 - IF2003). (2004 - Current Contents). ISSN 0968-0896.

Citácie:

1. [1.1] CHENG, C.C. - HSUEH, C.M. - LIANG, K.W. - TING, C.T. - WEN, C.L. - HSU, S.L. *Role of JNK and c-Jun signaling pathway in regulation of human serum paraoxonase 1 gene transcription by berberine in human HepG2 cells. In EUROPEAN JOURNAL OF PHARMACOLOGY. ISSN 0014-2999, 2011, vol. 650, no. 2-3, p. 519-525., WOS*
 2. [1.1] JI, H.F. - SHEN, L. *Berberine: A Potential Multipotent Natural Product to Combat Alzheimer's Disease. In MOLECULES. ISSN 1420-3049, 2011, vol. 16, no. 8, p. 6732-6740., WOS*
 3. [1.1] JIANG, X.F. - YE, X.L. - ZHANG, B.S. - LI, X.G. - LIU, X.Y. *Synthesis and Antimicrobial Activity of 8-Alkyl Coptisine Derivatives. In ASIAN JOURNAL OF CHEMISTRY. ISSN 0970-7077, 2011, vol. 23, no. 9, p. 3849-3852., WOS*
 4. [1.1] KIPLIMO, J.J. - ISLAM, M.S. - KOORBANALLY, N.A. *A Novel Flavonoid and Furoquinoline Alkaloids from Vepris glomerata and their Antioxidant Activity. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2011, vol. 6, no. 12, p. 1847-1850., WOS*
 5. [1.1] MA, T.W. - YE, X.L. - LI, X.G. - ZHANG, B.S. - JIANG, X.F. - CHEN, Z. *Synthesis and Antimicrobial Activity of 8-Alkylpalmatine Derivatives. In LETTERS IN DRUG DESIGN & DISCOVERY. ISSN 1570-1808, 2011, vol. 8, no. 5, p. 464-468., WOS*
 6. [1.1] SIOW, Y.L. - SARNA, L. - KARMIN, O. *Redox regulation in health and disease - Therapeutic potential of berberine. In FOOD RESEARCH INTERNATIONAL. ISSN 0963-9969, 2011, vol. 44, no. 8, SI, p. 2409-2417., WOS*
 7. [1.2] CHATUPHONPRASERT, W. - SANGKAWAT, T. - NEMOTO, N. - JARUKAMJORN, K. *Suppression of beta-naphthoflavone induced CYP1A expression and lipid-peroxidation by berberine. In FITOTERAPIA. ISSN 0367-326X, 2011, vol. 82, no. 6, p. 889-895, SCOPUS*
 8. [1.2] DOMITROVIC, R - JAKOVAC, H.,- BLAGOJEVIC, G. *Hepatoprotective activity of berberine is mediated by inhibition of TNF- α , COX-2, and iNOS expression in CCl4-intoxicated mice. In TOXICOLOGY. ISSN 0300-483X, 2011, vol. 280, no. 1-2, p. 33-43, SCOPUS*
 9. [1.2] JIANG, X.F. - LI, X.G. - TANG, L. - YE, X.L. *Synthesis and in vitro glucose-lowering effect of 8-alkyl-coptisine. In CHINESE TRADITIONAL AND HERBAL DRUGS. ISSN 0253-2670, 2011, vol. 42, no. 4, p. 640-644, SCOPUS*

ADCA141 RAJSKÁ, Petra - KNEZL, Vladimír - KAZIMÍROVÁ, Mária - TAKÁČ, Peter - ROLLER, Ladislav - VIDLIČKA, Ľubomír - ČIAMPOR, Fedor, ml. - LABUDA, Milan - WESTON-DAVIES, W. - NUTTALL, Patricia A. Effects of horsefly (Tabanidae) salivary gland extracts on isolated perfused rat heart. In Medical and

Veterinary Entomology, 2007, vol. 21, p.384-389. (2.033 - IF2006). (2007 - Current Contents). ISSN 0269-283X.

Citácie:

1. [3] MA Dong-Ying, LAI Ren. *Molecular Mechanism of Eco-Parasitic Relationship between Horsefly and host. ACTA PARASITOLOGY ET MEDICA ENTOMOLOGICA SINICA Vol. 17, no. 2 (2010) p. 118-122_ ISSN: 1005-0507 DOI 10.3969/j.issn.1005-0507.2010.02.011, Google Scholar*

ADCA142

RAPTA, Peter - MIŠÍK, Vladimír - STAŠKO, Andrej - VRÁBEL, Imrich. Redox intermediates of flavonoids and caffeic acid esters from propolis: an EPR spectroscopy and cyclic voltammetry study. In *Free Radical Biology and Medicine*, 1995, vol. 18, no. 5, p. 901-908. (1995 - Current Contents). ISSN 0891-5849.

Citácie:

1. [1.1] ANAND, K.V. - ANANDHI, R. - PAKKIYARAJ, M. - GERALDINE, P. *Protective effect of chrysin on carbon tetrachloride (CCl₄)-induced tissue injury in male Wistar rats. In TOXICOLOGY AND INDUSTRIAL HEALTH. ISSN 0748-2337, 2011, vol. 27, no. 10, p. 923-933., WOS*
2. [1.1] BIAGI, M. - MIRALDI, E. - FIGURA, N. - MAGNANO, A.R. - IERARDI, G. - MANCA, D. - CORSINI, M. - BARLOZZINI, B. - MANNARI, C. - STIACCINI, G. - SODANO, S. - GIACHETTI, D. *Gastroprotective and anti Helicobacter pylori activities of propolis. In PLANTA MEDICA. ISSN 0032-0943, 2011, vol. 77, no. 12, p. 1418-1418., WOS*
3. [1.1] GONCALVES, D. - COUTO, R.O. - CONCEICAO, E.C. - REIS, N.S. - GIL, E.S. *Solid stated differential pulse voltammetry (DPV) from spots of thin layer chromatography (TLC): a new method for analysis of antioxidant phytoactives. In QUIMICA NOVA. ISSN 0100-4042, 2011, vol. 34, no. 2, p. 330-334., WOS*
4. [1.1] SALAS-REYES, M. - HERNANDEZ, J. - DOMINGUEZ, Z. - GONZALEZ, F.J. - ASTUDILLO, P.D. - NAVARRO, R.E. - MARTINEZ-BENAVIDEZ, E. - VELAZQUEZ-CONTRERAS, C. - CRUZ-SANCHEZ, S. *Electrochemical Oxidation of Caffeic and Ferulic Acid Derivatives in Aprotic Medium. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2011, vol. 22, no. 4, p. 693-U346., WOS*
5. [1.1] SHI, Y.M. - YAO, S.D. - JIA, Z.J. - LIN, N.Y. - ZHENG, R.L. *Dietary phytophenols act as scavengers of reducing radicals. In FOOD CHEMISTRY. ISSN 0308-8146, 2011, vol. 124, no. 4, p. 1322-1327., WOS*
6. [1.1] VAKULSKAYA, T.I. - LARINA, L.I. - VASHCHENKO, A.V. *Radical anions of flavonoids. In MAGNETIC RESONANCE IN CHEMISTRY. ISSN 0749-1581, 2011, vol. 49, no. 8, p. 508-513., WOS*

ADCA143

RESSOM, Habtom W. - VARGHESE, Rency S. - GOLDMAN, Lenka - AN, Yanming - LOFFREDO, Christopher A. - ABDEL-HAMID, Mohamed - KYSEĽOVÁ, Zuzana - MECHREF, Yehia - NOVOTNÝ, Miloš V. - DRAKE, Steven K. - GOLDMAN, Radoslav. Analysis of MALDI-TOF mass spectrometry data for discovery of peptide and glycan biomarkers of hepatocellular carcinoma. In *Journal of Proteome Research*, 2008, vol. 7, no. 2, p. 603-610. (5.675 - IF2007). (2008 - Current Contents). ISSN 1535-3893.

Citácie:

1. [1.1] LI, C. - LUBMAN, D.M. *Analysis of Serum Protein Glycosylation with Antibody-Lectin Microarray for High-Throughput Biomarker Screening. In PROTEIN MICROARRAY FOR DISEASE ANALYSIS: METHODS AND PROTOCOLS. Book Series: Methods in Molecular Biology. ISSN 1064-3745, 2011, vol. 723, p. 15-28., WOS*
2. [1.1] MASUDA, T. - MIYOSHI, E. *Cancer biomarkers for hepatocellular*

carcinomas: from traditional markers to recent topics. In CLINICAL CHEMISTRY AND LABORATORY MEDICINE. ISSN 1434-6621, 2011, vol. 49, no. 6, p. 959-966., WOS

- ADCA144 SLAMENOVÁ, Darina - CHALUPA, Ivan - ROBICHOVÁ, Soňa - GÁBELOVÁ, Alena - FARKAŠOVÁ, Timea - HRUŠOVSKÁ, Ľubica - BAČOVÁ, Gabriela - ŠEBOVÁ, Lívia - ECKL, Peter - BRESGEN, Nikolaus - ZEITHEIM, Peter - SCHNEIDER, Peter - WSÓLOVÁ, Ladislava - BARANČOKOVÁ, Magdaléna - KAŽIMÍROVÁ, Alena - NAVAROVÁ, Jana - BEZEK, Štefan. Effect of dietary intake of vitamin A or E on the level of DNA damage, chromosomal aberrations, and micronuclei induced in freshly isolated rat hepatocytes by different carcinogens. In Nutrition and Cancer, 2002, vol. 42, no. 1, p.117-124. (2.237 - IF2001). ISSN 0163-5581.

Citácie:

1. [1.1] KIRKLAND, D. - REEVE, L. - GATEHOUSE, D. - VANPARYS, P. *A core in vitro genotoxicity battery comprising the Ames test plus the in vitro micronucleus test is sufficient to detect rodent carcinogens and in vivo genotoxins. In MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS. ISSN 1383-5718, 2011, vol. 721, no. 1, p. 27-73., WOS*

- ADCA145 SORESCU, Dan - WEISS, Daiana - LASSÉGUE, Bernard - CLEMPUS, Roza E. - SZÖCS, Katalin - SORESCU, George P. - VALPPU, Liisa - QUINN, Mark T. - LAMBETH, J.David - VEGA, J.David - TAYLOR, W.Robert - GRIENDLING, Kathy K. Superoxide production and expression of nox family proteins in human atherosclerosis. In Circulation : journal of The American Heart Association. - Baltimore : Lippincott Williams & Wilkins, 2002, vol. 105, p. 1429-1435. (10.517 - IF2001). (2002 - Current Contents). ISSN 0009-7322.

Citácie:

1. [1.1] AGO, T. - KURODA, J. - KAMOUCI, M. - SADOSHIMA, J. - KITAZONO, T. *Pathophysiological Roles of NADPH Oxidase/Nox Family Proteins in the Vascular System - Review and Perspective. In CIRCULATION JOURNAL. ISSN 1346-9843, 2011, vol. 75, no. 8, p. 1791-1800., WOS*

2. [1.1] BLAZQUEZ-MEDELA, A.M. - LOPEZ-NOVOA, J.M. - MARTINEZ-SALGADO, C. *Osteoprotegerin and Diabetes-Associated Pathologies. In CURRENT MOLECULAR MEDICINE. ISSN 1566-5240, 2011, vol. 11, no. 5, p. 401-416., WOS*

3. [1.1] BUETTNER, G.R. *Superoxide Dismutase in Redox Biology: The Roles of Superoxide and Hydrogen Peroxide. In ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY. ISSN 1871-5206, 2011, vol. 11, no. 4, p. 341-346., WOS*

4. [1.1] COSTA, V.M. - CARVALHO, F. - BASTOS, M.L. - CARVALHO, R.A. - CARVALHO, M. - REMIAO, F. *Contribution of Catecholamine Reactive Intermediates and Oxidative Stress to the Pathologic Features of Heart Diseases. In CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2011, vol. 18, no. 15, p. 2272-2314., WOS*

5. [1.1] CSANYI, G. - CIFUENTES-PAGANO, E. - AL GHOULEH, I. - RANAYHOSSAINI, D.J. - EGANA, L. - LOPES, L.R. - JACKSON, H.M. - KELLEY, E.E. - PAGANO, P.J. *Nox2 B-loop peptide, Nox2ds, specifically inhibits the NADPH oxidase Nox2. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 6, p. 1116-1125., WOS*

6. [1.1] FORSTERMANN, U. - LI, H.G. *Therapeutic effect of enhancing endothelial nitric oxide synthase (eNOS) expression and preventing eNOS uncoupling. In BRITISH JOURNAL OF PHARMACOLOGY. ISSN 0007-1188, 2011, vol. 164, no. 2, p. 213-223., WOS*

7. [1.1] GUTOWSKA, I. - BARANOWSKA-BOSIACKA, I. - SIENNICKA, A. -

- RYBICKA, M. - BASKIEWICZ, M. - MACHALINSKI, B. - KOLASA, A. - WISZNIEWSKA, B. - STACHOWSKA, E. - CHLUBEK, D. Fluoride effects on cholesterol influx and expression of the scavenger receptor CD36 in THP1 differentiated monocyte/macrophage cells. In *FLUORIDE*. ISSN 0015-4725, 2011, vol. 44, no. 3, p. 135-142., WOS
8. [1.1] HUANG, X.Q. - SUN, M.X. - LI, D.X. - LIU, J. - GUO, H.B. - DONG, Y.A. - JIANG, L. - PAN, Q. - MAN, Y. - WANG, S. - LI, J.A. Augmented NADPH oxidase activity and p22phox expression in monocytes underlie oxidative stress of patients with type 2 diabetes mellitus. In *DIABETES RESEARCH AND CLINICAL PRACTICE*. ISSN 0168-8227, 2011, vol. 91, no. 3, p. 371-380., WOS
9. [1.1] JODDAR, B. - SHAFFER, R.J.G. - REEN, R.K. - GOOCH, K.J. Arterial pO(2) stimulates intimal hyperplasia and serum stimulates inward eutrophic remodeling in porcine saphenous veins cultured ex vivo. In *BIOMECHANICS AND MODELING IN MECHANOBIOLOGY*. ISSN 1617-7959, 2011, vol. 10, no. 2, p. 161-175., WOS
10. [1.1] KIM, H. - KIM, J.Y. - SONG, H.S. - PARK, K.U. - MUN, K.C. - HA, E. Grape seed proanthocyanidin extract inhibits interleukin-17-induced interleukin-6 production via MAPK pathway in human pulmonary epithelial cells. In *NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY*. ISSN 0028-1298, 2011, vol. 383, no. 6, p. 555-562., WOS
11. [1.1] MAEJIMA, Y. - KURODA, J. - MATSUSHIMA, S. - AGO, T. - SADOSHIMA, J. Regulation of myocardial growth and death by NADPH oxidase. In *JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY*. ISSN 0022-2828, 2011, vol. 50, no. 3, p. 408-416., WOS
12. [1.1] MONTEZANO, A.C. - BURGER, D. - CERAVOLO, G.S. - YUSUF, H. - MONTERO, M. - TOUYZ, R.M. Novel Nox homologues in the vasculature: focusing on Nox4 and Nox5. In *CLINICAL SCIENCE*. ISSN 0143-5221, 2011, vol. 120, no. 3-4, p. 131-141., WOS
13. [1.1] PARATHATH, S. - GRAUER, L. - HUANG, L.S. - SANSON, M. - DISTEL, E. - GOLDBERG, I.J. - FISHER, E.A. Diabetes Adversely Affects Macrophages During Atherosclerotic Plaque Regression in Mice. In *DIABETES*. ISSN 0012-1797, 2011, vol. 60, no. 6, p. 1759-1769., WOS
14. [1.1] PARK, J.G. - OH, G.T. The role of peroxidases in the pathogenesis of atherosclerosis. In *BMB REPORTS*. ISSN 1976-6696, 2011, vol. 44, no. 8, p. 497-505., WOS
15. [1.1] PERROTTA, I. - SCIANGULA, A. - PERROTTA, E. - DONATO, G. - CASSESE, M. Ultrastructural Analysis and Electron Microscopic Localization of Nox4 in Healthy and Atherosclerotic Human Aorta. In *ULTRASTRUCTURAL PATHOLOGY*. ISSN 0191-3123, 2011, vol. 35, no. 1, p. 1-6., WOS
16. [1.1] PIETROWSKI, E. - BENDER, B. - HUPPERT, J. - WHITE, R. - LUHMANN, H.J. - KUHLMANN, C.R.W. Pro-Inflammatory Effects of Interleukin-17A on Vascular Smooth Muscle Cells Involve NAD(P)H-Oxidase Derived Reactive Oxygen Species. In *JOURNAL OF VASCULAR RESEARCH*. ISSN 1018-1172, 2011, vol. 48, no. 1, p. 52-58., WOS
17. [1.1] SAREILA, O. - KELKKA, T. - PIZZOLLA, A. - HULTQVIST, M. - HOLMDAHL, R. NOX2 Complex-Derived ROS as Immune Regulators. In *ANTIOXIDANTS & REDOX SIGNALING*. ISSN 1523-0864, 2011, vol. 15, no. 8, p. 2197-2208., WOS
18. [1.1] SCHULZ, E. - GORI, T. - MUNZEL, T. Oxidative stress and endothelial dysfunction in hypertension. In *HYPERTENSION RESEARCH*. ISSN 0916-9636, 2011, vol. 34, no. 6, p. 665-673., WOS
19. [1.1] SHEEHAN, A.L. - CARRELL, S. - JOHNSON, B. - STANIC, B. - BANFI,

- B. - MILLER, F.J. Role for Nox1 NADPH oxidase in atherosclerosis. In *ATHEROSCLEROSIS*. ISSN 0021-9150, JUN 2011, vol. 216, no. 2, p. 321-326., WOS
20. [1.1] SHIMADA, K. - MURAYAMA, T. - YOKODE, M. - KITA, T. - FUJITA, M. - KISHIMOTO, C. Olmesartan, a novel angiotensin II type I receptor antagonist, reduces severity of atherosclerosis in apolipoprotein E deficient mice associated with reducing superoxide production. In *NUTRITION METABOLISM AND CARDIOVASCULAR DISEASES*. ISSN 0939-4753, 2011, vol. 21, no. 9, p. 672-678., WOS
21. [1.1] SIRKER, A. - ZHANG, M. - SHAH, A.M. NADPH oxidases in cardiovascular disease: insights from in vivo models and clinical studies. In *BASIC RESEARCH IN CARDIOLOGY*. ISSN 0300-8428, 2011, vol. 106, no. 5, p. 735-747., WOS
22. [1.1] TAYE, A. - MORAWIETZ, H. Spironolactone Inhibits NADPH Oxidase-Induced Oxidative Stress and Enhances eNOS in Human Endothelial Cells. In *IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH*. ISSN 1735-0328, 2011, vol. 10, no. 2, p. 329-337., WOS
23. [1.1] UGUSMAN, A. - ZAKARIA, Z. - HUI, C.K. - NORDIN, N.A.M.M. Piper sarmentosum inhibits ICAM-1 and Nox4 gene expression in oxidative stress-induced human umbilical vein endothelial cells. In *BMC COMPLEMENTARY AND ALTERNATIVE MEDICINE*. ISSN 1472-6882, 2011, vol. 11, article number: 31, DOI: 10.1186/1472-6882-11-31, WOS
24. [1.1] WANG, P. - WU, X.Q. - BAO, Y.X. - FANG, J. - ZHOU, S.G. - GAO, J. - PI, R.B. - MOU, Y.G. - LIU, P.Q. Tanshinone IIA prevents cardiac remodeling through attenuating NAD (P)H oxidase-derived reactive oxygen species production in hypertensive rats. In *PHARMAZIE*. ISSN 0031-7144, 2011, vol. 66, no. 7, p. 517-524., WOS
25. [1.1] YAMAOKA-TOJO, M. - TOJO, T. - TAKAHIRA, N. - MASUDA, T. - IZUMI, T. Ezetimibe and Reactive Oxygen Species. In *CURRENT VASCULAR PHARMACOLOGY*. ISSN 1570-1611, 2011, vol. 9, no. 1, p. 109-120., WOS
26. [1.1] ZHANG, L.L. - MINH, V.C.N. - LARDY, B. - JESAITIS, A.J. - GRICHINE, A. - ROUSSET, F. - TALBOT, M. - PACLET, M.H. - QIAN, G.X. - MOREL, F. New insight into the Nox4 subcellular localization in HEK293 cells: First monoclonal antibodies against Nox4. In *BIOCHIMIE*. ISSN 0300-9084, 2011, vol. 93, no. 3, p. 457-468., WOS
27. [1.1] ZINKEVICH, N.S. - GUTTERMAN, D.D. ROS-induced ROS release in vascular biology: redox-redox signaling. In *AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY*. ISSN 0363-6135, 2011, vol. 301, no. 3, p. H647-H653., WOS
28. [1.2] MAULIK, S.K. - KUMAR, S. Oxidative stress and cardiac hypertrophy. In *IIOAB JOURNAL*. ISSN 09763104, 2011, vol. 2, no. 6, p. 107-113, SCOPUS
29. [1.2] SANCHEZ FERRER, C.F. - PEIRO, C. - RODRIGUEZ-MANAS, L. Endothelial dysfunction associated with human vascular aging | [Disfunción endotelial asociada al envejecimiento vascular humano]. In *CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS*. ISSN 0214-9168, 2011, vol. 23, no. 3, p. 135-139, SCOPUS

ADCA146 SORESCU, Dan - SZÖCS, Katalin - GRIENDLING, Kathy K. NAD(P)H oxidases and their relevance to atherosclerosis. In *Trends in Cardiovascular Medicine*. - New York : Elsevier Science, 2001, vol. 11, no. 3/4, p. 124-131. (10.893 - IF2000). ISSN 1050-1738.

Citácie:

1. [1.1] JODDAR, B. - SHAFFER, R.J.G. - REEN, R.K. - GOOCH, K.J. Arterial

- pO(2) stimulates intimal hyperplasia and serum stimulates inward eutrophic remodeling in porcine saphenous veins cultured ex vivo. In BIOMECHANICS AND MODELING IN MECHANOBIOLOGY. ISSN 1617-7959, 2011, vol. 10, no. 2, p. 161-175., WOS*
2. [1.1] SUGAMURA, K. - KEANEY, J.F. *Reactive oxygen species in cardiovascular disease. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 51, no. 5, SI, p. 978-992., WOS*
3. [1.1] YING, Z.K. - KHERADA, N. - KAMPFRATH, T. - MIHAI, G. - SIMONETTI, O. - DESIKAN, R. - SELVENDIRAN, K. - SUN, Q.H. - ZIOUZENKOVA, O. - PARTHASARATHY, S. - RAJAGOPALAN, S. *A Modified Sesamol Derivative Inhibits Progression of Atherosclerosis. In ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. ISSN 1079-5642, 2011, vol. 31, no. 3, p. 536-U145., WOS*
- ADCA147 SOTNÍKOVÁ, Ružena - KOŠTÁLOVÁ, Daniela - VAVERKOVÁ, Štefánia. Effect of bisbenzylisoquinoline alkaloids from Mahonia aquilolium on the isolated rat aorta. In General Pharmacology : the Vascular System, 1994, vol. 25, no. 7, p.1405-1410. ISSN 0306-3623.
- Citácie:
1. [1.2] BOCHEVA, G.- BOYADJIEVA, N. *Epigenetic regulation of fetal bone development and placental transfer of nutrients: Progress for osteoporosis. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 4, p. 167-172, SCOPUS*
- ADCA148 STAŠKO, Andrej - BREZOVÁ, Vlasta - BISKUPIČ, Stanislav - ONDRIAŠ, Karol - MIŠÍK, Vladimír. Reactive radical intermediates formed from illuminated nifedipine. In Free Radical Biology and Medicine, 1994, vol. 17, no. 6, p. 545-556. ISSN 0891-5849.
- Citácie:
1. [1.1] HORINOUCI, Y. - TSUCHIYA, K. - TAOKA, C. - TAJIMA, S. - KIHARA, Y. - MATSUDA, Y. - SHISHIDO, K. - YOSHIDA, M. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. *Antioxidant Effects of Photodegradation Product of Nifedipine. In CHEMICAL & PHARMACEUTICAL BULLETIN. ISSN 0009-2363, 2011, vol. 59, no. 2, p. 208-214., WOS*
2. [1.1] ISHIZAWA, K. *Drug Discovery for Improvement of Chronic Kidney Disease and Cardiovascular Disease. In YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN. ISSN 0031-6903, 2011, vol. 131, no. 9, p. 1347-1352., WOS*
3. [1.2] FUKUHARA, Y. - TSUCHIYA, K. - HORINOUCI, Y. - TAJIMA, S. - KIHARA, Y. - HAMANO, S. - KAWAZOE, K. - IKEDA, Y. - ISHIZAWA, K. - TOMITA, S. - TAMAKI, T. *Protective effect of photodegradation product of nifedipine against tumor necrosis factor alpha-induced oxidative stress in human glomerular endothelial cells. In JOURNAL OF MEDICAL INVESTIGATION. ISSN 1343-1420, 2011, vol. 58, no. 1-2, p. 118-126, SCOPUS*
- ADCA149 STERN, Robert - KOGAN, Grigorij - JEDRZEJAS, Mark J. - ŠOLTÉS, Ladislav. The many ways to cleave hyaluronan. In Biotechnology Advances, 2007, vol. 25, p. 537-557. (4.943 - IF2006). (2007 - Current Contents). ISSN 0734-9750.
- Citácie:
1. [1.1] AL-QADI, S. - GRENHA, A. - REMUNAN-LOPEZ, C. *Microspheres loaded with polysaccharide nanoparticles for pulmonary delivery: Preparation, structure and surface analysis. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 86, no. 1, p. 25-34., WOS*
2. [1.1] BHILOCHA, S. - AMIN, R. - PANDYA, M. - YUAN, H. - TANK, M. -

- LOBELLO, J. - SHYTUHINA, A. - WANG, W.L. - WISNIEWSKI, H.G. - DE LA MOTTE, C. - COWMAN, M.K. Agarose and polyacrylamide gel electrophoresis methods for molecular mass analysis of 5-to 500-kDa hyaluronan. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2011, vol. 417, no. 1, p. 41-49., WOS
3. [1.1] CHENG, Y.H. - YANG, S.H. - LIN, F.H. Thermosensitive chitosan-gelatin-glycerol phosphate hydrogel as a controlled release system of ferulic acid for nucleus pulposus regeneration. In *BIOMATERIALS*. ISSN 0142-9612, 2011, vol. 32, no. 29, p. 6953-6961., WOS
4. [1.1] CHENG, Y.H. - YANG, S.H. - YANG, K.C. - CHEN, M.P. - LIN, F.H. The effects of ferulic acid on nucleus pulposus cells under hydrogen peroxide-induced oxidative stress. In *PROCESS BIOCHEMISTRY*. ISSN 1359-5113, 2011, vol. 46, no. 8, p. 1670-1677., WOS
5. [1.1] COWMAN, M.K. - CHEN, C.C. - PANDYA, M. - YUAN, H. - RAMKISHUN, D. - LOBELLO, J. - BHILOCHA, S. - RUSSELL-PULERI, S. - SKENDAJ, E. - MIJOVIC, J. - JING, W. Improved agarose gel electrophoresis method and molecular mass calculation for high molecular mass hyaluronan. In *ANALYTICAL BIOCHEMISTRY*. ISSN 0003-2697, 2011, vol. 417, no. 1, p. 50-56., WOS
6. [1.1] FAJARDO, A.R. - LOPES, L.C. - VALENTE, A.J.M. - RUBIRA, A.F. - MUNIZ, E.C. Effect of stoichiometry and pH on the structure and properties of Chitosan/Chondroitin sulfate complexes. In *COLLOID AND POLYMER SCIENCE*. ISSN 0303-402X, 2011, vol. 289, no. 15-16, p. 1739-1748., WOS
7. [1.1] HASOVA, M. - CRHAK, T. - SAFRANKOVA, B. - DVORAKOVA, J. - MUTHNY, T. - VELEBNY, V. - KUBALA, L. Hyaluronan minimizes effects of UV irradiation on human keratinocytes. In *ARCHIVES OF DERMATOLOGICAL RESEARCH*. ISSN 0340-3696, 2011, vol. 303, no. 4, p. 277-284., WOS
8. [1.1] KE, C.L. - SUN, L.P. - QIAO, D.L. - WANG, D. - ZENG, X.X. Antioxidant activity of low molecular weight hyaluronic acid. In *FOOD AND CHEMICAL TOXICOLOGY*. ISSN 0278-6915, 2011, vol. 49, no. 10, p. 2670-2675., WOS
9. [1.1] LENNON, F.E. - SINGLETON, P.A. Role of hyaluronan and hyaluronan-binding proteins in lung pathobiology. In *AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY*. ISSN 1040-0605, 2011, vol. 301, no. 2, p. L137-L147., WOS
10. [1.1] MARTENS, A.A. - BESSELING, N.A.M. - RUEB, S. - SUDHOLTER, E.J.R. - SPAINK, H.P. - DE SMET, L.C.P.M. Random Scission of Polymers: Numerical Simulations, and Experiments on Hyaluronan Hydrolysis. In *MACROMOLECULES*. ISSN 0024-9297, 2011, vol. 44, no. 8, p. 2559-2567., WOS
11. [1.1] MARTIN, S.F. - ESSER, P.R. - WEBER, F.C. - JAKOB, T. - FREUDENBERG, M.A. - SCHMIDT, M. - GOEBELER, M. Mechanisms of chemical-induced innate immunity in allergic contact dermatitis. In *ALLERGY*. ISSN 0105-4538, 2011, vol. 66, no. 9, p. 1152-1163., WOS
12. [1.1] MAUCK, R.L. - BURDICK, J.A. Engineering Cartilage Tissue. In Eds. Pallua, N; Suschek, C.V. *TISSUE ENGINEERING: FROM LAB TO CLINIC*. Berlin, Springer 2011. p. 493-520. ISBN 978-3-642-02823-6, WOS
13. [1.1] SCHANTE, C. - ZUBER, G. - HERLIN, C. - VANDAMME, T.F. Synthesis of N-alanyl-hyaluronamide with high degree of substitution for enhanced resistance to hyaluronidase-mediated digestion. In *CARBOHYDRATE POLYMERS*. ISSN 0144-8617, 2011, vol. 86, no. 2, p. 747-752., WOS
14. [1.1] SCHANTE, C.E. - ZUBER, G. - HERLIN, C. - VANDAMME, T.F. Chemical modifications of hyaluronic acid for the synthesis of derivatives for a

broad range of biomedical applications. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 85, no. 3, p. 469-489., WOS

15. [1.1] WIGHT, T.N. - TOOLE, B.P. - HASCALL, V.C. *Hyaluronan and the Aggregating Proteoglycans. In Mecham, R.P. eds. EXTRACELLULAR MATRIX: AN OVERVIEW. Berlin, Springer 2011, p. 147-195. ISBN: 978-3-642-16554-2, WOS*

16. [1.2] KARBOWNIK, M.S. - NOWAK, J.Z. *Hyaluronan in cancer - Pathophysiology and pharmacotherapy perspectives | [Hialuronian w chorobach nowotworowych - Patofizjologia i perspektywy farmakoterapii]. In NOWOTWORY. ISSN 0029-540X, 2011, vol. 61, no. 4, p. 380-395, SCOPUS*

17. [1.2] TURASHEV, A.D. - TISCHENKO, E.G. - MAKSIMENKO, A.V. *Electrostatic interactions determine glycation of hyaluronidase derivatives with N-acethylhexosamines? In BIOMEDITSINSKAYA KHIMIYA. ISSN 0042-8809, 2011, vol. 57, no. 6, p. 624-634, SCOPUS*

ADCA150 SUZUKI, Hiroshi - UEDA, Tetsuji - JURÁNEK, Ivo - YAMAMOTO, Shozo - KATOH, Takahiro - NODE, Manabu - SUZUKI, Toshiyuki. *Hinokitiol, a selective inhibitor of the platelet-type isozyme of arachidonate 12-lipoxygenase. In Biochemical and biophysical research communications. - San Diego : Academic Press, 2000, vol. 275, no. 3, p.885-889. (3.161 - IF1999). (2000 - Current Contents). ISSN 0006-291X.*

Citácie:

1. [1.1] CHO, Y.S. - SONG, J.S. - HUH, J.Y. - KIM, C.H. - GONG, Y.D. - CHEON, H.G. *Discovery of (2-Fluoro-Benzyl)-(2-Methyl-2-Phenethyl-2H-Chromen-6-yl)-Amine (KRH-102140) as an Orally Active 5-Lipoxygenase Inhibitor with Activity in Murine Inflammation Models. In PHARMACOLOGY. ISSN 0031-7012, 2011, vol. 87, no. 1-2, p. 49-55., WOS*

2. [1.1] HSIEH, K.H. - LEE, J.J. - LEE, L.W. - SHEU, J.R. - HWANG, S.T. - CHOU, D.S. *Evaluation of Antioxidants Using an Arachidonic Acid-Stimulated Platelet Electron Spin Resonance System. In JOURNAL OF FOOD AND DRUG ANALYSIS. ISSN 1021-9498, 2011, vol. 19, no. 3, p. 281-288., WOS*

3. [1.1] KENYON, V. - RAI, G. - JADHAV, A. - SCHULTZ, L. - ARMSTRONG, M. - JAMESON, J.B. - PERRY, S. - JOSHI, N. - BOUGIE, J.M. - LEISTER, W. - TAYLOR-FISHWICK, D.A. - NADLER, J.L. - HOLINSTAT, M. - SIMEONOV, A. - MALONEY, D.J. - HOLMAN, T.R. *Discovery of Potent and Selective Inhibitors of Human Platelet-Type 12-Lipoxygenase. In JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0022-2623, 2011, vol. 54, no. 15, p. 5485-5497., WOS*

4. [1.1] PERGOLA, C. - JAZZAR, B. - ROSSI, A. - BUEHRING, U. - LUDERER, S. - DEHM, F. - NORTHOFF, H. - SAUTEBIN, L. - WERZ, O. *Cinnamyl-3,4-Dihydroxy-alpha-Cyanocinnamate Is a Potent Inhibitor of 5-Lipoxygenase. In JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS. ISSN 0022-3565, 2011, vol. 338, no. 1, p. 205-213., WOS*

5. [1.2] YEUNG, J. - HOLINSTAT, M. *12-lipoxygenase: A Potential Target for Novel Anti-Platelet Therapeutics. In CARDIOVASCULAR AND HEMATOLOGICAL AGENTS IN MEDICINAL CHEMISTRY. ISSN 1871-5257, 2011, vol. 9, no. 3, p. 154-164, SCOPUS*

ADCA151 SZÖCS, Katalin - LASSÉGUE, Bernard - WENZEL, Philip - WENDT, Maria - DAIBER, Andreas - OELZE, Mathias - MEINERTZ, Thomas - MÜNZEL, Thomas - BALDUS, Stephan. *Increased superoxide production in nitrate tolerance is associated with NAD(P)H oxidase and aldehyde dehydrogenase 2 downregulation. In Journal of molecular and cellular cardiology, 2007, vol. 42, no. 6, p. 1111 - 1118. (4.859 - IF2006). (2007 - Current Contents). ISSN 0022-2828.*

Citácie:

- ADCA152
1. [1.1] CHOI, H. - TOSTES, R.C. - WEBB, R.C. Mitochondrial aldehyde dehydrogenase prevents ROS-induced vascular contraction in angiotensin-II hypertensive mice. In *JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION*. ISSN 1933-1711, 2011, vol. 5, no. 3, p. 154-160., WOS
 2. [1.1] D'SOUZA, Y. - DOWLATSHAHI, S. - BENNETT, B.M. Changes in aldehyde dehydrogenase 2 expression in rat blood vessels during glyceryl trinitrate tolerance development and reversal. In *BRITISH JOURNAL OF PHARMACOLOGY*. ISSN 0007-1188, 2011, vol. 164, no. 2B, p. 632-643., WOS
 - SZÖCS, Katalin - LASSÉGUE, Bernard - SORESCU, Dan - HILENSKI, Lula L. - VALPPU, Liisa - COUSE, Tracey L. - WILCOX, Josiah N. - QUINN, Mark T. - LAMBETH, J.David - GRIENDLING, Kathy K. Upregulation of nox-based NAD(P)H oxidases in restenosis after carotid injury. In *Arteriosclerosis, thrombosis, and vascular biology*. - Baltimore : Lippincott Williams and Wilkins, 2002, vol. 22, no. 1, p. 21-27. (5.816 - IF2001). (2002 - Current Contents). ISSN 1079-5642.
- Citácie:
1. [1.1] CHU, X. - FILALI, M. - STANIC, B. - TAKAPOO, M. - SHEEHAN, A. - BHALLA, R. - LAMB, F.S. - MILLER, F.J. A Critical Role for Chloride Channel-3 (CIC-3) in Smooth Muscle Cell Activation and Neointima Formation. In *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*. ISSN 1079-5642, 2011, vol. 31, no. 2, p. 345-U257., WOS
 2. [1.1] CRAIGE, S.M. - CHEN, K. - PEI, Y.M. - LI, C.Y. - HUANG, X.Y. - CHEN, C. - SHIBATA, R. - SATO, K. - WALSH, K. - KEANEY, J.F. NADPH Oxidase 4 Promotes Endothelial Angiogenesis Through Endothelial Nitric Oxide Synthase Activation. In *CIRCULATION*. ISSN 0009-7322, 2011, vol. 124, no. 6, p. 731-U193., WOS
 3. [1.1] CSANYI, G. - CIFUENTES-PAGANO, E. - AL GHOULEH, I. - RANAYHOSSAINI, D.J. - EGANA, L. - LOPES, L.R. - JACKSON, H.M. - KELLEY, E.E. - PAGANO, P.J. Nox2 B-loop peptide, Nox2ds, specifically inhibits the NADPH oxidase Nox2. In *FREE RADICAL BIOLOGY AND MEDICINE*. ISSN 0891-5849, 2011, vol. 51, no. 6, p. 1116-1125., WOS
 4. [1.1] HASEGAWA, T. - OKADA, K. - OKITA, Y. - PINSKY, D.J. Antioxidant properties of pioglitazone limit nicotinamide adenine dinucleotide phosphate hydrogen oxidase and augment superoxide dismutase activity in cardiac allotransplantation. In *JOURNAL OF HEART AND LUNG TRANSPLANTATION*. ISSN 1053-2498, 2011, vol. 30, no. 10, p. 1186-1196., WOS
 5. [1.1] INABA, S. - IWAI, M. - FURUNO, M. - KANNO, H. - SENBA, I. - OKAYAMA, H. - MOGI, M. - HIGAKI, J. - HORIUCHI, M. Role of angiotensin-converting enzyme 2 in cardiac hypertrophy induced by nitric oxide synthase inhibition. In *JOURNAL OF HYPERTENSION*. ISSN 0263-6352, 2011, vol. 29, no. 11, p. 2236-2245., WOS
 6. [1.1] INABA, S. - IWAI, M. - FURUNO, M. - KANNO, H. - SENBA, I. - OKAYAMA, H. - MOGI, M. - HIGAKI, J. - HORIUCHI, M. Temporary Treatment With AT(1) Receptor Blocker, Valsartan, From Early Stage of Hypertension Prevented Vascular Remodeling. In *AMERICAN JOURNAL OF HYPERTENSION*. ISSN 0895-7061, 2011, vol. 24, no. 5, p. 550-556., WOS
 7. [1.1] JOBI, K. - RAUCH, B.H. - DANGWAL, S. - FREIDEL, K. - DOLLER, A. - EBERHARDT, W. - FISCHER, J.W. - SCHROR, K. - ROSENKRANZ, A.C. Redox regulation of human protease-activated receptor-2 by activated factor X. In *FREE RADICAL BIOLOGY AND MEDICINE*. ISSN 0891-5849, 2011, vol. 51, no. 9, p. 1758-1764., WOS
 8. [1.1] KARKI, R. - SAHI, N. - JEON, E.R. - PARK, Y.S. - KIM, D.W.

- Chungtaejeon, a Korean Fermented Tea, Scavenges Oxidation and Inhibits Cytokine Induced Proliferation and Migration of Human Aortic Smooth Muscle Cells. In PLANT FOODS FOR HUMAN NUTRITION. ISSN 0921-9668, 2011, vol. 66, no. 1, p. 27-33., WOS*
9. [1.1] MONTEZANO, A.C. - BURGER, D. - CERAVOLO, G.S. - YUSUF, H. - MONTERO, M. - TOUYZ, R.M. Novel Nox homologues in the vasculature: focusing on Nox4 and Nox5. In CLINICAL SCIENCE. ISSN 0143-5221, 2011, vol. 120, no. 3-4, p. 131-141., WOS
10. [1.1] OKUMURA, M. - IWAI, M. - NAKAOKA, H. - SONE, H. - KANNO, H. - SENBA, I. - ITO, M. - HORIUCHI, M. Possible involvement of AT(2) receptor dysfunction in age-related gender difference in vascular remodeling. In JOURNAL OF THE AMERICAN SOCIETY OF HYPERTENSION. ISSN 1933-1711, 2011, vol. 5, no. 2, p. 76-84., WOS
11. [1.1] SHEEHAN, A.L. - CARRELL, S. - JOHNSON, B. - STANIC, B. - BANFI, B. - MILLER, F.J. Role for Nox1 NADPH oxidase in atherosclerosis. In ATHEROSCLEROSIS. ISSN 0021-9150, 2011, vol. 216, no. 2, p. 321-326., WOS
12. [1.1] TATEBE, J. - MORITA, T. Enhancement of TNF-alpha Expression and Inhibition of Glucose Uptake by Nicotine in the Presence of a Free Fatty Acid in C2C12 Skeletal Myocytes. In HORMONE AND METABOLIC RESEARCH. ISSN 0018-5043, 2011, vol. 43, no. 1, p. 11-16., WOS
13. [1.1] WANG, Y.J. - CHIEN, Y.C. - WU, C.H. - LIU, D.M. Magnolol-Loaded Core-Shell Hydrogel Nanoparticles: Drug Release, Intracellular Uptake, and Controlled Cytotoxicity for the Inhibition of Migration of Vascular Smooth Muscle Cells. In MOLECULAR PHARMACEUTICS. ISSN 1543-8384, 2011, vol. 8, no. 6, p. 2339-2349., WOS
14. [1.1] ZIMMERMAN, M.C. - TAKAPOO, M. - JAGADEESHA, D.K. - STANIC, B. - BANFI, B. - BHALLA, R.C. - MILLER, F.J. Activation of NADPH Oxidase 1 Increases Intracellular Calcium and Migration of Smooth Muscle Cells. In HYPERTENSION. ISSN 0194-911X, 2011, vol. 58, no. 3, p. 446-U236., WOS
- ADCA153 ŠČASNÁR, Vladimír - LIER, Johan E. van. Biological activities of phthalocyanines. 15. Radiolabeling of the differently sulfonated GA-67 phthalocyanines for photodynamic therapy and tumor imaging. In Nuclear Medicine and Biology, 1993, vol. 20, no. 3, p. 257-262. ISSN 0969-8051.
Citácie:
1. [1.1] YUKSEL, F. - DURMUS, M. - AHSEN, V. Photophysical, photochemical and liquid-crystalline properties of novel gallium(III) phthalocyanines. In DYES AND PIGMENTS. ISSN 0143-7208, 2011, vol. 90, no. 2, p. 191-200., WOS
- ADCA154 ŠIMKOVIC, Ivan - HRICOVÍNI, Miloš - ŠOLTÉS, Ladislav - MENDICHI, Raniero - COSENTINO, C. Preparation of water-soluble/insoluble derivatives of hyaluronic acid by cross-linking with epichlorohydrin in aqueous NaOH/NH4OH solution. In Carbohydrate Polymers. - Oxford : Elsevier, 2000, vol. 41, p. 9-14. (0.987 - IF1999). (2000 - Current Contents). ISSN 0144-8617.
Citácie:
1. [1.2] VORVOLAKOS, K. - ISAYEVA, I.S. - DO LUU, H.M. - PATWARDHAN, D.V. - POLLACK, S.K. Ionically cross-linked hyaluronic acid: Wetting, lubrication, and viscoelasticity of a modified adhesion barrier gel. In MEDICAL DEVICES: EVIDENCE AND RESEARCH. ISSN 1179-1470, 2011, vol. 4, no. 1, p. 1-10, SCOPUS
- ADCA155 ŠOLTÉS, Ladislav - SÉBILLE, Bernard - FUGEDI, A. High-performance liquid chromatographic determination of bilirubin distribution on serum proteins. In Clinica chimica acta, 1991, vol. 201, no. 1-2, p. 35-44. ISSN 0009-8981.
Citácie:

1. [1.1] BIAN, W.W. - ZHANG, N. - JIANG, C.Q. *Spectrofluorimetric determination of bilirubin in serum samples. In LUMINESCENCE. ISSN 1522-7235, 2011, vol. 26, no. 1, p. 54-58., WOS*
- ADCA156 ŠOLTÉS, Ladislav - SÉBILLE, Bernard. Reversible binding interactions between the tryptophan enantiomers and albumins of different animal species as determined by novel high performance liquid chromatographic methods: an attempt to localize the D- and L-tryptophan binding sites on the human serum albumin polypeptide chain by using protein fragments. In *Chirality*, 1997, vol. 9, no. 4, p.373-379. ISSN 0899-0042.
- Citácie:
1. [2.1] MONKOS, K. *Temperature behaviour of viscous flow with proteins. In GENERAL PHYSIOLOGY AND BIOPHYSICS. ISSN 0231-5882, 2011, vol. 30, no. 2, p. 121-129., WOS*
- ADCA157 ŠOLTÉS, Ladislav. Aminoglycoside antibiotics - two decades of their HPLC bioanalysis. In *Biomedical Chromatography*, 1999, vol. 13, iss.1, p. 3-10. (1.013 - IF1998). (1999 - Current Contents).
- Citácie:
1. [1.1] CHANG, X.J. - YU, Z.P. *Determination of Etimicin in Rat Plasma using 9-Fluorenylmethyl Chloroformate Precolumn Derivatization by HPLC with Fluorescence Detection. In JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY. ISSN 0103-5053, 2011, vol. 22, no. 7, p. 1246-1252., WOS*
 2. [1.1] GHOLIPOUR, V. - SHOKRI, M. - WAQIF-HUSAIN, S. *Separation and Determination of Streptomycin by Ion Exchange-High-Performance Thin-Layer Chromatography. In JPC-JOURNAL OF PLANAR CHROMATOGRAPHY-MODERN TLC. ISSN 0933-4173, 2011, vol. 24, no. 6, p. 520-523., WOS*
 3. [1.1] HE, S. - CHEN, Q.Y. - SUN, Y. - ZHU, Y.C. - LUO, L.X. - LI, J.Q. - CAO, Y.S. *Determination of tobramycin in soil by HPLC with ultrasonic-assisted extraction and solid-phase extraction. In JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. ISSN 1570-0232, 2011, vol. 879, no. 13-14, p. 901-907., WOS*
- ADCA158 ŠOLTÉS, Ladislav - VALACHOVÁ, Katarína - MENDICHI, Raniero - KOGAN, Grigorij - ARNHOLD, Juergen - GEMEINER, Peter. Solution properties of high-molar-mass hyaluronans: the biopolymer degradation by ascorbate. In *Carbohydrate Research*, 2007, vol. 342, p.1071-1077. (1.703 - IF2006). (2007 - Current Contents). ISSN 0008-6215.
- Citácie:
1. [1.1] LUAN, T. - FANG, Y.P. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H.B. *Compared molecular characterization of hyaluronan using multiple-detection techniques. In POLYMER. ISSN 0032-3861, 2011, vol. 52, no. 24, p. 5648-5658., WOS*
- ADCA159 ŠOLTÉS, Ladislav - KOGAN, Grigorij - STANKOVSKÁ, Monika - MENDICHI, Raniero - RYCHLÝ, Jozef - SCHILLER, Jürgen - GEMEINER, Peter. Degradation of high-molar-mass hyaluronan and characterization of fragments. In *Biomacromolecules*, 2007, vol. 8, p. 2697-2705. (3.664 - IF2006). (2007 - Current Contents). ISSN 1525-7797.
- Citácie:
1. [1.1] ECHIBURU-CHAU, C. - ROY, D. - CALAF, G.M. *Metastatic suppressor CD44 is related with oxidative stress in breast cancer cell lines. In INTERNATIONAL JOURNAL OF ONCOLOGY. ISSN 1019-6439, 2011, vol. 39, no. 6, p. 1481-1489., WOS*
 2. [1.1] LUAN, T. - FANG, Y.P. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H.B. *Compared molecular characterization of hyaluronan using multiple-*

detection techniques. In POLYMER. ISSN 0032-3861, 2011, vol. 52, no. 24, p. 5648-5658., WOS

- ADCA160 ŠOLTĚS, Ladislav - STANKOVSKÁ, Monika - BREZOVÁ, Vlasta - SCHILLER, Jürgen - ARNHOLD, Juergen - KOGAN, Grigorij - GEMEINER, Peter. Hyaluronan degradation by copper(II) chloride and ascorbate: rotational viscometric, EPR spin-trapping, and MALDI-TOF mass spectrometric investigations. In Carbohydrate Research, 2006, vol. 341, p. 2826-2834. (1.669 - IF2005). (2006 - Current Contents). ISSN 0008-6215.

Citácie:

1. [1.1] HARVEY, D.J. Analysis of carbohydrates and glycoconjugates by matrix-assisted laser desorption/ionization mass spectrometry: an update for the period 2005-2006. In MASS SPECTROMETRY REVIEWS. ISSN 0277-7037, 2011, vol. 30, no. 1, p. 1-100., WOS
2. [1.1] KE, C.L. - SUN, L.P. - QIAO, D.L. - WANG, D. - ZENG, X.X. Antioxidant activity of low molecular weight hyaluronic acid. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2011, vol. 49, no. 10, p. 2670-2675., WOS

- ADCA161 ŠOLTĚS, Ladislav - MENDICHI, Raniero - KOGAN, Grigorij - SCHILLER, Jürgen - STANKOVSKÁ, Monika - AMHOLD, Jürgen. Degradative action of reactive oxygen species on hyaluronan. In Biomacromolecules [seriál], 2006, vol.7, no. 3, p.659-668. (3.618 - IF2005). (2006 - Current Contents). ISSN 1525-7797.

Citácie:

1. [1.1] BRUJAN, E.A. Non-Newtonian Fluids. In CAVITATION IN NON-NEWTONIAN FLUIDS: WITH BIOMEDICAL AND BIOENGINEERING APPLICATIONS. Berlin, Springer 2011, p. 1-47. DOI: 10.1007/978-3-642-15343-3_1, ISBN: 978-3-642-15342-6, WOS
2. [1.1] CATURLA, N. - FUNES, L. - PEREZ-FONS, L. - MICOL, V. A Randomized, Double-Blinded, Placebo-Controlled Study of the Effect of a Combination of Lemon Verbena Extract and Fish Oil Omega-3 Fatty Acid on Joint Management. In JOURNAL OF ALTERNATIVE AND COMPLEMENTARY MEDICINE. ISSN 1075-5535, 2011, vol. 17, no. 11, p. 1051-1063., WOS
3. [1.1] JIANG, D.H. - LIANG, J.R. - NOBLE, P.W. Hyaluronan as an Immune Regulator in Human Diseases. In PHYSIOLOGICAL REVIEWS. ISSN 0031-9333, 2011, vol. 91, no. 1, p. 221-264., WOS
4. [1.1] LENNON, F.E. - SINGLETON, P.A. Role of hyaluronan and hyaluronan-binding proteins in lung pathobiology. In AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. ISSN 1040-0605, 2011, vol. 301, no. 2, p. L137-L147., WOS
5. [1.1] MARTIN, S.F. - ESSER, P.R. - WEBER, F.C. - JAKOB, T. - FREUDENBERG, M.A. - SCHMIDT, M. - GOEBELER, M. Mechanisms of chemical-induced innate immunity in allergic contact dermatitis. In ALLERGY. ISSN 0105-4538, 2011, vol. 66, no. 9, p. 1152-1163., WOS
6. [1.1] MURANO, E. - PERIN, D. - KHAN, R. - BERGAMIN, M. Hyaluronan: From Biomimetic to Industrial Business Strategy. In NATURAL PRODUCT COMMUNICATIONS. ISSN 1934-578X, 2011, vol. 6, no. 4, p. 555-572., WOS
7. [1.1] RADHAKUMARY, C. - NANDKUMAR, A.M. - NAIR, P.D. Hyaluronic acid-g-poly(HEMA) copolymer with potential implications for lung tissue engineering. In CARBOHYDRATE POLYMERS. ISSN 0144-8617, 2011, vol. 85, no. 2, p. 439-445., WOS
8. [1.1] VEISEH, M. - TURLEY, E.A. Hyaluronan metabolism in remodeling extracellular matrix: probes for imaging and therapy of breast cancer. In INTEGRATIVE BIOLOGY. ISSN 1757-9694, 2011, vol. 3, no. 4, p. 304-315., WOS

9. [1.1] ZISKOVEN, C. - JAGER, M. - KIRCHER, J. - PATZER, T. - BLOCH, W. - BRIXIUS, K. - KRAUSPE, R. *Physiology and pathophysiology of nitrosative and oxidative stress in osteoarthritic joint destruction. In CANADIAN JOURNAL OF PHYSIOLOGY AND PHARMACOLOGY. ISSN 0008-4212, 2011, vol. 89, no. 7, p. 455-466., WOS*
- ADCA162 ŠOLTĚS, Ladislav - STANKOVSKÁ, Monika - KOGAN, Grigorij - GEMEINER, Peter - STERN, Robert. Contribution of oxidative-reductive reactions to high-molecular-weight hyaluronan catabolism. In *Chemistry & biodiversity*, 2005, vol. 2, no. 9, p.1242-1245. (2005 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [1.1] LIANG, J.R. - JIANG, D.H. - JUNG, Y.S. - XIE, T. - INGRAM, J. - CHURCH, T. - DEGAN, S. - LEONARD, M. - KRAFT, M. - NOBLE, P.W. *Role of hyaluronan and hyaluronan-binding proteins in human asthma. In JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY. ISSN 0091-6749, AUG 2011, vol. 128, no. 2, p. 403-U220., WOS*
- ADCA163 ŠOLTĚS, Ladislav. The Hummel-Dreyer method: impact in pharmacology. In *Biomedical Chromatography*. - Chichester : John Wiley & Sons, 2004, vol. 18, no. 4, p. 259-271. (1.269 - IF2003). (2004 - Current Contents).
- Citácie:
1. [1.1] DE, D. - CHAKRABORTY, P.D. - BHATTACHARYYA, D. *Regulation of Trypsin Activity by Peptide Fraction of an Aqueous Extract of Human Placenta Used as Wound Healer. In JOURNAL OF CELLULAR PHYSIOLOGY. ISSN 0021-9541, 2011, vol. 226, no. 8, p. 2033-2040., WOS*
 2. [1.1] HAGE, D.S. - ANGUIZOLA, J. - BARNABY, O. - JACKSON, A. - YOO, M.J. - PAPASTAVROS, E. - PFAUNMILLER, E. - SOBANSKY, M. - TONG, Z.H. *Characterization of Drug Interactions with Serum Proteins by Using High-Performance Affinity Chromatography. In CURRENT DRUG METABOLISM. ISSN 1389-2002, 2011, vol. 12, no. 4, p. 313-328., WOS*
 3. [1.1] HAGE, D.S. - ANGUIZOLA, J.A. - JACKSON, A.J. - MATSUDA, R. - PAPASTAVROS, E. - PFAUNMILLER, E. - TONG, Z.H. - VARGAS-BADILLA, J. - YOO, M.J. - ZHENG, X.W. *Chromatographic analysis of drug interactions in the serum proteome. In ANALYTICAL METHODS. ISSN 1759-9660, 2011, vol. 3, no. 7, p. 1449-1460., WOS*
 4. [1.1] KOVARIK, J.M. - NEUHAUS, P. - CILLO, U. - WEBER, M. - STITAH, S. - GATLIK, E. - MEISER, K. - SLADE, A. *Sotrastaurin single-dose pharmacokinetics in de novo liver transplant recipients. In TRANSPLANT INTERNATIONAL. ISSN 0934-0874, 2011, vol. 24, no. 3, p. 276-283., WOS*
 5. [1.1] WU, B. - ONG, M.S. - GROESSL, M. - ADHIREKSAN, Z. - HARTINGER, C.G. - DYSON, P.J. - DAVEY, C.A. *A Ruthenium Antimetastasis Agent Forms Specific Histone Protein Adducts in the Nucleosome Core. In CHEMISTRY-A EUROPEAN JOURNAL. ISSN 0947-6539, 2011, vol. 17, no. 13, p. 3562-3566., WOS*
- ADCA164 ŠOLTĚS, Ladislav - MENDICHI, Raniero. Molecular characterization of two host-guest associating hyaluronan derivatives. In *Biomedical Chromatography*, 2003, vol. 17, no. 6, p. 376-384. (1.388 - IF2002). (2003 - Current Contents).
- Citácie:
1. [1.1] AUZELY-VELTY, R. *Self-assembling polysaccharide systems based on cyclodextrin complexation: Synthesis, properties and potential applications in the biomaterials field. In COMPTES RENDUS CHIMIE. ISSN 1631-0748, FEB-MAR 2011, vol. 14, no. 2-3, p. 167-177., WOS*
 2. [1.1] LUAN, T. - FANG, Y.P. - AL-ASSAF, S. - PHILLIPS, G.O. - ZHANG, H.B. *Compared molecular characterization of hyaluronan using multiple-*

- detection techniques. In POLYMER. ISSN 0032-3861, NOV 10 2011, vol. 52, no. 24, p. 5648-5658., WOS*
3. [1.2] IANNITTI, T. - LODI, D. - PALMIERI, B. *Intra-articular injections for the treatment of osteoarthritis: Focus on the clinical use of hyaluronic acid. In DRUGS IN R AND D. ISSN 1174-5886, 2011, vol. 11, no. 1, p. 13-27, SCOPUS*
4. [1.2] JAGADEESWARA REDDY, K. - KARUNAKARAN, K.T. - SAMBASIVA RAO, K.R.S. *Enhanced hyaluronic acid production by a mutant strain, 3523-7 of Streptococcus zooepidemicus. In CURRENT TRENDS IN BIOTECHNOLOGY AND PHARMACY. ISSN 0973-8916, 2011, vol. 5, no. 4, p. 1473-1479, SCOPUS*
- ADCA165 ŠOLTÉS, Ladislav - MACH, Mojmir. Estimation of drug-protein binding parameters on assuming the validity of thermodynamic equilibrium. In Journal of Chromatography B : biomedical applications, 2002, vol. 768, p. 113-119. ISSN 0378-4347.
- Citácie:
1. [1.1] CHAMANI, J. - VAHEDIAN-MOVAHED, H. - SABERI, M.R. *Lomefloxacin promotes the interaction between human serum albumin and transferrin: A mechanistic insight into the emergence of antibiotic's side effects. In JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS. ISSN 0731-7085, 2011, vol. 55, no. 1, p. 114-124, WOS*
2. [1.1] VAHEDIAN-MOVAHED, H. - SABERI, M.R. - CHAMANI, J. *Comparison of Binding Interactions of Lomefloxacin to Serum Albumin and Serum Transferrin by Resonance Light Scattering and Fluorescence Quenching Methods. In JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS. ISSN 0739-1102, 2011, vol. 28, no. 4, p. 483-502., WOS*
- ADCA166 ŠTEFEK, Milan - BENEŠ, Luděk - JERGELOVÁ, M. - ŠČASNÁR, Vladimír - TURI NAGY, L. - KOČIŠ, P. Biotransformation of stobadine, a gamma-carboline antiarrhythmic and cardioprotective agent, in rat liver microsomes. In Xenobiotica, 1987, vol. 17, no. 9, p. 1067-1073. ISSN 0049-8254.
- Citácie:
1. [1.1] ALEKSEYEV, R.S. - KURKIN, A.V. - YUROVSKAYA, M.A. *Gamma-carbolines and their hydrogenated derivatives 3. * Hydrogenated derivatives of gamma-carbolines : chemical and biological poperties. In CHEMISTRY OF HETEROCYCLIC COMPOUNDS. ISSN 0009-3122, 2011, vol. 46, no. 10, p. 1169-1198., WOS*
- ADCA167 ŠTEFEK, Milan - BENEŠ, Luděk - ZELNÍK, Vladimír. N-oxygenation of stobadine, a gamma-carboline antiarrhythmic and cardioprotective agent: the role of flavin-containing monooxygenase. In Xenobiotica, 1989, vol. 19, no. 2, p. 143-150. ISSN 0049-8254.
- Citácie:
1. [1.1] ALEKSEYEV, R.S. - KURKIN, A.V. - YUROVSKAYA, M.A. *gamma-CARBOLINES AND THEIR HYDROGENATED DERIVATIVES 3. * HYDROGENATED DERIVATIVES OF gamma-CARBOLINES: CHEMICAL AND BIOLOGICAL POPERTIES (REVIEW). In CHEMISTRY OF HETEROCYCLIC COMPOUNDS. ISSN 0009-3122, 2011, vol. 46, no. 10, p. 1169-1198., WOS*
- ADCA168 ŠTEFEK, Milan - ŠNIRC, Vladimír - DJOUBISSIE, Paul-Omer - MÁJEKOVÁ, Magdaléna - DEMOPOULOS, Vassilis J. - RAČKOVÁ, Lucia - BEŽÁKOVÁ, Želmíra - KARASU, Çimen - CARBONE, Vincenzo - EL-KABBANI, Ossama. Carboxymethylated pyridoindole antioxidants as aldose reductase inhibitors: synthesis, activity, partitioning, and molecular modeling. In Bioorganic & medicinal chemistry, 2008, vol.16, no. 9, p. 4908-4920. (2.662 - IF2007). (2008 - Current Contents). ISSN 0968-0896.
- Citácie:

1. [1.1] ALEKSEYEV, R.S. - KURKIN, A.V. - YUROVSKAYA, M.A. *Gamma-carbolines and their hydrogenated derivatives 3. * Hydrogenated derivatives of Gamma-carbolines: chemical and biological poperties (review). In CHEMISTRY OF HETEROCYCLIC COMPOUNDS. ISSN 0009-3122, 2011, vol. 46, no. 10, p. 1169-1198., WOS*

ADCA169 ŠTEFEK, Milan - TRIBULOVÁ, Narcis - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena. The pyridoindole antioxidant stobadine attenuates histochemical changes in kidney of streptozotocin-induced diabetic rats. In *Acta Histochemica : Zeitschrift für histologische Topochemie. - Jena : Urban & Fischer, 2002, vol. 104, no. 4, p. 413-417. (0.865 - IF2001). ISSN 0065-1281.*

Citácie:

1. [1.1] LI, Y. - ZHANG, W. - LI, P.W. - HUANG, K.X. *Effect of streptozocin-induced diabetes mellitus on expression of methionine sulfoxide reductases and accumulation of their substrates in mouse lenses. In EXPERIMENTAL EYE RESEARCH. ISSN 0014-4835, 2011, vol. 92, no. 5, p. 401-407., WOS*
2. [1.1] XIA, J.F. - WANG, Z.H. - LIANG, Q.L. - WANG, Y.M. - LI, P. - LUO, G.A. *Correlations of six related pyrimidine metabolites and diabetic retinopathy in Chinese type 2 diabetic patients. In CLINICA CHIMICA ACTA. ISSN 0009-8981, 2011, vol. 412, no. 11-12, p. 940-945., WOS*
3. [1.1] YUSUKSAWAD, M. - CHAIYABUTR, N. *The beneficial effect of long-term supplementation of vitamin C on renal mitochondrial disturbances in streptozotocin-induced diabetic rats. In ASIAN BIOMEDICINE. ISSN 1905-7415, 2011, vol. 5, no. 2, p. 277-282., WOS*
4. [1.2] EL GHOUL, J. - GHANEM-BOUGHANMI, N. - BEN-ATTIA, M. *Biochemical study on the protective effect of ethanolic extract of Zygophyllum album on streptozotocin-induced oxidative stress and toxicity in mice. In BIOMEDICINE AND PREVENTIVE NUTRITION. ISSN 2210-5239, 2011, vol. 1, no. 2, p. 79-83, SCOPUS*

ADCA170 ŠTEFEK, Milan - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena - KRIŽANOVÁ, Ľudmila. p-Dimethylaminobenzaldehyde-reactive substances in tail tendon collagen of streptozotocin-diabetic rats: temporal relation to biomechanical properties and advanced glycation endproduct (AGE)-related fluorescence. Milan Štefek, Andrej Gajdošík, Alena Gajdošíková, Ľudmila Križanová. In *Biochimica et Biophysica Acta : molecular basis of disease. - Amsterdam : Elsevier, 2000, vol. 1502, p. 398-404. (2.590 - IF1999). (2000 - Current Contents). ISSN 0925-4439.*

Citácie:

1. [1.1] ALDINI, G. - ORIOLI, M. - ROSSONI, G. - SAVI, F. - BRAIDOTTI, P. - VISTOLI, G. - YEUM, K.J. - NEGRISOLI, G. - CARINI, M. *The carbonyl scavenger carnosine ameliorates dyslipidaemia and renal function in Zucker obese rats. In JOURNAL OF CELLULAR AND MOLECULAR MEDICINE. ISSN 1582-1838, 2011, vol. 15, no. 6, p. 1339-1354., WOS*
2. [1.2] ADEGOKE, O.A. *Analytical, biochemical and synthetic applications of para-dimethylaminobenzaldehyde. In INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES REVIEW AND RESEARCH. ISSN 0976-044X, 2011, vol. 11, no. 2, p. 17-29, SCOPUS*

ADCA171 ŠTEFEK, Milan - SOTNÍKOVÁ, Ružena - OKRUHLICOVÁ, Ľudmila - VOLKOVÁ, K. - KUCHARSKÁ, Jarmila - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena - MIHALOVÁ, Danica - HÓZOVÁ, Ružena - TRIBULOVÁ, Narcis - GVOZDJÁKOVÁ, Anna. Effect of dietary supplementation with the pyridoindole antioxidant stobadine on antioxidant state and ultrastructure of diabetic rat myocardium. Milan Štefek, Ružena Sotníková, Ľudmila Okruhlicová, K. Volkovová, Jarmila Kucharská, Andrej Gajdošík, Alena Gajdošíková, Danica

Mihalová, Ružena Hózová, Narcisa Tribulová, Anna Gvozdjaková. In *Acta Diabetologica*. - New York : Springer, 2000, vol. 37, no. 3, p. 111-117. (1.100 - IF1999). (2000 - Current Contents). ISSN 0940-5429.

Citácie:

1. [1.1] XU, T.J. - LIU, Y. - ZENG, J. - ZHANG, D. - YUAN, B.X. *Effect of insulin in combination with selenium on blood glucose and PI3K-mediated GLUT4 expression in skeletal muscle of streptozotocin-induced diabetic rats*. In *EUROPEAN REVIEW FOR MEDICAL AND PHARMACOLOGICAL SCIENCES*. ISSN 1128-3602, 2011, vol. 15, no. 4, p. 387-393., WOS

2. [3] SEEMA KUMARI, G.S. arun kumar - B. CHANDRASEKHAR raju, M. RAMARAO. *Biological activity of methanolic of aqueous extract of glycosmis Mauritiana and streblus asper*. In *INTERNATIONAL RESEARCH JOURNAL OF PHARMACY*. ISSN 2230-8407, 2011, vol. 2, no. 12 (2011), p. 267-269

ADCA172 ŠTOLC, Svorad - ŠNIRC, Vladimír - MÁJEKOVÁ, Magdaléna - GÁSPÁROVÁ, Zdenka - GAJDOŠÍKOVÁ, Alena - ŠTVRTINA, Svetoslav. *Development of the new group of indole-derived neuroprotective drugs affecting oxidative stress*. In *Cellular and Molecular Neurobiology*. - New York : Springer, 2006, vol. 26, no. 7/8, p. 1495 - 1504. (2.022 - IF2005). (2006 - Current Contents). ISSN 0272-4340.

Citácie:

1. [1.1] BROSKOVA, Z. - KNEZL, V. *Protective effect of novel pyridoinole derivatives on ischemia/reperfusion injury of the isolated rat heart*. In *PHARMACOLOGICAL REPORTS*. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS

2. [1.1] TOGUEM, S.M.T. - LANGER, P. *2,5,6-Trisubstituted N-Methylindoles from Site-Selective Suzuki-Miyaura Cross-Coupling, Twofold Heck and 6 pi-Electrocyclization-Dehydrogenation Reactions of 2,3,5-Tribromo-N-methylpyrrole*. In *SYNLETT*. ISSN 0936-5214, 2011, no. 4, p. 513-516., WOS

3. [2.2] SOTNIKOVA, R. - NEDELCEVOVA, J. - NAVAROVA, J. - NOSALOVA, V. - DRABIKOVA, K. - SZOCS, K. - KRENEK, P. - KYSELOVA, Z. - BEZEK, S. - KNEZL, V. - DRIMAL, J. - BROSKOVA, Z. - KRISTOVA, V. - OKRUHLICOVA, L. - BERNATOVA, I. - BAUER, V. *a Protection of the vascular endothelium in experimental situations*. In *INTERDISCIPLINARY TOXICOLOGY*. ISSN 1337-6853, 2011, vol. 4, no.1, p. 20-26, SCOPUS

ADCA173 ŠTOLC, Svorad - NEMČEK, Vendelín - SZÖCSOVÁ, Helena. *Local anesthetics: lipophilicity, charge, diffusion and site action in isolated neuron*. In *European Journal of Pharmacology*, 1989, vol. 164, no. 2, p. 249-256. ISSN 0014-2999.

Citácie:

1. [1.1] GREGAN, F. - GREGAN, J. - SKORSEPA, M. *Synthesis and Characterization of Two Homologous Series of Diastereomeric 2-Alkoxyphenylcarbammates*. In *CHEMICAL & PHARMACEUTICAL BULLETIN*. ISSN 0009-2363, 2011, vol. 59, no. 8, p. 978-983., WOS

ADCA174 ŠTOLC, Svorad - VALKO, Ladislav - VALKO, Marián - LOMBARDI, Vincenzo. *A technique for the fast sampling of biological tissues for electron paramagnetic resonance spectroscopy*. In *Free Radical Biology and Medicine*, 1996, vol. 20, no.1, p. 89-91. (4.089 - IF1995). (1996 - Current Contents). ISSN 0891-5849.

Citácie:

1. [1.1] CHANDRASEKARA, A. - SHAHIDI, F. *Antiproliferative potential and DNA scission inhibitory activity of phenolics from whole millet grains*. In *JOURNAL OF FUNCTIONAL FOODS*. ISSN 1756-4646, 2011, vol. 3, no. 3, p. 159-170., WOS

2. [1.1] ZDYBEL, M. - CHODUREK, E. - PILAWA, B. *EPR Studies of DOPA-Melanin Complexes with Fe(III)*. In *APPLIED MAGNETIC RESONANCE*. ISSN

- 0937-9347, 2011, vol. 40, no. 1, p. 113-123., WOS
- ADCA175 ŠTOLC, Svorad. Indole derivatives as neuroprotectants. In Life Sciences, 1999, vol. 65, nos. 18/19, p. 1943-1950. (1.937 - IF1998). (1999 - Current Contents). ISSN 0024-3205.
- Citácie:
1. [1.1] PATYAR, S. - PRAKASH, A. - MODI, M. - MEDHI, B. Role of vinpocetine in cerebrovascular diseases. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 3, p. 618-628., WOS
 2. [1.1] PAVLOV, N. - GILLES, P. - DIDIERJEAN, C. - WENGER, E. - NAYDENOVA, E. - MARTINEZ, J. - CALMES, M. Asymmetric Synthesis of beta(2)-Tryptophan Analogues via Friedel-Crafts Alkylation of Indoles with a Chiral Nitroacrylate. In JOURNAL OF ORGANIC CHEMISTRY. ISSN 0022-3263, 2011, vol. 76, no. 15, p. 6116-6124., WOS
 3. [1.2] MOHAMED, E.K. - SHEBAB, W.S. Synthesis of some new condensed pyrimidine derivatives. In JOURNAL OF THE KOREAN CHEMICAL SOCIETY. ISSN 1017 2548, 2011, vol. 55, no. 6, p. 988-993, SCOPUS
- ADCA176 TORTOLANI, Anthony J. - POWELL, Saul R. - MIŠÍK, Vladimír - WEGLIČKI, William B. - POGO, Gustave J. - KRAMER, Jay H. Detection of alkoxyl and carbon-centered free radicals in coronary sinus blood from patients undergoing elective cardioplegia. In Free Radical Biology and Medicine, 1993, vol. 14, no. 4, p. 421-426. ISSN 0891-5849.
- Citácie:
1. [1.1] BAILEY, D.M. - EVANS, K.A. - MCENENY, J. - YOUNG, I.S. - HULLIN, D.A. - JAMES, P.E. - OGOH, S. - AINSLIE, P.N. - LUCCHESI, C. - ROCKENBAUER, A. - CULCASI, M. - PIETRI, S. Exercise-induced oxidative-nitrosative stress is associated with impaired dynamic cerebral autoregulation and blood-brain barrier leakage. In EXPERIMENTAL PHYSIOLOGY. ISSN 0958-0670, 2011, vol. 96, no. 11, p. 1196-1207., WOS
 2. [1.1] GONENC, A. - HACISEVKI, A. - GRIFFITHS, H.R. - TORUN, M. - BAKKALOGLU, B. - SIMSEK, B. Free radical reaction products and antioxidant capacity in beating heart coronary artery surgery compared to conventional bypass. In BIOCHEMISTRY-MOSCOW. ISSN 0006-2979, 2011, vol. 76, no. 6, p. 677-685., WOS
- ADCA177 TRIBULOVÁ, Narcis - KNEZL, Vladimír - OKRUHLICOVÁ, Ľudmila - SLEZÁK, Ján. Myocardial gap junction: targets for novel approaches in the prevention of life-threatening cardiac arrhythmias. In Physiological Research, 2008, vol. 57, suppl. 2, p. S1-S13. (1.505 - IF2007). (2008 - Current Contents). ISSN 0862-8408.
- Citácie:
1. [1.1] BOSCO, D. - HAEFLIGER, J.A. - MEDA, P. Connexins: key mediators of endocrine function. In PHYSIOLOGICAL REVIEWS. ISSN 0031-9333, 2011, vol. 91, no. 4, p. 1393-1445., WOS
 2. [1.1] SHEN, H. - CHOE, W. Spontaneous high-frequency action potential. In SCIENCE CHINA-LIFE SCIENCES. ISSN 1674-7305, 2011, vol. 54, no. 4, p. 311-335., WOS
 3. [1.1] YANG, Y. - CAO, M.H. - WANG, Q. - YUAN, D.D. - LI, L. - TAO, L. The Effects of 2-Aminoethoxydiphenyl Borate and Diphenylboronic Anhydride on Gap Junctions Composed of Connexin43 in TM(4) Sertoli Cells. In BIOLOGICAL & PHARMACEUTICAL BULLETIN. ISSN 0918-6158, 2011, vol. 34, no. 9, p. 1390-1397., WOS
 4. [1.2] LIU, Y. - HUANG, H. - XIA, W. - TANG, Y. - YUAN, M. - TANG, Q. - HUANG, C. Inhibition of NADPH oxidase up-regulates connexin 43 and ameliorates electrical remodeling in rabbits with heart failure. In BIOMEDICINE

AND AGING PATHOLOGY. ISSN 2210-5220, 2011, vol. 1, no. 1, p. 33-38, SCOPUS

- ADCA178 TRNOVEC, Tomáš - ŠIKL, Dobroslav - ZEMÁNEK, Marián - FABEROVÁ, Viera - BEZEK, Štefan - GAJDOŠÍK, Andrej - KOPRDA, Vasil'. The distribution in mice of intravenously administered labelled *Candida albicans*. In *Sabouraudia : journal of the International Society for Human & Animal Mycology*, 1978, vol. 16, no. 4, p. 299-306. ISSN 0036-2174.

Citácie:

1. [1.1] NOUMI, E. - SNOUSSI, M. - EL GHOUL, S. - ROUABHIA, M. - BAKHROUF, A. Effect of glucose supplementation on *Candida albicans* virulence in immunosuppressed Swiss albino mice (*Mus musculus*). In *AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH. ISSN 1996-0808, 2011, vol. 5, no. 17, p. 2479-2487., WOS*

- ADCA179 TRNOVEC, Tomáš - KÁLLAY, Zoltán - BEZEK, Štefan. Effects of ionizing radiation on the blood brain barrier permeability to pharmacologically active substances. In *International Journal of Radiation Oncology Biology Physics*, 1990, vol.19, no. 6, p.1581-1587. ISSN 0360-3016.

Citácie:

1. [1.1] LI, Y. - LUPO, J.M. - POLLEY, M.Y. - CRANE, J.C. - BIAN, W. - CHA, S. - CHANG, S. - NELSON, S.J. Serial analysis of imaging parameters in patients with newly diagnosed glioblastoma multiforme. In *NEURO-ONCOLOGY. ISSN 1522-8517, 2011, vol. 13, no. 5, p. 546-557., WOS*
2. [1.1] PECAUT, M.J. - GRIDLEY, D.S. Impact of Head-Only Iron Ion Radiation on the Peripheral LPS Response. In *IN VIVO. ISSN 0258-851X, 2011, vol. 25, no. 6, p. 903-916., WOS*
3. [1.1] VASKO, M.R. - GUO, C.h. - THOMPSON, E.L. - KELLEY, M.R. The repair function of the multifunctional DNA repair/redox protein APE1 is neuroprotective after ionizing radiation. In *DNA REPAIR. ISSN 1568-7864, 2011, vol. 10, no. 9, p. 942-952., WOS*

- ADCA180 UJHÁZY, Eduard - DUBOVICKÝ, Michal - PONECHALOVÁ, Veronika - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - ŠNIRC, Vladimír - MACH, Mojmír. Prenatal developmental toxicity study of the pyridoindole antioxidant SMeIEC2 in rats. In *Neuroendocrinology Letters*, 2008, vol. 29, no. 5, p. 639-643. (1.443 - IF2007). ISSN 0172-780X.

Citácie:

1. [1.1] POHANKA, M. - SNOPKOVA, S. - HAVLICKOVA, K. - BOSTIK, P. - SINKOROVA, Z. - FUSEK, J. - KUCA, K. - PIKULA, J. Macrophage-Assisted Inflammation and Pharmacological Regulation of the Cholinergic Anti-Inflammatory Pathway. In *CURRENT MEDICINAL CHEMISTRY. ISSN 0929-8673, 2011, vol. 18, no. 4, p. 539-551., WOS*

- ADCA181 UJHÁZY, Eduard - ONDEROVÁ, Edita - HORÁKOVÁ, Magdaléna - BENCOVÁ, Elena - ĎURIŠOVÁ, Mária - NOSÁL, Radomír - BALONOVÁ, Tatiana - ZELJENKOVÁ, Dagmar. Teratological study of the hypolipidaemic drugs etofylline clofibrate (VULM) and fenofibrate in Swiss mice. In *Pharmacology & toxicology : an international journal*, 1989, vol. 64, nu. 3, p. 286-290. ISSN 0901-9928.

Citácie:

1. [1.2] BOUCHE, C. - BISMUTH, E. - CALIMAN, C. - LEPERCQ, J. - LUBIN, V. - ROUGE, D. - TIMSIT, J. - VAMBERGUE, A. Management of pregnancy in type 1 diabetic women: Expert-consensus from Société Francophone du Diabete (SFD) 2010 | [Prise en charge de la grossesse au cours du diabete de type 1: Référentiel de la Société Francophone du Diabete (SFD) 2010]. In *MEDECINE DES MALADIES METABOLOQUES. ISSN 1957-2557, 2011, vol. 5, no. 1, p. 91-*

103, SCOPUS

- ADCA182 ULUSU, Nuray N. - SAHILLI, Meral - AVCI, Aslihan - CANBOLAT, Orhan - OZANSOY, Gülgün - ARI, Nuray - BALI, Musa - ŠTEFEK, Milan - ŠTOLC, Svorad - GAJDOŠÍK, Andrej - KARASU, Çimen. Pentose phosphate pathway, glutathione-dependent enzymes and antioxidant defense during oxidative stress in diabetic rodent brain and peripheral organs: effects of stobadine and vitamin E. In *Neurochemical research*. - New York : Kluwer Academic /Plenum Publ., 2003, vol. 28, p. 815 - 823. (1.672 - IF2002).
- Citácie:
1. [1.1] *KARAAGAC, N. - SALMAN, F. - DOGRU-ABBASOGLU, S. - UYSAL, M. Changes in Prooxidant-Antioxidant Balance in Tissues of Rats Following Long-term Hyperglycemic Status. In ENDOCRINE RESEARCH. ISSN 0743-5800, 2011, vol. 36, no. 3, p. 124-133., WOS*
 2. [1.1] *RADDATZ, E. - THOMAS, A.C. - SARRE, A. - BENATHAN, M. Differential contribution of mitochondria, NADPH oxidases, and glycolysis to region-specific oxidant stress in the anoxic-reoxygenated embryonic heart. In AMERICAN JOURNAL OF PHYSIOLOGY-HEART AND CIRCULATORY PHYSIOLOGY. ISSN 0363-6135, 2011, vol. 300, no. 3, p. H820-H835., WOS*
 3. [1.1] *SHANMUGAM, K.R. - MALLIKARJUNA, K. - NISHANTH, K. - KUO, C.H. - REDDY, K.S. Protective effect of dietary ginger on antioxidant enzymes and oxidative damage in experimental diabetic rat tissues. In FOOD CHEMISTRY. ISSN 0308-8146, 2011, vol. 124, no. 4, p. 1436-1442., WOS*
 4. [1.1] *YI, S.S. - HWANG, I.K. - KIM, D.W. - SHIN, J.H. - NAM, S.M. - CHOI, J.H. - LEE, C.H. - WON, M.H. - SEONG, J.K. - YOON, Y.S. The Chronological Characteristics of SOD1 Activity and Inflammatory Response in the Hippocampi of STZ-Induced Type 1 Diabetic Rats. In NEUROCHEMICAL RESEARCH. ISSN 0364-3190, 2011, vol. 36, no. 1, p. 117-128., WOS*
 5. [1.2] *ANAND, P.,- RAJAKUMAR, D. - JERAUD, M. - JOHN WILLIAM FELIX, A. - BALASUBRAMANIAN, T. Effects of taurine on glutathione peroxidase, glutathione reductase and reduced glutathione levels in rats. In PAKISTAN JOURNAL OF BIOLOGICAL SCIENCES. ISSN 1028-8880, 2011, vol. 14, no. 3, p. 219-225, SCOPUS*
- ADCA183 VALACHOVÁ, Katarína - HORVÁTHOVÁ, Viera. Starch degradation by glucoamylase Glm from *Saccharomycopsis fibuligera* IFO 0111 in the presence and absence of a commercial pullulanase. In *Chemistry & biodiversity*, 2007, vol. 4, p. 874-880. (1.616 - IF2006). (2007 - Current Contents). ISSN 1612-1872.
- Citácie:
1. [1.1] *LI, X.R. - MA, E.B. - YAN, L.Z. - MENG, H. - DU, X.W. - ZHANG, S.W. - QUAN, Z.X. Bacterial and fungal diversity in the traditional Chinese liquor fermentation process. In INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. ISSN 0168-1605, 2011, vol. 146, no. 1, p. 31-37., WOS*
- ADCA184 VLKOLINSKÝ, Roman - SIGGINS, George R. - CAMPBELL, Iain L. - KRUCKER, Thomas. Acute exposure to CXC chemokine ligand 10, but not its chronic astroglial production, alters synaptic in mouse hippocampal slices. In *Journal of Neuroimmunology*, 2004, vol.150, no.1-2, p. 37-47. (3.054 - IF2003). (2004 - Current Contents). ISSN 0165-5728.
- Citácie:
1. [1.1] *FIL, D. - BORYSIEWICZ, E. - KONAT, G.W. A broad upregulation of cerebral chemokine genes by peripherally-generated inflammatory mediators. In METABOLIC BRAIN DISEASE. ISSN 0885-7490, 2011, vol. 26, no. 1, p. 49-59., WOS*
 2. [1.1] *SERRANO, G.E. - LELUTIU, N. - ROJAS, A. - COCHI, S. - SHAW, R. -*

- MAKINSON, C.D. - WANG, D. - FITZGERALD, G.A. - DINGLELINE, R. Ablation of Cyclooxygenase-2 in Forebrain Neurons is Neuroprotective and Dampens Brain Inflammation after Status Epilepticus. In JOURNAL OF NEUROSCIENCE. ISSN 0270-6474, 2011, vol. 31, no. 42, p. 14850-14860., WOS*
3. [1.1] *VAN WEERING, H.R.J. - BODDEKE, H.W.G.M. - VINET, J. - BROUWER, N. - DE HAAS, A.H. - VAN ROOIJEN, N. - THOMSEN, A.R. - BIBER, K.P.H. CXCL10/CXCR3 Signaling in Glia Cells Differentially Affects NMDA-Induced Cell Death in CA and DG Neurons of the Mouse Hippocampus. In HIPPOCAMPUS. ISSN 1050-9631, 2011, vol. 21, no. 2, p. 220-232., WOS*
- ADCA185 VLKOLINSKÝ, Roman - CAIRNS, Nigel - FOUNTOULAKIS, Michael - LUBEC, Gert. Decreased brain levels of 2',3'-cyclic nucleotide-3'-phosphodiesterase in Down syndrome and Alzheimer's disease. In *Neurobiology of aging*. - New York : Elsevier Science, 2001, vol. 22, p. 547-553. (4.159 - IF2000). (2001 - Current Contents). ISSN 0197-4580.
- Citácie:
1. [1.1] *BARTZOKIS, G. Alzheimer's disease as homeostatic responses to age-related myelin breakdown. In NEUROBIOLOGY OF AGING. ISSN 0197-4580, 2011, vol. 32, no. 8, p. 1341-1371., WOS*
2. [1.1] *ENGLISH, J.A. - PENNINGTON, K. - DUNN, M.J. - COTTER, D.R. The Neuroproteomics of Schizophrenia. In BIOLOGICAL PSYCHIATRY. ISSN 0006-3223, 2011, vol. 69, no. 2, p. 163-172., WOS*
3. [1.1] *YOKOYAMA, H. - UCHIDA, H. - KUROIWA, H. - KASAHARA, J. - ARAKI, T. Role of glial cells in neurotoxin-induced animal models of Parkinson's disease. In NEUROLOGICAL SCIENCES. ISSN 1590-1874, 2011, vol. 32, no. 1, p. 1-7., WOS*
- ADCA186 VOSS, Peter - HORÁKOVÁ, Ľubica - JAKSTADT, Manuela - KIEKEBUSCH, Daniela - GRUNE, Tilman. Ferritin oxidation and proteasomal degradation: protection by antioxidants. In *Free Radical Research : official journal of the Society for Free Radical Research -European Region*, 2006, vol. 40, no. 6, p. 673-683. (2.323 - IF2005). (2006 - Current Contents). ISSN 1071-5762.
- Citácie:
1. [1.1] *MAIMOONA, A. - NAEEM, I. - SADDIQE, Z. - JAMEEL, K. A review on biological, nutraceutical and clinical aspects of French maritime pine bark extract. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2011, vol. 133, no. 2, p. 261-277, WOS*
- ADCA187 VRBJAR, Norbert - STRELKOVÁ, Silvia - ŠTEFEK, Milan - KYSEĽOVÁ, Zuzana - GAJDOŠÍKOVÁ, Alena. Effect of the pyridoindole antioxidant stobadine on sodium handling of renal Na,K-ATPase in rats with streptozotocin-induced diabetes. In *Acta Diabetologica*. - New York : Springer, 2004, vol. 41, no.4, p. 172 - 178. (0.811 - IF2003). (2004 - Current Contents). ISSN 0940-5429.
- Citácie:
1. [1.1] *SALMAN, I.M. - AMEER, O.Z. - SATTAR, M.A. - ABDULLAH, N.A. - YAM, M.F. - ABDULLAH, G.Z. - ABDULKARIM, M.F. - KHAN, M.A.H. - JOHNS, E.J. Renal Sympathetic Nervous System Hyperactivity in Early Streptozotocin-Induced Diabetic Kidney Disease. In NEUROUROLOGY AND URODYNAMICS. ISSN 0733-2467, 2011, vol. 30, no. 3, p. 438-446., WOS*
- ADCA188 WAGNEROVÁ, Jarmila - LÍŠKOVÁ, Aurélia - NAVAROVÁ, Jana - KRIŠTOFOVÁ, Alena - TRNOVEC, Tomáš - FERENČÍK, Miroslav. The effect of two glucan carboxymethyl derivatives with various substitution degrees on cyclophosphamide immunosuppression in mice. In *Immunopharmacology and immunotoxicology*, 1993, vol.15, no. 2-3, p.227-242. ISSN 0892-3973.

Citácie:

1. [1.1] *HOFER, M. - POSPISIL, M. Modulation of Animal and Human Hematopoiesis by beta-Glucans: A Review. In MOLECULES. ISSN 1420-3049, 2011, vol. 16, no. 9, p. 7969-7979., WOS*

- ADCA189 YOO, Byong Chul - VLKOLINSKÝ, Roman - ENGIDAWORK, Ephrem - CAIRNS, Nigel - FOUNTOULAKIS, Michael - LUBEC, Gert. Differential expression of molecular chaperones in brain of patients with Down syndrome. In Electrophoresis, 2001, vol. 22, no. 6, p.1233-1241. (3.385 - IF2000). (2001 - Current Contents). ISSN 0173-0835.

Citácie:

1. [1.1] *PERLUIGI, M. - DI DOMENICO, F. - FIORINI, A. - COCCIOLO, A. - GIORGI, A. - FOPPOLI, C. - BUTTERFIELD, D.A. - GIORLANDINO, M. - GIORLANDINO, C. - SCHININA, M.E. - COCCIA, R. Oxidative stress occurs early in Down syndrome pregnancy: A redox proteomics analysis of amniotic fluid. In PROTEOMICS CLINICAL APPLICATIONS. ISSN 1862-8346, 2011, vol. 5, no. 3-4, p. 167-178., WOS*

2. [1.1] *WU, L.W. - PENG, J. - WEI, C.P. - LIU, G. - WANG, G.L. - LI, K.Z. - YIN, F. Characterization, using comparative proteomics, of differentially expressed proteins in the hippocampus of the mesial temporal lobe of epileptic rats following treatment with valproate. In AMINO ACIDS. ISSN 0939-4451, 2011, vol. 40, no. 1, p. 221-238., WOS*

- ADCA190 YÜLEK, Fatma - OR, Meral - ÖZOGUL, Candan - CEYLAN-ISIK, Asli F. - ARI, Nuray - ŠTEFEK, Milan - BAUER, Viktor - KARASU, Çimen. Effects of stobadine and vitamin E in diabetes-induced retinal abnormalities: involvement of oxidative stress. In Archives of Medical Research, 2007, vol. 38, iss. 5, p. 503 - 511. (1.275 - IF2006). ISSN 0188-4409.

Citácie:

1. [1.1] *GARCIA-MEDINA, J.J. - PINAZO-DURAN, M.D. - GARCIA-MEDINA, M. - ZANON-MORENO, V. - PONS-VAZQUEZ, S. A 5-year follow-up of antioxidant supplementation in type 2 diabetic retinopathy. In EUROPEAN JOURNAL OF OPHTHALMOLOGY. ISSN 1120-6721, 2011, vol. 21, no. 5, p. 637-643., WOS*

2. [1.1] *TANG, J. - KERN, T.S. Inflammation in diabetic retinopathy. In PROGRESS IN RETINAL AND EYE RESEARCH. ISSN 1350-9462, 2011, vol. 30, no. 5, p. 343-358., WOS*

3. [1.2] *HIDAYAR, M. - WASIM, B. - AKRAM, S.F. - ASHRAF, E. Vitamin E ameliorates renal damage in streptozotocin induced diabetes in albino rats. In MEDICAL FORUM MONTHLY. ISSN 1029-385X, 2011, vol. 22, no. 12, p. 27-29, SCOPUS*

- ADCA191 ZÚROVÁ-NEDELČEVOVÁ, Jana - NAVAROVÁ, Jana - DRÁBIKOVÁ, Katarína - JANČINOVÁ, Viera - PETRÍKOVÁ, Margita - BERNÁTOVÁ, Iveta - KRISTOVÁ, Viera - ŠNIRC, Vladimír - NOSÁĽOVÁ, Viera - SOTNÍKOVÁ, Ružena. Participation of reactive oxygen species in diabetes-induced endothelial dysfunction. In Neuroendocrinology Letters, 2006, vol. 27, suppl. 2, p. 168 - 171. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.

Citácie:

1. [1.1] *BROSKOVA, Z. - KNEZL, V. Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS*

2. [1.1] *GUARDIGLI, M. - LUNDIN, A. - RODA, A. "Classical" Applications of Chemiluminescence and Bioluminescence. In Roda A. eds.*

CHEMILUMINESCENCE AND BIOLUMINESCENCE: PAST, PRESENT AND FUTURE. 2011, p. 143-190. ISBN: 978-1-84755-812-1, WOS

3. [1.1] LI, J.Q. - CHEN, X.Y. - XIAO, W. - MA, W. - LI, T. - HUANG, J.A. - LIU, X.L. - LIANG, X.L. - TANG, S.B. - LUO, Y. Mitochondria-targeted antioxidant peptide SS31 attenuates high glucose-induced injury on human retinal endothelial cells. In *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. ISSN 0006-291X, 2011, vol. 404, no. 1, p. 349-356., WOS

4. [1.1] OKUDAN, N. - ATALIK, K.E.N. - GOKBEL, H. - CANBILEN, A. - KARA, I. Alpha Lipoic Acid Treatment Improved Endothelium-dependent Relaxation in Diabetic Rat Aorta. In *YAKUGAKU ZASSHI-JOURNAL OF THE PHARMACEUTICAL SOCIETY OF JAPAN*. ISSN 0031-6903, 2011, vol. 131, no. 5, p. 739-744., WOS

ADCA192 ŽARKOVIČ, Neven - ŽARKOVIČ, Kamelija - SCHAUR, Rudolf Jörg - ŠTOLC, Svorad - SCHLAG, Günther - REDL, Heinz - WAEG, Georg - BOROVIC', Suzana - LONČARIC', Iva - JURIC', Gordana - HLAVKA, Vladimír. 4-hydroxynonenal as a second messenger of free radicals and growth modifying factor. In *Life Sciences*, 1999, vol. 65, nos. 18/19, p. 1901-1904. (1.937 - IF1998). (1999 - Current Contents). ISSN 0024-3205.

Citácie:

1. [1.1] HOLLMAN, P.C.H. - CASSIDY, A. - COMTE, B. - HEINONEN, M. - RICHELLE, M. - RICHLING, E. - SERAFINI, M. - SCALBERT, A. - SIES, H. - VIDRY, S. The Biological Relevance of Direct Antioxidant Effects of Polyphenols for Cardiovascular Health in Humans Is Not Established. In *JOURNAL OF NUTRITION*. ISSN 0022-3166, 2011, vol. 141, no. 5, p. 989S-1009S., WOS

ADDA Vedecké práce v domácich karentovaných časopisoch impaktovaných

ADDA01 BAUER, Viktor - BAUER, František. Reactive oxygen species as mediators of tissue protection and injury. In *General physiology and biophysics : an international journal*, 1999, vol.18, focus issue, p. 7-14. (0.714 - IF1998). (1999 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] AMARA, S. - DOUKI, T. - GARREL, C. - FAVIER, A. - BEN RHOUMA, K. - SAKLY, M. - ABDELMELEK, H. Effects of static magnetic field and cadmium on oxidative stress and DNA damage in rat cortex brain and hippocampus. In *TOXICOLOGY AND INDUSTRIAL HEALTH*. ISSN 0748-2337, 2011, vol. 27, no. 2, p. 99-106., WOS

2. [1.1] LUSHCHAK, V.I. Environmentally induced oxidative stress in aquatic animals. In *AQUATIC TOXICOLOGY*. ISSN 0166-445X, 2011, vol. 101, no. 1, p. 13-30., WOS

3. [1.1] WANG, J.S. - XU, X.J. - ZHAO, Y.W. - ZHENG, C.C. - LI, L.D. Exploring the application of conjugated polymer nanoparticles in chemical sensing: detection of free radicals by a synergy between fluorescent nanoparticles of two conjugated polymers. In *JOURNAL OF MATERIALS CHEMISTRY*. ISSN 0959-9428, 2011, vol. 21, no. 46, p. 18696-18703., WOS

4. [1.1] XUE, Y. - LUAN, Q.F. - YANG, D. - YAO, X. - ZHOU, K.B. Direct Evidence for Hydroxyl Radical Scavenging Activity of Cerium Oxide Nanoparticles. In *JOURNAL OF PHYSICAL CHEMISTRY C*. ISSN 1932-7447, 2011, vol. 115, no. 11, p. 4433-4438., WOS

5. [1.2] SARASWATHY, G.R. - MAHESWARI, E. - SANTHRANI, T. Effect of vitamin C supplementation on phenytoin induced behavioural abnormalities and regional lipid peroxidation in rats G R. In *INTERNATIONAL JOURNAL OF*

PHARAMCY AND TECHNOLOGY. ISSN 0975-766X, 2011, vol. 3, no. 2, p. 2248-2269, SCOPUS

ADDA02

BAUEROVÁ, Katarína - BEZEK, Štefan. Role of reactive oxygen and nitrogen species in etiopathogenesis of rheumatoid arthritis. In General physiology and biophysics : an international journal, 1999, vol. 18, focus Issue, p.15-20. (0.714 - IF1998). (1999 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] ANANTHI, S. - GAYATHRI, V. - CHANDRONITHA, C. - LAKSHMISUNDARAM, R. - VASANTHI, H.R. Free radical scavenging and anti-inflammatory potential of a marine brown alga *Turbinaria ornata* (Turner) J.Agardh. In INDIAN JOURNAL OF GEO-MARINE SCIENCES. ISSN 0379-5136, 2011, vol. 40, no. 5, p. 664-670., WOS
2. [1.1] ARULMOZHI, S. - MAZUMDER, P.M. - SATHIYANARAYANAN, L. - ASHOK, P. Anti-arthritis and antioxidant activity of leaves of *Alstonia scholaris* Linn. R.Br.. In EUROPEAN JOURNAL OF INTEGRATIVE MEDICINE. ISSN 1876-3820, 2011, vol. 3, no. 2, p. E83-E90., WOS
3. [1.1] ARYAEIAN, N. - DJALALI, M. - SHAHRAM, F. - JAZAYERI, S. - CHAMARI, M. - NAZARI, S.A. Beta-Carotene, Vitamin E, MDA, Glutathione Reductase and Arylesterase Activity Levels in Patients with Active Rheumatoid Arthritis. In IRANIAN JOURNAL OF PUBLIC HEALTH. ISSN 0304-4556, 2011, vol. 40, no. 2, p. 102-109., WOS
4. [1.1] BALAKRISHNA, A. - REDDY, M.V.N. - RAO, P.V. - KUMAR, M.A. - KUMAR, B.S. - NAYAK, S.K. - REDDY, C.S. Synthesis and bio-activity evaluation of tetraphenyl(phenylamino) methylene bisphosphonates as antioxidant agents and as potent inhibitors of osteoclasts in vitro. In EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY. ISSN 0223-5234, 2011, vol. 46, no. 5, p. 1798-1802., WOS
5. [1.1] KHAN, W.A. - MOINUDDIN - ASSIRI, A.S. Immunochemical Studies on Catechol-Estrogen Modified Plasmid: Possible Role in Rheumatoid Arthritis. In JOURNAL OF CLINICAL IMMUNOLOGY. ISSN 0271-9142, 2011, vol. 31, no. 1, p. 22-29., WOS
6. [1.1] LEWIS, A. - LEVY, A. Anti-inflammatory Activities of *Cassia alata* Leaf Extract in Complete Freund's Adjuvant Arthritis in Rats. In WEST INDIAN MEDICAL JOURNAL. ISSN 0043-3144, 2011, vol. 60, no. 6, p. 615-621., WOS
7. [1.1] MASKOVIC, P. - SOLUJIC, S. - MIHAJLOVIC, V. - MLADENOVIC, M. - CVIJOVIC, M. - MLADENOVIC, J. - ACAMOVIC-DOKOVIC, G. - KURCUBIC, V. Phenolic Compounds and Biological Activity of *Kitaibelia vitifolia*. In JOURNAL OF MEDICINAL FOOD. ISSN 1096-620X, 2011, vol. 14, no. 12, p. 1617-1623., WOS
8. [1.1] RAO, K.U.M. - SUNDAR, C.S. - PRASAD, S.S. - RANI, C.R. - REDDY, C.S. Neat Synthesis and Anti-oxidant Activity of alpha-Hydroxyphosphonates. In BULLETIN OF THE KOREAN CHEMICAL SOCIETY. ISSN 0253-2964, 2011, vol. 32, no. 9, p. 3343-3347., WOS
9. [1.2] BALBIR-GURMAN, A. - FUHRMAN, B. - BRAUN-MOSCOVICI, Y. - MARKOVITS, D. - AVIRAM, M. Consumption of pomegranate decreases serum oxidative stress and reduces disease activity in patients with active rheumatoid arthritis: A pilot study. In ISRAEL MEDICAL ASSOCIATION JOURNAL. ISSN 1565-1088, 2011, vol.13, no. 8, p. 474-479, SCOPUS
10. [1.2] CINCHANA, N.V. - SUJAN GANAPATHY, P.S. - SHRUTHI, S.D. In-vitro antioxidant and antibacterial activities of the four synthesized indole derivatives. In RESEARCH JOURNAL OF PHARMACEUTICAL , BIOLOGICAL AND CHEMICAL SCIENCES. ISSN 0975-8585, 2011, vol. 2, no. 2, p. 353-362,

SCOPUS

11. [1.2] MALI, S.M. - SINNATHAMBI, A. - KAPASE, C.U. - BODHANKAR, S.L. - MAHADIK, K.R. *Anti-arthritis activity of standardised extract of Phyllanthus amarus in Freund's complete adjuvant induced arthritis. In BIOMEDICINE AND AGING PATHOLOGY. ISSN 2210-5220, 2011, vol. 1, no. 3, p. 185-190,*

SCOPUS

12. [1.2] MEHTA, S.K. - MUKHERJEE, S. - JAIPRAKASH, B. *Anti-inflammatory activity of the methanolic extract of Buchanania Lanza leaves by carrageenan-induced rat paw oedema method. In INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES REVIEW AND RESEARCH. ISSN 0976-044X, 2011, vol. 6, no. 2, p. 144-146, SCOPUS*

13. [3] ASHWINI, P. - KRISHNAMOORTHY, M. *Antioxidant activity of ethanolic extract of Cassia tora L. In IJRAP, ISSN 2229-3566, 2011, vol. 2, no. 1 (2011), p. 250-252*

14. [3] PERECKO, T. - DRABIKOVA, K. - NOSAL, R. - HARMATHA, J. - JANCINOVA, V. *Pharmacological modulation of activated neutrophils by natural polyphenols. In Recent Research Developments in Pharmacology. Vol. 2. Trivandrum, Research Signpost 2011. P. 27-67. ISBN 978-81-308-0455-2*

15. [3] SINGHA, S. - SHARMA, P.K. - KUMARA, N. - DUDHE, R. *Anti-oxidant Activity of 2-hydroxyacetophenone Chalcone. In JOURNAL OF ADVANCED SCIENTIFIC RESEARCH. ISSN 0976-9595, 2011, vol. 2, no. 3, p. 37 - 41*

ADDA03 BILČÍKOVÁ, Ľudmila - BAUER, Viktor - KOLENA, Ján. The action of adrenoceptor agonists and antagonists on the guinea pig and dog trachea. In General Physiology and Biophysics, 1987, vol. 6, iss. 1, p. 87-101. ISSN 0231-5882.

Citácie:

1. [1.1] HIROTA, K. *Study on airway smooth muscle tone using fiberoptic bronchoscopy: Basic research and clinical application. In JOURNAL OF ANESTHESIA. ISSN 0913-8668, 2011, vol. 25, no. 1, p. 147-151, WOS*

ADDA04 DŘÍMAL, Ján - DŘÍMAL, Ján, Jr. - ORLICKÝ, Jozef - JANEČEK, A. - KETTMANN, Viktor - DŘÍMAL, Daniel - HÚŽAVOVÁ, M. Effects of human peptide endothelin-1 and two of its sterically unrestrained C-terminal fragments on coronary vascular smooth muscle. M. Húžavová. In General physiology and biophysics, 2002, vol. 21, no. 1, p. 3-13. (0.932 - IF2001). (2002 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] ZHANG, Y. - FU, C.J. - REN, H.M. - HE, D.F. - WANG, X.K. - ASICO, L.D. - JOSE, P.A. - ZENG, C.Y. *Impaired Stimulatory Effect of ETB Receptor on D-3 Receptor in Immortalized Renal Proximal Tubule Cells of Spontaneously Hypertensive Rats. In KIDNEY & BLOOD PRESSURE RESEARCH. ISSN 1420-4096, 2011, vol. 34, no. 2, p. 75-82., WOS*

ADDA05 KVALTÍNOVÁ, Zdenka - JURÁNEK, Ivo - MACHOVÁ, Jana - ŠTOLC, Svorad. Effect of oxidative stress on (3H)N-methylscopolamine binding and production of thiobarbituric acid reactive substances in rat cerebral cortex membranes. In General physiology and biophysics, 1993, vol. 12, no. 2, p. 155-161. (0.573 - IF1992). (1993 - Current Contents, WOS, SCOPUS). ISSN 0231-5882.

Citácie:

1. [1.1] KWON, S.H. - HONG, S.I. - KIM, J.A. - JUNG, Y.H. - KIM, S.Y. - KIM, H.C. - LEE, S.Y. - JANG, C.G. *The neuroprotective effects of Lonicera japonica THUNB. against hydrogen peroxide-induced apoptosis via phosphorylation of MAPKs and PI3K/Akt in SH-SY5Y cells. In FOOD AND CHEMICAL TOXICOLOGY. ISSN 0278-6915, 2011, vol. 49, no. 4, p. 1011-1019., WOS*
2. [1.1] KWON, S.H. - KIM, J.A. - HONG, S.I. - JUNG, Y.H. - KIM, H.C. - LEE,

- S.Y. - JANG, C.G. Loganin protects against hydrogen peroxide-induced apoptosis by inhibiting phosphorylation of JNK, p38, and ERK 1/2 MAPKs in SH-SY5Y cells. In NEUROCHEMISTRY INTERNATIONAL. ISSN 0197-0186, 2011, vol. 58, no. 4, p. 533-541., WOS*
- ADDA06 HORÁKOVÁ, Ľubica - JURÁNEK, Ivo - BOKNÍKOVÁ, B. Antioxidative effect of stobadine on lipid peroxidation on rat brain mitochondria. In *Biológia*, 1991, vol. 45, no. 4, p. 313-318. ISSN 0006-3088.
- Citácie:
- 1. [1.1] GAAFA, K.M. - BADAWY, M.M. - HAMZA, A.A. The protective effects of ascorbic acid, cimetidine, and nifedipine on diethyldithiocarbamate-induced hepatic toxicity in albino rats. In DRUG AND CHEMICAL TOXICOLOGY. ISSN 0148-0545, 2011, vol. 34, no. 4, p. 405-419., WOS*
- ADDA07 JURÁNEK, Ivo - BEZEK, Štefan. Controversy of free radical hypothesis: reactive oxygen species - cause or consequence of tissue injury? In *General physiology and biophysics : an international journal*. - Bratislava : Institute of Molecular Physiology and Genetics SAS, 2005, vol. 24, p. 263 - 278. (0.694 - IF2004). (2005 - Current Contents). ISSN 0231-5882.
- Citácie:
- 1. [1.1] FAROOQUI, A.A. Neurochemical Aspects of Neurodegenerative Diseases. In NEUROCHEMICAL ASPECTS OF NEUROTRAUMATIC AND NEURODEGENERATIVE DISEASES. New York: Springer, 2010. p. 249-324. ISBN 978-1-4419-6651-3, WOS*
- 2. [1.1] FAROOQUI, A.A. Neurodegeneration in Neural Trauma, Neurodegenerative Diseases, and Neuropsychiatric Disorders. In NEUROCHEMICAL ASPECTS OF NEUROTRAUMATIC AND NEURODEGENERATIVE DISEASES. New York: Springer, 2010. p. 1-25. ISBN 978-1-4419-6651-3, WOS*
- 3. [1.1] FAROOQUI, T. - FAROOQUI, A.A. Perspective and future developments on biogenic amines in the CNS. In BIOGENIC AMINES: PHARMACOLOGICAL, NEUROCHEMICAL AND MOLECULAR ASPECTS IN THE CNS. Hauppauge: Nova Science Publishers 2010. p. 371-386. ISBN 978-1-60876-625-3, WOS*
- 4. [1.1] KILCIKSIZ, S. - DEMIREL, C. - AYHAN, S.E. - ERDAL, N. - GURGUL, S. - TAMER, L. - AYAZ, L. N-acetylcysteine ameliorates nitrosative stress on radiation-inducible damage in rat liver. In JOURNAL OF BUON. ISSN 1107-0625, 2011, vol. 16, no. 1, p. 154-159., WOS*
- 5. [1.1] LAMOUREUX, L. - SIMON, S.L.R. - PLEWS, M. - STOBART, M. - GROSCHUP, M. - CZUB, S. - GRAHAM, C. - KNOX, J.D. Analysis of Clusterin Glycoforms in the Urine of BSE-Infected Fleckvieh-Simmental Cows. In JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH-PART A-CURRENT ISSUES. ISSN 1528-7394, 2011, vol. 74, no. 2-4, Sp. Iss. SI, p. 138-145., WOS*
- 6. [1.1] PERTSOV, S.S. - KOPLIK, E.V. - KALINICHENKO, L.S. Intensity of Oxidative and Antioxidant Processes in the Brain of Rats with Various Behavioral Characteristics during Acute Stress. In BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE. ISSN 0007-4888, 2011, vol. 152, no. 1, p. 1-4., WOS*
- 7. [1.1] POHANKA, M. Alzheimer's disease and related neurodegenerative disorders: implication and counteracting of melatonin. In JOURNAL OF APPLIED BIOMEDICINE. ISSN 1214-021X, 2011, vol. 9, no. 4, p. 185-196., WOS*
- 8. [1.1] RODRIGO, R. - MIRANDA, A. - VERGARA, L. Modulation of endogenous antioxidant system by wine polyphenols in human disease. In*

- CLINICA CHIMICA ACTA. ISSN 0009-8981, 2011, vol. 412, no. 5-6, p. 410-424., WOS*
9. [1.1] *SILVEIRA, P.C.L. - SILVA, L.A. - FREITAS, T.P. - LATINI, A. - PINHO, R.A. Effects of low-power laser irradiation (LPLI) at different wavelengths and doses on oxidative stress and fibrogenesis parameters in an animal model of wound healing. In LASERS IN MEDICAL SCIENCE. ISSN 0268-8921, 2011, vol. 26, no. 1, p. 125-131., WOS*
10. [1.2] *SELLÉS, A.J.N. Antioxidant therapy, oxidative stress and antioxidant products: Challenges and opportunities | [Terapia antioxidante, estrés oxidativo y productos antioxidantes: Retos y oportunidades]. In REVISTA CUBANA DE SALUD PUBLICA. ISSN 0864-3466, 2011, vol. 37, suppl. 5, p. 644-660, SCOPUS*
- ADDA08 *ROLLEROVÁ, E. - GÁSPÁROVÁ, Zdenka - WSÓLOVÁ, Ladislava - URBANČÍKOVÁ, Miroslava. Interaction of acetochlor with estrogen receptor in the rat uterus. Acetochlor - possible endocrine modulator? In General physiology and biophysics : an international journal, 2000, vol. 19, no.1, p.73-84. (0.400 - IF1999). (2000 - Current Contents). ISSN 0231-5882.*
- Citácie:*
1. [1.1] *HUANG, R.L. - XIA, M.H. - CHO, M.H. - SAKAMURU, S. - SHINN, P. - HOUCK, K.A. - DIX, D.J. - JUDSON, R.S. - WITT, K.L. - KAVLOCK, R.J. - TICE, R.R. - AUSTIN, C.P. Chemical Genomics Profiling of Environmental Chemical Modulation of Human Nuclear Receptors. In ENVIRONMENTAL HEALTH PERSPECTIVES. ISSN 0091-6765, 2011, vol. 119, no. 8, p. 1142-1148., WOS*
2. [1.1] *MNIF, W. - HASSINE, A.I.H. - BOUAZIZ, A. - BARTEGI, A. - THOMAS, O. - ROIG, B. Effect of Endocrine Disruptor Pesticides: A Review. In INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. ISSN 1660-4601, 2011, vol. 8, no. 6, p. 2265-2303., WOS*
- ADDA09 *SIVOŇOVÁ, Monika - ŽITŇANOVÁ, Ingrid - HORÁKOVÁ, Ľubica - ŠTROSOVÁ, Miriam - MUCHOVÁ, Jana - BALGAVÝ, Pavol - DOBROTA, Dušan - ĎURAČKOVÁ, Zdenka. The combined effect of Pycnogenol® with ascorbic acid and trolox on the oxidation of lipids and proteins. In General physiology and biophysics : an international journal, 2006, vol. 25, no. 4, p. 379-396. (0.560 - IF2005). (2006 - Current Contents). ISSN 0231-5882.*
- Citácie:*
1. [1.2] *MAIMOONA, A. - NAEEM, I. - SADDIQE, Z. - JAMEEL, K. A review on biological, nutraceutical and clinical aspects of French maritime pine bark extract. In JOURNAL OF ETHNOPHARMACOLOGY. ISSN 0378-8741, 2011, vol. 133, no. 2, p. 261-277, SCOPUS*
- ADDA10 *SKALSKÁ, Silvia - KYSEĽOVÁ, Zuzana - GAJDOŠÍKOVÁ, Alena - KARASU, Çimen - ŠTEFEK, Milan - ŠTOLC, Svorad. Protective effect of stobadine on NCV in streptozotocin-diabetic rats: augmentation by vitamin E. In General physiology and biophysics : international journal, 2008, vol. 27, no. 2, p.106-114. (1.286 - IF2007). (2008 - Current Contents, WOS, SCOPUS). ISSN 0231-5882.*
- Citácie:*
1. [1.1] *BROSKOVA, Z. - KNEZL, V. Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS*
2. [1.1] *SALEM, A.H.A. - NOSSEIR, N.S. - EL-BADAWI, M.G.Y. - SHOAIR, M.I. - FADEL, R.A.R. Growth Assessment of Diabetic Rat Fetuses under the Influence of Insulin and Melatonin: a Morphologic Study. In ANTHROPOLOGISCHER ANZEIGER. ISSN 0003-5548, 2011, vol. 68, no. 2, p. 129-138., WOS*

- ADDA11 SOTNÍKOVÁ, Ružena - SKALSKÁ, Silvia - OKRUHLICOVÁ, Ľudmila - NAVAROVÁ, Jana - KYSELOVÁ, Zuzana - NEDELČEVOVÁ, Jana - ŠTEFEK, Milan - HÓZOVÁ, Ružena - NOSÁLOVÁ, Viera. Changes in the function and ultrastructure of vessels in the rat model of multiple low dose streptozotocin-induced diabetes. In General physiology and biophysics : an international journal. - Bratislava : Institute of Molecular Physiology and Genetics SAS, 2006, vol. 25, no. 3, p. 289 - 302. (0.560 - IF2005). (2006 - Current Contents). ISSN 0231-5882.
Citácie:
1. [1.1] *SILVA, J.F.R. - CYRINO, F.Z.G.A. - BREITENBACH, M.M.D. - BOUSKELA, E. - CARVALHO, J.J. Vimentin and laminin are altered on cheek pouch microvessels of streptozotocin-induced diabetic hamsters. In CLINICS. ISSN 1807-5932, 2011, vol. 66, no. 11, p. 1961-1968, WOS*
- ADDA12 SOTNÍKOVÁ, Ružena - NOSÁLOVÁ, Viera - ŠTEFEK, Milan - ŠTOLC, Svorad - GAJDOŠÍK, Andrej - GAJDOŠÍKOVÁ, Alena. Streptozotocin diabetes-induced changes in aorta, peripheral nerves and stomach of Wistar rats. In General physiology and biophysics : an international journal, 1999, vol. 18, focus issue, p.155-162. (0.714 - IF1998). (1999 - Current Contents). ISSN 0231-5882.
Citácie:
1. [1.1] *LI, Y. - ZHANG, W. - LI, P.W. - HUANG, K.X. Effect of streptozotocin-induced diabetes mellitus on expression of methionine sulfoxide reductases and accumulation of their substrates in mouse lenses. In EXPERIMENTAL EYE RESEARCH. ISSN 0014-4835, 2011, vol. 92, no. 5, p. 401-407., WOS*
- ADDA13 STAŠKO, Andrej - ONDRIAŠ, Karol - MIŠÍK, Vladimír - SZÖCSOVÁ, Helena - GERGEL, Dalibor. Stobadine - a novel scavenger of free radicals. In Chemical papers, 1990, vol. 44, no. 4, p. 493-500. ISSN 0366-6352.
Citácie:
1. [1.1] *BROSKOVA, Z. - KNEZL, V. Protective effect of novel pyridoinole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS*
2. [3] *BAYRAKTAR, N. - DEVAY, S.D. -TASLIPINAR, M.Y. - UCANKUS, N.L. - GUMUSLU, S. - KAVUTCU, M. - CANBOLAT, O. Investigation of the effects of stobadine on the antioxidant enzymes in carbon tetrachloride mediated brain toxicity. [Karbon tetraklorür aracılı beyin toksisitesinde antioksidan enzimler üzerine stobadinin etkisinin araştırılması]. In TÜRK. BIYOKIMYA DERGISI [TURKISH JOURNAL OF BIOCHEMISTRY]. ISSN 0250-4685, 2011, vol. 36, no. 4, p. 283-289.*
- ADDA14 SZÖCS, Katalin. Endothelial dysfunction and reactive oxygen species production in ischemia/reperfusion and nitrate tolerance. In General physiology and biophysics : an international journal, 2004, vol. 23, no. 3, p. 265 - 295. (0.794 - IF2003). (2004 - Current Contents). ISSN 0231-5882.
Citácie:
1. [1.1] *CHOWDHURY, K.D. - SEN, G. - SARKAR, A. - BISWAS, T. Role of endothelial dysfunction in modulating the plasma redox homeostasis in visceral leishmaniasis. In BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS. ISSN 0304-4165, 2011, vol. 1810, no. 7, p. 652-665., WOS*
2. [1.1] *FERRIGNO, A. - RIZZO, V. - BONCOMPAGNI, E. - BIANCHI, A. - GRINGERI, E. - NERI, D. - RICHELMI, P. - FREITAS, I. - CILLO, U. - VAIRETTI, M. Machine perfusion at 20 degrees C reduces preservation damage to livers from non-heart beating donors. In CRYOBIOLOGY. ISSN 0011-2240, 2011, vol. 62, no. 2, p. 152-158., WOS*
3. [1.1] *HOOPER, D.C. - FABIS, M.J. - ROY, A. Free Radicals in Central*

Nervous System Inflammation. In OXIDATIVE STRESS AND FREE RADICAL DAMAGE IN NEUROLOGY. Book Series: Oxidative Stress in Applied Basic Research and Clinical Practice. New York, Springer 2011. p. 79-98. DOI: 10.1007/978-1-60327-514-9_6, ISBN: 978-1-60327-513-2, WOS

4. [1.1] JIN, S. - ZHOU, F. - KATIRAI, F. - LI, P.L. *Lipid Raft Redox Signaling: Molecular Mechanisms in Health and Disease. In ANTIOXIDANTS & REDOX SIGNALING. ISSN 1523-0864, 2011, vol. 15, no. 4, p. 1043-1083., WOS*

5. [1.1] KHAN, M. - SAKAKIMA, H. - DHAMMU, T.S. - SHUNMUGAVEL, A. - IM, Y.B. - GILG, A.G. - SINGH, A.K. - SINGH, I. *S-Nitrosoglutathione reduces oxidative injury and promotes mechanisms of neurorepair following traumatic brain injury in rats. In JOURNAL OF NEUROINFLAMMATION. ISSN 1742-2094, 2011, vol. 8, article number 78, DOI: 10.1186/1742-2094-8-78, WOS*

6. [1.2] SHABBIR, S. - KHAN, D.A. - KHAN, F.A. - ELAHI, M.M. - MATATA, B.M. *Serum gamma glutamyl transferase: A novel biomarker for screening of premature coronary artery disease. In CARDIOVASCULAR REVASCULARIZATION MEDICINE. ISSN 1553-8389, 2011, vol. 12, no. 6, p. 367-374, SCOPUS*

- ADDA15 ŠTROSOVÁ, Miriam - ŠKUCIOVÁ, Mária - HORÁKOVÁ, Ľubica. In vitro oxidative modification of sarcoplasmic reticulum Ca²⁺ -ATPase from rabbit skeletal muscle. In *Biologia*, 2005, vol. 60, suppl. 17, p. 153-156. (0.207 - IF2004). (2005 - Current Contents). ISSN 0006-3088.

Citácie:

1. [1.1] HORTIGON-VINAGRE, M.P. - CHARDONNET, S. - MONTIGNY, C. - GUTIERREZ-MARTIN, Y. - CHAMPEIL, P. - HENAO, F. *Inhibition by 4-hydroxynonenal (HNE) of Ca(2+) transport by SERCA1a: Low concentrations of HNE open protein-mediated leaks in the membrane. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 50, no. 11, p. 1700-1713., WOS*

2. [1.1] HORTIGON-VINAGRE, M.P. - CHARDONNET, S. - MONTIGNY, C. - GUTIERREZ-MARTIN, Y. - CHAMPEIL, P. - HENAO, F. *Inhibition by 4-hydroxynonenal (HNE) of Ca2+ transport by SERCA1a: Low concentrations of HNE open protein-mediated leaks in the membrane. In FREE RADICAL BIOLOGY AND MEDICINE. ISSN 0891-5849, 2011, vol. 50, no. 2, p. 323-336., WOS*

- ADDA16 UJHÁZY, Eduard - BALONOVÁ, Tatiana - ĎURIŠOVÁ, Mária - GAJDOŠÍK, Andrej - JANŠÁK, Jozef - MOLNÁROVÁ, A. Teratogenicity of cyclophosphamide in New Zealand white rabbits. In *Neoplasma*, 1993, vol. 40, no. 1, p. 45-49. (0.366 - IF1992). (1993 - Current Contents). ISSN 0028-2685.

Citácie:

1. [1.1] PARK, D. - YANG, Y.H. - CHOI, E.K. - YANG, G. - BAE, D.K. - LEE, S.H. - KIM, T.K. - KYUNG, J. - KIM, D. - CHOI, K.C. - KIM, Y.B. *Licorice extract increases cyclophosphamide teratogenicity by upregulating the expression of cytochrome P-450 2B mRNA. In BIRTH DEFECTS RESEARCH PART B-DEVELOPMENTAL AND REPRODUCTIVE TOXICOLOGY. ISSN 1542-9733, 2011, vol. 92, no. 6, p. 553-559., WOS*

- ADDA17 UJHÁZY, Eduard - DUBOVICKÝ, Michal - BALONOVÁ, Tatiana - JANŠÁK, Jozef. Teratological study of the antioxidant stobadine in rats. In *General physiology and biophysics*, 1999, vol. 18, focus iss., p. 171-176. (0.714 - IF1998). (1999 - Current Contents). ISSN 0231-5882.

Citácie:

1. [1.1] BROSKOVA, Z. - KNEZL, V. *Protective effect of novel pyridoinole derivatives on ischemia/reperfusion injury of the isolated rat heart. In*

PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974., WOS

ADEA Vedecké práce v zahraničných nekarentovaných časopisoch impaktovaných

- ADEA01 RAČKOVÁ, Lucia - JANČINOVÁ, Viera - PETRÍKOVÁ, Margita - DRÁBIKOVÁ, Katarína - NOSÁL, Radomír - ŠTEFEK, Milan - KOŠŤÁLOVÁ, Daniela - PRÓNAYOVÁ, Nad'a - KOVÁČOVÁ, Mária. Mechanism of anti-inflammatory action of liquorice extract and glycyrrhizin. In Natural product research, 2007, vol. 21, iss.14, p.1234-1241. (0.798 - IF2006). ISSN 1478-6419.
- Citácie:
1. [1.1] KATO, E. - SASAKI, Y. - TAKAHASHI, N. Sodium dl-alpha-tocopheryl-6-O-phosphate inhibits PGE(2) production in keratinocytes induced by UVB, IL-1 beta and peroxidants. In BIOORGANIC & MEDICINAL CHEMISTRY. ISSN 0968-0896, 2011, vol. 19, no. 21, p. 6348-6355., WOS
 2. [1.1] SHETTY, A.V. - THIRUGNANAM, S. - DAKSHINAMOORTHY, G. - SAMYKUTTY, A. - ZHENG, G.X. - CHEN, A.S. - BOSLAND, M.C. - KAJDACSY-BALLA, A. - GNANASEKAR, M. 18 alpha-glycyrrhetic acid targets prostate cancer cells by down-regulating inflammation-related genes. In INTERNATIONAL JOURNAL OF ONCOLOGY. ISSN 1019-6439, 2011, vol. 39, no. 3, p. 635-640., WOS
 3. [1.1] WEN, K.C. - CHEN, H.C. - CHANG, C.Y. - LIN, Y.T. - HSIU, S.L. - CHIANG, H.M. Development of an Assay Method for Natural Products Containing Cosmetics (II)-Licorice. In JOURNAL OF FOOD AND DRUG ANALYSIS. ISSN 1021-9498, 2011, vol. 19, no. 2, p. 230-237., WOS

ADEB Vedecké práce v zahraničných nekarentovaných časopisoch neimpaktovaných

- ADEB01 BAUEROVÁ, Katarína - NOSÁLOVÁ, Viera - MIHALOVÁ, Danica - NAVAROVÁ, Jana. Contribution to safe anti-inflammatory therapy with indomethacin. In Central European journal of public health. - Prague : National Institute of Public Health : Tigris, 2004, vol. 12, suppl., p. S8 - S10. ISSN 1210-7778.
- Citácie:
1. [1.1] JAIN, M. - PARMAR, H.S. Evaluation of antioxidative and anti-inflammatory potential of hesperidin and naringin on the rat air pouch model of inflammation. In INFLAMMATION RESEARCH. ISSN 1023-3830, 2011, vol. 60, no. 5, p. 483-491., WOS
- ADEB02 ČERNÁKOVÁ, Marta - KOŠŤÁLOVÁ, Daniela - KETTMANN, Viktor - PLODOVÁ, Miriam - TÓTH, Jaroslav - DŘÍMAL, Ján. Potential antimutagenic activity of berberine, a constituent of Mahonia aquifolium. In BMC Complementary and Alternative Medicine, 2002, vol. 2, no. 2, 6 p. ISSN 1472-6882. Názov z tlačenej formy PDF. Dostupné na internete: <<http://www.biomedcentral.com/1472-6882/2/2>>.
- Citácie:
1. [1.2] GARCIA, I. - FALL, Y. - GOMEZ, G. Trends in Bioinformatics and Chemoinformatics of vitamin D analogs and their protein targets. In CURRENT BIOINFORMATICS. ISSN 1574-8936, 2011, vol. 6, no. 1, p. 16-24, SCOPUS
 2. [1.2] MELIANI, N. - DIB, M.E.A. - ALLALI, H. - TABTI, B. Hypoglycaemic effect of Berberis vulgaris L. in normal and streptozotocin-induced diabetic rats. In ASIAN PACIFIC JOURNAL OF TROPICAL BIOMEDICINE. ISSN 2221 1691, 2011, vol. 1, no. 6, p. 468-471, SCOPUS
- ADEB03 CHABREČEK, Peter - ŠOLTÉS, Ladislav - ORVISKÝ, Eduard. Comparative

depolymerization of sodium hyaluronate by ultrasonic and enzymatic treatments. In Journal of Applied Polymer Science: Applied Polymer Symposium, 1991, vol. 48, p. 233-241. ISSN 0271-9460.

Citácie:

1. [1.1] DUAN, J.Y. - KASPER, D.L. *Oxidative depolymerization of polysaccharides by reactive oxygen/nitrogen species. In GLYCOBIOLOGY. ISSN 0959-6658, 2011, vol. 21, no. 4, p. 401-409., WOS*

ADEB04

MAČIČKOVÁ, Tatiana - PEČIVOVÁ, Jana - NOSÁL, Radomír - HOLOMÁŇOVÁ, Dagmar. Influence of carvedilol on superoxide generation and enzyme release from stimulated human neutrophils. In Biomedical Papers. - Olomouc : Palacký University, 2005, vol. 149, suppl. 1, p. 37. ISSN 1213-8118. Biomedical Papers, 2005, vol. 149, no. 2, p. 389-392. ISSN 1213-8118.

Citácie:

1. [1.1] KUMAR, A. - PRAKASH, A. - DOGRA, S. *Neuroprotective effect of carvedilol against aluminium induced toxicity: possible behavioral and biochemical alterations in rats. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 915-923., WOS*

ADEB05

NAVAROVÁ, Jana - UJHÁZY, Eduard - DUBOVICKÝ, Michal - MACH, Mojmír. Phenytoin induced oxidative stress in pre- and postnatal rat development - effect of vitamin E on selective biochemical variables. In Biomedical Papers, 2005, vol. 149, no. 2, p. 325 - 328. ISSN 1213-8118.

Citácie:

1. [1.2] SARASWATHY, G.R. - MAHESWARI, E. - SANTHRANI, T. *Effect of vitamin C supplementation on phenytoin induced behavioural abnormalities and regional lipid peroxidation in rats G R. In INTERNATIONAL JOURNAL OF PHARMACY AND TECHNOLOGY. ISSN 0975-766X, 2011, vol. 3, no. 2, p. 2248-2269, SCOPUS*

ADEB06

ONDREJIČKOVÁ, Oľga - ZIEGELHÖFFER, Attila - GABAUER, Ivan - SOTNÍKOVÁ, Ružena - STYK, Ján - GIBALA, Pavol - SEDLÁK, Jozef - HORÁKOVÁ, Ľubica. Evaluation of ischemia-reperfusion injury by malondialdehyde, glutathione and gamma-glutamyl transpeptidase: lack of specific local effects in diverse parts of the dog heart following acute coronary occlusion. In Cardioscience, 1993, vol. 4, no. 4, p. 225-229. ISSN 1015-5007.

Citácie:

1. [1.1] BAUEROVA, K. - PONIST, S. - KUNCIROVA, V. - MIHALOVA, D. - PAULOVICOVA, E. - VOLPI, N. *Chondroitin sulfate effect on induced arthritis in rats. In OSTEOARTHRITIS AND CARTILAGE. ISSN 1063-4584, 2011, vol. 19, no. 11, p. 1373-1379., WOS*

2. [2.2] BAUEROVA, K. - PONIST, S. - MIHALOVA, D. - DRAFI, F. - KUNCIROVA, V. *Utilization of adjuvant arthritis model for evaluation of new approaches in rheumatoid arthritis therapy focused on regulation of immune processes and oxidative stress. In INTERDISCIPLINARY TOXICOLOGY. ISSN 1337-6853, 2011, vol. 4, no. 1, p. 33-39, SCOPUS*

3. [3] BAUEROVA, K. - PONIST, S. - NOSAL, R. - STANCIKOVA, M. - ROVENSKY, J. *Modern pharmacological approaches to therapies: substances tested in animal models of rheumatoid arthritis. Chapt. 12. In Lemmey, A.B. Rheumatoid arthritis - treatment. Rijeka: InTech, 2011, p. 233-268. ISBN 978-953-307-850-2*

ADEB07

ŠTEFEK, Milan - BENEŠ, Luděk. In vitro studies on the activity of Japanese Kampo herbal medicines Oren-Gedoku-To (TJ-15) and Toki-Shakuyaku-San (TJ-23) as scavengers of free radicals. In Drug metabolism and drug interactions, 1994, vol. 11, no.1, p.25-36. ISSN 0334-2190.

Citácie:

1. [1.1] NISHIMURA, K. - OSAWA, T. - WATANABE, K. *Evaluation of Oxygen Radical Absorbance Capacity in Kampo Medicine. In EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE. ISSN 1741-427X, 2011. Article ID 812163, 7 p. DOI: 10.1093/ecam/nen082, WOS*
2. [1.1] ZHANG, Q.C. - QIAN, Z.L. - PAN, L.M. - LI, H. - ZHU, H.X. *The traditional Chinese medicine Huang-Lian-Jie-Du-Tang inhibits hypoxia-induced neuronal apoptosis. In AFRICAN JOURNAL OF PHARMACY AND PHARMACOLOGY. ISSN 1996-0816, 2011, vol. 5, no. 23, p. 2558-2565., WOS*

ADFA Vedecké práce v domácich nekarentovaných časopisoch impaktovaných

- ADFA01 GAJDOŠÍKOVÁ, Alena - GAJDOŠÍK, Andrej - KONERACKÁ, Martina - ZÁVIŠOVÁ, Vlasta - ŠTVRTINA, Svetoslav - KRCHNÁROVÁ, Viera - KOPČANSKÝ, Peter - TOMAŠOVIČOVÁ, Natália - ŠTOLC, Svorad - TIMKO, Milan. Acute toxicity of magnetic nanoparticles in mice. In *Neuroendocrinology Letters*, 2006, vol. 27, suppl. 2, p. 96 - 99. (1.005 - IF2005). (2006 - WOS, SCOPUS). ISSN 0172-780X.

Citácie:

1. [1.1] BHATTACHARYA, S. - KUDGUS, R.A. - BHATTACHARYA, R. - MUKHERJEE, P. *Inorganic Nanoparticles in Cancer Therapy. In PHARMACEUTICAL RESEARCH, 2011, vol. 28, no. 2, p. 237-259., WOS*
2. [1.1] CARD, J.W. - JONAITIS, T.S. - TAFAZOLI, S. - MAGNUSON, B.A. *An appraisal of the published literature on the safety and toxicity of food-related nanomaterials. In CRITICAL REVIEWS IN TOXICOLOGY, 2011, vol. 41, no. 1, p. 20-49., WOS*
3. [1.1] LIU, Y.X. - CHEN, Z.P. - WANG, J.K. *Systematic evaluation of biocompatibility of magnetic Fe(3)O(4) nanoparticles with six different mammalian cell lines. In JOURNAL OF NANOPARTICLE RESEARCH, 2011, vol. 13, no. 1, p. 199-212., WOS*
4. [1.2] ARRUEBO, M. - VILABOA, N. - SAEZ-GUTIERREZ, B. - LAMBEA, J. - TRES, A. - VALLADARES, M. - GONZALEZ-FERNANDEZ, A. *Assessment of the evolution of cancer treatment therapies. In CANCERS, 2011, vol. 3, no. 3, p. 3279-3330, SCOPUS*

ADFB Vedecké práce v domácich nekarentovaných časopisoch neimpaktovaných

- ADFB01 BEZEK, Štefan - UJHÁZY, Eduard - MACH, Mojmir - NAVAROVÁ, Jana - DUBOVICKÝ, Michal. Developmental origin of chronic diseases: toxicological implication. In *Interdisciplinary toxicology*, 2008, vol.1, no.1, p. 29-31. ISSN 1337-6853.

Citácie:

1. [1.1] KELISHADI, R. - POURSAFA, P. - KERAMATIAN, K. *Overweight, air and noise pollution: Universal risk factors for pediatric pre-hypertension. In JOURNAL OF RESEARCH IN MEDICAL SCIENCES. ISSN 1735-1995, 2011, vol. 16, no. 9, p. 1234-1250., WOS*

- ADFB02 DUBOVICKÝ, Michal - KOVAČOVSKÝ, Pavel - UJHÁZY, Eduard - NAVAROVÁ, Jana - BRUCKNEROVÁ, Ingrid - MACH, Mojmir. Evaluation of developmental neurotoxicity: some important issues focused on neurobehavioral development. In *Interdisciplinary toxicology*, 2008, vol.1, no.3-4, p.206-210. ISSN 1337-6853.

Citácie:

1. [1.1] *PELLOW, J. - SOLOMON, E.M. - BARNARD, C.N. Complementary and Alternative Medical Therapies for Children with Attention-Deficit/Hyperactivity Disorder (ADHD). In ALTERNATIVE MEDICINE REVIEW. ISSN 1089-5159, 2011, vol. 16, no. 4, p. 323-337., WOS*
- ADFB03 GIBALA, Pavol - SOTNÍKOVÁ, Ružena - DŘÍMAL, Ján. Antiarytmická aktivita látky DH 1011 : [Antiarrhythmic activity of the substance DH 1011]. In Bratislavské lekárske listy : international journal for biomedical sciences and clinical medicine, 1985, roč. 84, č. 2, s. 137-144. ISSN 0006-9248.
Citácie:
1. [1.1] *BROSKOVA, Z. - KNEZL, V. Protective effect of novel pyridoindole derivatives on ischemia/reperfusion injury of the isolated rat heart. In PHARMACOLOGICAL REPORTS. ISSN 1734-1140, 2011, vol. 63, no. 4, p. 967-974, WOS*
- ADFB04 JAKUŠ, Vladimír - BAUEROVÁ, Katarína - MICHALKOVÁ, D. - ČÁRSKY, J. Values of Markers of Early and Advances Glycation and Lipoxidation in Serum Proteins of Children with Diabetes Mellitus. In Bratislavské lekárske listy, 2000, roč. 101, č. 9, s. 484-489. ISSN 0006-9248.
Citácie:
1. [1.1] *CHIAVAROLI, V. - GIANNINI, C. - DE MARCO, S. - CHIARELLI, F. - MOHN, A. Unbalanced oxidant-antioxidant status and its effects in pediatric diseases. In REDOX REPORT. ISSN 1351-0002, 2011, vol. 16, no. 3, p. 101-107., WOS*
- ADFB05 KITTOVÁ, Margita - GIBALA, Pavol - DŘÍMAL, Ján. Antiarytmické a hemodynamické účinky derivátu pyridoindolu (DH 1011) na experimentálne modely porúch rytmu a funkcie srdca : [Antiarrhythmic and hemodynamic effects of a pyridoindole derivative (DH 1011) on models of heart rhythm and function derangements]. In Bratislavské lekárske listy : international journal for biomedical sciences and clinical medicine, 1985, roč. 84, č. 5, s. 542-556. ISSN 0006-9248.
Citácie:
1. [1.2] *ALEKSEYEV, R.S. - KURKIN, A.V. - YUROVSKAYA, M.A. Gamma-Carbolines and their hydrogenated derivatives 3. Hydrogenated derivatives of gamma-carbolines: Chemical and biological poperties (Review). In CHEMISTY OF HETEROCYCLIC COMPOUNDS. ISSN 0009-3122, 2011, vol. 46, no. 10, p. 1169-1198, SCOPUS*
- ADFB06 MIŠÍK, Vladimír - ONDRIAŠ, Karol - GERGEL, Dalibor. Antioxidačné vlastnosti niektorých kardioaktívnych látok : [Antioxidative properties of some cardioactive substances]. In Bratislavské lekárske listy : international journal for biomedical sciences and clinical medicine, 1993, roč. 94, č. 2, s. 66-70. ISSN 0006-9248.
Citácie:
1. [1.2] *KARASU, Ç. Glycoxidative stress and cardiovascular complications in experimentally- induced diabetes: Effects of antioxidant treatment . In OPEN CARDIOVASCULAR MEDICINE JOURNAL. ISSN 1874-1924, 2010, vol. 4, spec.iss. 2, p. 240-256, SCOPUS*

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

- AEC01 ŠTOLC, Svorad - HORÁKOVÁ, Ľubica. Effect of stobadine on postischemic lipid peroxidation in the rat brain. In New trends in clinical neuropharmacology: calcium antagonists, acute neurology, headache and movement disorders : proceedings of the Vth European workshop on clinical neuropharmacology, Bratislava, july 6-8, 1987. Edited by Daniel Bartko, Peter Turčáni, Gerald Stern. - London : John Libbey, 1988,

p. 59 - 63. ISBN 0-86196-146-3.

Citácie:

1. [1.1] BAYRAKTAR, N. - DEVAY, S.D. - TASLIPINAR, M.Y. - UCANKUS, N.L. - OMEROGLU, S. - GUMUSLU, S. - KAVUTCU, M. - CANBOLAT, O.

Investigation of the effects of stobadine on the antioxidant enzymes in carbon tetrachloride mediated brain toxicity. In TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI. ISSN 0250-4685, 2011, vol. 36, no. 4, p. 283-289., WOS

AEGA Stručné oznámenia, abstrakty vedeckých prác v zahraničných karentovaných časopisoch impaktovaných

AEGA01 NOSÁĽOVÁ, Viera - ČERNÁ, Silvia - SCHUNACK, W. - GRANDI, D. - CORUZZI, G. Effects of (R)alpha-methylhistamine on experimental colitis. In Inflammation research. - Basel : Birkhäuser, 2001, vol. 50, suppl. 2, p. S108 - S109. (1.560 - IF2000). (2001 - Current Contents). ISSN 1023-3830.

Citácie:

1. [1.1] FORLAND, D.T. - JOHNSON, E. - SAETRE, L. - LYBERG, T. - LYGREN, I. - HETLAND, G. *Effect of an Extract Based on the Medicinal Mushroom Agaricus blazei Murill on Expression of Cytokines and Calprotectin in Patients with Ulcerative Colitis and Crohn's disease. In SCANDINAVIAN JOURNAL OF IMMUNOLOGY. ISSN 0300-9475, 2011, vol. 73, no. 1, p. 66-75., WOS*

Príloha D

Údaje o pedagogickej činnosti organizácie

Semestrálne prednášky:

RNDr. Mojmír Mach, PhD.

Názov semestr. predmetu: Vybrané kapitoly z psychofarmakológie

Počet hodín za semester: 3

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

prof. MUDr. Radomír Nosál, DrSc.

Názov semestr. predmetu: Možnosti farmakologického ovplyvnenia výkonu športovca. Dopingová kontrola

Počet hodín za semester: 4

Názov katedry a vysokej školy: Fakulta telesnej výchovy a športu UK, Katedra športovej kinantropológie

Ing. Lucia Račková, PhD.

Názov semestr. predmetu: Biomolekulový dizajn

Počet hodín za semester: 20

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Ústav biochémie, výživy a ochrany zdravia

Doc. RNDr. Eduard Ujházy, CSc.

Názov semestr. predmetu: Základy experimentálnej teratológie

Počet hodín za semester: 18

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

Semestrálne cvičenia:

PharmDr. Katarína Bauerová, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 240

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

PharmDr. Katarína Bauerová, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 120

Názov katedry a vysokej školy: Lekárska fakulta UK, Katedra lekárskej chémie, biochémie a klinickej biochémie

RNDr. Katarína Drábiková, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

RNDr. Katarína Drábiková, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

Mgr. František Dráfi, PhD.

Názov semestr. predmetu: Semináre z farmakológie v SJ a v AJ

Počet hodín za semester: 16

Názov katedry a vysokej školy: Jesseniova lekárska fakulta UK v Martine, Farmakologický ústav

RNDr. Michal Dubovický, CSc.

Názov semestr. predmetu: bakalárska práca

Počet hodín za semester: 60

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

RNDr. Michal Dubovický, CSc.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

RNDr. Michal Dubovický, CSc.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

RNDr. Zdenka Gáspárová, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

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

RNDr. Zdenka Gáspárová, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

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

PharmDr. Viera Jančinová, CSc.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

RNDr. Mojmír Mach, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

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

RNDr. Magdaléna Májeková, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra fyzikálnej chémie liečiv

prof. MUDr. Radomír Nosál, DrSc.

Názov semestr. predmetu: Možnosti farmakologického ovplyvnenia výkonu športovca. Dopingová kontrola

Počet hodín za semester: 2

Názov katedry a vysokej školy: Fakulta telesnej výchovy a športu UK, Katedra športovej kinantropológie

RNDr. Ružena Sotníková, PhD.

Názov semestr. predmetu: Diplomová prax

Počet hodín za semester: 60

Názov katedry a vysokej školy: Farmaceutická fakulta UK, Katedra farmakológie a toxikológie

Doc. RNDr. Eduard Ujházy, CSc.

Názov semestr. predmetu: Základy experimentálnej teratológie

Počet hodín za semester: 6

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

RNDr. Jana Viskupičová, PhD.

Názov semestr. predmetu: Laboratórne cvičenia z biológie

Počet hodín za semester: 60

Názov katedry a vysokej školy: Fakulta chemickej a potravinárskej technológie STU, Oddelenie biochémie a mikrobiológie

RNDr. Jana Viskupičová, PhD.

Názov semestr. predmetu: Laboratórne cvičenia z Mikrobiológie

Počet hodín za semester: 30

Názov katedry a vysokej školy: Slovenská technická univerzita v Bratislave, Ústav biochémie, výživy a ochrany zdravia FCHPT STU

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	Katarína Valachová	240				
Česko	Katarína Drábiková	2				
	Viera Jančinová	2				
	Tatiana Mačičková	2				
	Radomír Nosál	2				
	Zuzana Straková	2				
Grécko					Marta Šoltéssová	6
Rumunsko	Magdaléna Májeková	3				
Španielsko					Ivana Miláčková	42
Taliansko	Katarína Bauerová	10				
	Viera Kuncírová	9				
Počet vyslaní spolu	9	272			2	48

(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	Doc. Antonín Lojek, PhD.	2				
	Dr. Ondřej Vašíček	1				
	RNDr. Milan Číž, PhD.	2				
Rumunsko	Camelia Stecoza	2				
	Mihai Nitulescu	2				
Taliansko					Dr. Aquaviva	30
					Prof. Volpi	4
USA					Prof. James B. Lucot	10
Počet prijatí spolu	5	9			3	44

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

Krajina	Názov konferencie	Meno pracovníka	Počet dní
Francúzsko	COST MC míting	Ľubica Horáková	3
Írsko	EHRS	Radomír Nosál'	5
		Tomáš Perečko	5
Rakúsko	EuroQSAR 2012	Magdaléna Májeková	3
Španielsko	EPHAR 2012	Ľubica Horáková	4
		Milan Štefek	4
	FEPS Meeting	Ružena Sotníková	5
Švédsko	EUROTOX	Mojmír Mach	7
Turecko	ECOPRAM-2012	Milan Štefek	4
Veľká Británia	SFRR	Dušan Blaškovič	4
		Ľubica Horáková	4
		Ivana Miláčková	4
		Milan Štefek	4
		Petronela Žižková	4
Spolu	8	14	60

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

Skratky použité v tabuľke C:

COST MC míting - COST MC míting

ECOPRAM-2012 - ECOPRAM-2012

EHRS - 41st Annual meeting of the EHRS, held jointly with COST Action BM0806

EPHAR 2012 - EPHAR 2012

EuroQSAR 2012 - EuroQSAR 2012

EUROTOX - EUROTOX 2012

FEPS Meeting - FEPS Meeting, Santiago de Compostela

SFRR - Konferencia SFRR