

67. Česko-Slovenské farmakologické dni

Stará Lesná, 2. – 4. 10. 2017

Kongresové centrum SAV Academia

Program

2. október 2017, pondelok

ŽST Poprad

13,15 Očakávaný príchod účastníkov zo smeru Praha, Plzeň, Hradec Králové, Olomouc, Brno

14,00 Odchod autobusu zo ŽST Poprad do Kongresového centra SAV Academia v Starej Lesnej

Kongresové centrum SAV Academia

10,00 – 17,30 Registrácia

15,30 – 15,45 Otvorenie konferencie

15,45 – 16,30 Plenárna prednáška

EXAMPLES HOW CYTOCHROME P450 STRUCTURE DETERMINES ITS STABILITY AND ABILITY TO INTERACT WITH DRUG ENANTIOMERS

Krasulova K¹, Anzenbacherová E², Dvořák Z³, Holas O⁴, **Anzenbacher P¹**

¹Department of Pharmacology and ²Department of Medical Chemistry and Biochemistry, Faculty of Medicine and Dentistry, Hněvotínská 3, 775 15 Olomouc, ³Department of Cell Biology and Genetics, 17. listopadu 1192/12, 771 46 Olomouc; ⁴Department of Pharmacology and Toxicology, faculty of Pharmacy, Charles University, Heyrovského 1203/8, 500 02 Hradec Králové; Czech Republic

17,00 – 20,00 Prípitok a občerstvenie pri posteroch, posterová sekcia I. (nepárne/liché čísla)

3. október 2017, utorok

08,30 – 16,30 Registrácia

08,30 – 10,30 Experimentálna farmakológia a toxikológia I.

(predsedníctvo: RNDr. M. Dubovický, CSc., prof. RNDr. P. Anzenbacher, DrSc.)

08,30 – 09,00 IRON DEPLETION MODULATES LIVER CHOLESTEROL METABOLISM IN RATS

Micuda S¹, Prasnicka A^{1,3}, Cermanova J¹, Lastuvkova H¹, Hajkova J¹, Dolezelova E³, Chladek J¹, Faradonbeh F A¹, Hroch M², Lenicek M⁵, Nachtigal P³, Vitek L⁵, Pavek P⁴

¹Department of Pharmacology, ²Department of Biochemistry, Faculty of Medicine in Hradec Kralove, Charles University, Czech Republic; ³Department of Biological and Medical Sciences, ⁴Department of Pharmacology and Toxicology Faculty of Pharmacy in Hradec Kralove, Charles University, Czech Republic; ⁵Department of Medical Biochemistry and Laboratory Diagnostics, 1st Faculty of Medicine, Charles University in Prague, Prague, Czech Republic

09,00 – 09,20 SOLUBLE ENDOGLIN DECREASES PLASMA CHOLESTEROL AND BILE ACIDS LEVELS IN MICE

Dolezelova E¹, Prasnicka A¹, Cermanova J², Lenicek M³, Vitek L³, Hyspler R⁴, Ticha A⁴, Lopez-Novoa J M⁵, Micuda S², Nachtigal P¹

¹ Department of Biological and Medical Sciences, Faculty of Pharmacy in Hradec Kralove, Charles University, Czech Republic; ² Department of Pharmacology, Faculty of Medicine in Hradec Kralove, Charles University, Czech Republic; ³ Institute of Clinical Biochemistry and Laboratory Diagnostics, 1st Faculty of Medicine, Charles University in Prague, Czech Republic; ⁴ Department of Research and Development, University Hospital Hradec Kralove, Czech Republic; ⁵ Department of Physiology and Pharmacology, University of Salamanca, Salamanca, Spain

09,20 - 09,40 EFFECTS OF VENLAFAXINE TREATMENT ON THE NEUROBEHAVIORAL DEVELOPMENT OF THE RAT OFFSPRING

Bögi E¹, Belovičová K^{1,2}, Csatlósová K^{1,2}, Ujhazy E¹, Mach M¹, Dubovický M¹

¹ Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences Bratislava, Slovakia
² Department of Pharmacology, Jessenius Faculty of Medicine, Comenius University, Martin, Slovakia

09,40 – 10,00 STEREOISOMERS OF INDOLEAMINE 2,3-DIOXYGENASE (IDO) INHIBITOR - 1-METHYL-TRYPTOPHAN IMPROVE RENAL FUNCTION IN ISCHEMIA-REPERFUSION INJURY INDEPENDENTLY ON IDO INHIBITION

Čepcová D¹, Mišúth S¹, Tumová I¹, Kema I P², Vavrinc P¹, Vavrincová-Yaghi D¹

¹Department of Pharmacology and Toxicology, Comenius University in Bratislava, Odbojárov 10, Bratislava, Slovakia
² Department of Laboratory Medicine, University of Groningen, University Medical Center Groningen, The Netherlands

10,00 – 10,30 Prestávka

- 10,30 – 12,00 Experimentálna farmakológia a toxikológia II.
(predsedníctvo: doc. RNDr. E. Kmoníčková, CSc., M. Mach, PhD)**
- 10,30 – 11,00 TARGETING OXIDATIVE DEGENERATION BY REDOX MODULATING PHYTOCONSTITUENTS IN OSTEOARTHRITIC ARTICULAR CHONDROCYTE CULTURES
Elmazoğlu Z¹, Yarayıcı S¹, Aydın Bek Z¹, Aktekin C N², Bitik B³, Göker B⁴, **Karasu C¹**
- ¹ Cellular Stress Response & Signal Transduction Research Laboratory, Department of Medical Pharmacology,
² Yıldırım Beyazıt University, Department of Orthopedics & Traumatology,
³ Ankara Research and Training Hospital, Ankara, Turkey
⁴ Rheumatology, Gazi University, Faculty of Medicine
- 11,00 – 11,20 PROTECTIVE EFFECTS OF OLIVE POLYPHENOLS AGAINST NEUROTOXIN-INDUCED CELLULAR MODEL OF PARKINSON'S DISEASE
Elmazoğlu Z¹, Karasu C¹
- ¹ Cellular Stress Response & Signal Transduction Research Laboratory, Department of Medical Pharmacology, Gazi University, Faculty of Medicine, Ankara, Turkey
- 11,20 - 11,40 LIGAND-BASED DRUG DESIGN STRATEGY IN SEARCHING FOR NOVEL ALDOSE REDUCTASE INHIBITORS IN DATABASES OF INDOLE-1-ACETIC ACIDS
Balleková J¹, Šoltéssová-Prnová M¹, Štefek M¹, **Májeková M¹**
- ¹ Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská cesta 9, Bratislava, Slovakia
- 11,40 – 12,00 IN SILICO AND EXPERIMENTAL STUDIES ON CEMTIRESTAT, A NOVEL ALDOSE REDUCTASE INHIBITOR BASED ON CARBOXYMETHYLATED MERCAPTOTRIAZINOINDOLE SCAFFOLD
Soltesova-Prnova M¹, Ballekova J¹, Majekova M¹, Stefek M¹
- ¹ Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská cesta 9, Bratislava, Slovakia, marta.prnova@savba.sk
- 12,00 – 14,00 Obedňajšia prestávka**

14,00 – 16,00 Klinická farmakológia a toxikológia

(predsedníctvo: doc. RNDr. I. Tumová, CSc., prof. MUDr. O. Slanař, PhD.)

14,00 – 14,30 DRUG RISK EVALUATION IN PERINATOLOGY

Kriška M¹, Tomo I², Raganová A¹, Kristová V¹, Tisonová J¹, Laššanová M¹

¹ Department of pharmacology and clinical Pharmacol. Faculty of Medicine

² Department of biology and genetics Faculty of Medicine UK, Sasinkova 4, 811 08 Bratislava

14,30 – 14,50 INTERNAL VALIDATION OF PHARMACOKINETIC MODELS USED WITHIN THERAPEUTIC DRUG MONITORING ROUTINES

Šíma M¹, Bakhouché H¹, Hartinger J¹, Cikánková T¹, Slanař O¹

¹ Department of Pharmacology, First Faculty of Medicine, Charles University and General University Hospital in Prague, Albertov 4, 128 00 Prague 2, Czech Republic

14,50 - 15,10 THE DOSAGE REGIMEN OPTIMIZATION FOR PHENOBARBITAL IN ASPHYXIATED NEONATES TREATED WITH THERAPEUTIC HYPOTHERMIA

Pokorná P^{1,2,3}, Šíma M², Posch L¹, Slanař O², van den Anker J^{3,4,5}, Allegaert K^{3,6}, Tibboel D^{1,3}

¹ Department of Pediatrics, First Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Ke Karlovu 2, 128 08 Prague, Czech Republic

² Institute of Pharmacology, First Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Albertov 4, Prague 2, 128 00, Czech Republic

³ Intensive Care and Department of Pediatric Surgery, Erasmus MC - Sophia Childrens Hospital, Rotterdam, the Netherlands

15,10 – 15,30 THE IMPACT OF SUFENTANIL AND MIDAZOLAM DOSING ON SAFETY AND EFFICACY OF ANALGOSEDATION DURING THERAPEUTIC HYPOTHERMIA IN ASPHYXIATED NEONATES

Hronová K¹, Klement P², Pokorná P^{1,2,3}, Slanař O¹

¹ Department of Pharmacology, Charles University, Albertov 4, 128 00, Prague 2

² Clinic of Pediatrics and Adolescent Medicine, General University Hospital, Ke Karlovu 2, 12100, Prague 2

³ Intensive Care and Department of Paediatric Surgery, Erasmus MC - Sophia Children's Hospital, Rotterdam, the Netherlands, Wytemaweg 80, 3015 CN Rotterdam, the Netherlands

15,30 – 15,50 ASPECTS OF HYPOLIPIDEMIC PHARMACOTHERAPY IN GERIATRIC PATIENTS

Blechová R¹

¹ Department of Human Pharmacology and Toxicology, Faculty of Pharmacy, VFU Brno

15,50 – 16,20 Prestávka

16,20 – 17,20 Varia

(predsedníctvo: doc. Ing. P. Česla, PhD., T. Perečko, PhD.)

16,20 – 16,40 LC-MS BASED METABOLOMICS: A NEW INSIGHT INTO THE DIAGNOSTICS OF KNOWN DISEASES.

Kertys M¹, Urbanová A¹, Medved'ová M¹, Mokry J¹

¹ Department of Pharmacology and BioMed, Jessenius faculty of Medicine in Martin, Comenius University in Bratislava, Slovakia

16,40 – 17,00 CHANGES IN SELECTED MARKERS OF OXIDATIVE AND IMMUNOLOGICAL STATUS IN ELITE ATHLETES DURING WINTER

Michaličkova D¹, Minić R², Kotur-Stevuljević J³, Đorđević B⁴, Slanař O¹

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³ Department of Medical Biochemistry, Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, Belgrade, Serbia; ⁴Department of Bromatology, Faculty of Pharmacy, University of Belgrade, Vojvode Stepe 450, Belgrade, Serbia

17,00 - 17,20 A NEW APPROACH FOR TEACHING OF TOXICOLOGY – LARNING THROUGH OPEN EDUCATIONAL RESOURCES

Vopršalová M¹, Pourová J¹, Applová L¹, Mladěnka P¹, Morales A I²

¹ Department of Pharmacology and Toxicology, Faculty of Pharmacy, Charles University, Heyrovského 1203, Hradec Králové, Czech Republic;

² Department of Physiology and Pharmacology, Faculty of Pharmacy, University of Salamanca, Campus Miguel de Unamuno, 37007, Salamanca, Spain

17,20 – 18,20 Rokovanie výborov (SFaS SLS a ČSEFKT ČLS JEP)

17,20 – 19,20 Posterová sekcia II. (párne/sudé čísla)

20,30 – 00,30 Spoločenský večer

4. október 2017, streda

08,30 – 10,30 Experimentálna farmakológia a toxikológia III.

(predsedníctvo: prof. MVDr. J. Mojžiš, CSc., doc. PharmDr. P. Kollár, PhD.)

08,30 – 09,00 SESQUITERPENE LACTONE TRILOBOLIDE: ITS ANTI-CANCER POTENTIAL AND BEHIND
Kmoníčková E¹, Rimpelová S², Zídek Z³, Džubák P⁴, Jurášek M², Drašar P²

¹ Department of Pharmacology and Toxicology, Faculty of Medicine in Pilsen, Charles University, alej Svobody 76, Pilsen

² University of Chemistry and Technology, Prague; ³ The Czech Academy of Sciences, Prague, Institute of Molecular and Translational Medicine, Faculty of Medicine and Dentistry, Palacky University, Olomouc; Czech Republic

09,00 – 09,20 β -ESCIN AS POTENTIAL ANTI-ANGIOGENIC AGENT IN HUVECS
Fáber L¹, Varinská L^{1,2}, Gál P^{1,2}, Kello M¹, Petrovová E³, Balažová L⁴, Mirossay L¹, Mojžiš J¹

¹ Department of Pharmacology, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, Tr. SNP 1, Košice, Slovakia

² Department for Biomedical Research, East-Slovak Institute of Cardiovascular Diseases, Inc., Ondavská 8, Košice, Slovakia

³ Department of Anatomy, Histology and Physiology, University of Veterinary Medicine and Pharmacy, Komenského 73, Košice, Slovakia

⁴ Department of Pharmacognosy and Botany, University of Veterinary Medicine and Pharmacy, Komenského 73, Košice, Slovakia

09,20 - 09,40 ANTIPROLIFERATIVE AND PRO-APOPTOTIC EFFECT OF NOVEL SALICYLANILIDE DERIVATIVES ON HUMAN CANCER CELL LINES

Kauerová T¹, Goněc T², Jampílek J³, Hafner S⁴, Syrovets T⁴, Kollár P¹

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² Department of Chemical Drugs, Faculty of Pharmacy, University of Veterinary and Pharmaceutical Sciences Brno, Palackého tř. 1946/1, 612 42 Brno, Czech Republic

³ Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Comenius University, Odbojárov 10, 832 32 Bratislava, Slovakia

⁴ Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Helmholtzstraße 20, D-89081 Ulm, Germany

09,40 – 10,00 ANTIOXIDATIVE EFFECTS OF A MITOCHONDRALLY TARGETED ANTIOXIDANT MITOQ ON FIBROBLASTS EXPOSED TO OXIDATIVE STRESS

Valachová K¹, Topol'ská D¹, Šoltés L¹

¹ Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská cesta 9, 84104, Bratislava, Slovakia

10,00 – 10,30 Prestávka

10,30 – 12,00 Experimentálna farmakológia a toxikológia IV.

(predsedníctvo: prof. MUDr. V. Kristová, CSc., doc. RNDr. S. Fraňová, PhD.)

10,30 – 10,50 ENDOTHELIN SYSTEM IN MONOCROTALINE MODEL OF PULMONARY HYPERTENSION
Vetešková J¹, Radík M¹, Kmecová Z¹, Marušáková M¹, Malíková E¹, Vavrínek P¹, Vavrinová D¹,
Klimas J¹, Křenek P¹

¹ Department of pharmacology and toxicology, Faculty of pharmacy, Odbojárov 10, Bratislava

10,50 – 11,10 PROTEIN EXPRESSION OF CAVEOLIN-1 IN NITRATE THERAPY IN EXPERIMENTAL
MODEL OF MONOCROTALINE INDUCED PULMONARY HYPERTENSION
Kmecová Z¹, Malíková E¹, Zsigmondová B¹, Radík M¹, Vetešková J¹, Marušáková M¹, Křenek P¹,
Klimas J¹

¹ Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in
Bratislava

11,10 - 11,30 DYNAMICS OF HGF SYSTEM KEY COMPONENTS IN RAT MODEL OF PULMONARY
HYPERTENSION
Radík M¹, Kmecová Z¹, Vetešková J¹, Marušáková M¹, Malíková E¹, Dóka G¹, Křenek P¹,
Klimas J¹

¹ Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University,
Odbojárov 10, 832 32 Bratislava, Slovakia

11,30 – 11,50 EFFECTS OF NONSELECTIVE COX-1/COX-2 INHIBITORS AND NITRIC OXIDE SYNTHASE
INHIBITORS ON VASCULAR REACTIVITY OF A. FEMORALIS IN RATS
Petrová M¹, Kristová V¹, Vojtko R¹

¹ Department of Pharmacology and Clinical Pharmacology, Faculty of Medicine, Comenius
University, Bratislava, Slovakia

11,50 – 12,10 INHIBITION OF MGMT (O(6)-METHYLGUANINE-DNA METHYLTRANSFERASE) IS
INVOLVED IN STRESS INDUCED PREMATURE SENESCENCE OF RAT AORTIC VASCULAR
SMOOTH MUSCLE CELLS
Mišúth S¹, Tumová I¹, Vavrinová-Yaghi D¹, Vavrínek P¹

¹ Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in
Bratislava, Odbojárov 10, Bratislava, Slovakia

12,10 – 12,15 Ukončenie konferencie

12,00 – 14,00 Obedňajšie prestávka

14,00 Odchod autobusu od Kongresového centra SAV Academia na ŽST Poprad

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Posterové sekcie

Rozmery posteru maximálne výška 90 cm a šírka 80 cm.

Posterová sekcia I. – nepárne/liché čísla (vyvesenie posteru: pondelok 2.10. poobede – utorok 3.10. do obeda, oficiálna časť v pondelok 2.10. v čase 17,00 – 20,00):

Posterová sekcia II. – párne/sudé čísla (vyvesenie posteru: utorok 3.10. poobede – streda 4.10. do obeda, oficiálna časť v utorok 3.10. v čase 17,20 – 19,20):

Postery:

1. Anzenbacherová et al.: INFLUENCE OF POLYPHENOLIC COMPOUNDS IN BLUEBERRY EXTRACT ON ACTIVITIES OF P450 IN RATS
2. Applová et al.: EVALUATION OF ANTIPLATELET POTENTIAL OF A SERIES OF 9-PHENYL-2,6,7-TRIHYDROXY-XANTHENE-3-ONES DERIVATIVES
3. Babiak et al.: MOLECULAR CHANGES IN ISOPRENALINE-INDUCED CARDIAC HYPERTROPHY
4. Belovičová et al.: HOW VENLAFAXINE TREATMENT AND ANIMAL MODEL OF DEPRESSION EFFECT BEHAVIOR AND NEUROGENESIS OF RAT DAMS
5. Bludovská et al.: USE OF HERBAL MEDICINES AND THE CO-USE OF CONVENTIONAL PHARMACOTHERAPY WITH HERBAL PRODUCTS IN WEST BOHEMIA. A PILOT QUESTIONNAIRE-BASED STUDY
6. Bludovský et al.: INFLUENCE OF AGGREGOMETRY ON MEDICATION IN SECONDARY PREVENTION OF ISCHEMIC STROKE IN NEUROSURGERY
7. Brázdová et al.: CLOSE DERIVATIVES OF DEXRAZOXANE AND THEIR CARDIOPROTECTIVE EFFECTS ON A MODEL OF CHRONIC ANTHRACYCLINE CARDIOTOXICITY IN RABBITS
8. Česla et al.: DEVELOPMENT OF FAST LIQUID CHROMATOGRAPHY/MASS SPECTROMETRY METHOD FOR DETERMINATION OF ACETAMINOPHEN METABOLITES
9. Dragún et al.: TRPC CHANNELS IN HUMAN HEARTS WITH DEVELOPED HEART FAILURE
10. Dudík et al.: MONITORING OF INFLAMMATORY MARKERS EXPRESSION CHANGES IN SPLEENS OF RATS WITH ADJUVANT ARTHRITIS
11. Gažová et al.: MICRORNA AS POTENTIAL BIOMARKERS IN PHYSIOLOGICALLY RESPONSE TO DIFFERENT EXERCISE TRAINING
12. Hammer et al.: EFFECTS OF CITALOPRAM ON LIPID SPECTRUM, LEPTIN SERUM LEVEL AND BODY WEIGHT IN LABORATORY MOUSE OVER TIME
13. Izakovičová Hollá et al.: PROTON PUMP INHIBITORS THERAPY AND CYP2C19 GENE VARIABILITY IN CZECH PATIENTS WITH GASTROESOPHAGEAL REFLUX DISEASE: PILOT STUDY
14. Jakubíková et al.: *CHLORELLA PYRENOIDOSA* COMPLEX: CHARACTERIZATION OF ANTI-ASTHMATIC PROFILE
15. Janoušek et al.: THE INFLUENCE OF 99MTC-LABELING ON THE BINDING AFFINITY OF ANTI-VEGFR2 HUMAN MONOCLONAL ANTIBODY RAMUCIRUMAB
16. Juránek et al.: MOLECULAR AND CELLULAR MECHANISMS UNDERLYING NEONATAL HYPOXIC-ISCHEMIC ENCEPHALOPATHY STUDIED IN NEWBORN RATS USING MULTIMODAL IMAGING

17. Juřica et al.: METABOLIC RATIOS OF LANSOPRAZOLE TO 5-HYDROXYLANSOPRAZOLE AND LANSOPRAZOLE TO LANSOPRAZOLE SULFONE FOR PREDICTION OF CYP2C19 AND CYP3A4 METABOLIC ACTIVITY
18. Kaprinay et al.: THE FUNCTION OF ENDOTHELIUM IN THE METABOLIC SYNDROME
19. Koprđová et al.: ACUTE IMPACT OF NEW PYRIDOINDOLE DERIVATIVES ON BEHAVIOR AND C-FOS EXPRESSION IN THE RAT BRAIN
20. Kováčiková et al.: STRUCTURE OPTIMIZATION OF THE MERCAPTOTRIAZINOINDOLE SCAFFOLD OF THE ALDOSE REDUCTASE INHIBITOR CEMTIRESTAT IMPROVED INHIBITORY EFFICACY AND SELECTIVITY
21. Krasulová et al.: INTERACTIONS OF ITRACONAZOLE CIS-DIASTEREOISOMERS WITH HUMAN LIVER MICROSOMAL CYTOCHROMES P450: INHIBITION OF CYP ENZYME ACTIVITIES
22. Kubíková et al.: IMMUNOMODULATORY EFFECTS OF GINGEROLS - *IN VITRO* STUDY
23. Kyselovič et al.: AUTOLOGOUS IMPLEMENTATION OF STEM CELLS IN MYOCARDIAL DURING CORONARY ARTERY BYPASS
24. Martinec et al.: COMPARISON OF DRUG-DRUG INTERACTION STUDIES USING CACO-2 CELL LINE AND PRECISION CUT INTESTINAL SLICES
25. Marušáková et al.: GHRELIN LEVELS CHANGES IN EXPERIMENTAL METABOLIC SYNDROME MODEL
26. Matušková et al.: THE INFLUENCE OF POLYUNSATURATED FATTY ACIDS AND SILYMARIN ON ABCG5/8 PROTEIN EXPRESSION IN THE RAT INTESTINE
27. Migkos et al.: CAN THE VASODILATORY EFFECT OF ISOFLAVONOIDS BE RELATED TO THEIR GUT MICROFLORAL METABOLITES?
28. Micháliková et al.: EFFECT OF SMe1EC2 ON SERUM LIPID PROFILE AND NEUROTRANSMISSION IN HIPPOCAMPUS OF RATS FED WITH HIGH-FAT-HIGH-FRUCTOSE DIET
29. Najmanová et al.: VASORELAXANT PROPERTIES OF QUERCETIN METABOLITES
30. Paprskářová et al.: LOCAL TISSUE REACTION AFTER APPLICATION OF NEWLY SYNTHESIZED HEMOSTATIC CARBOXYMETHYLCELLULOSE MATERIALS IN A RAT PARTIAL NEPHRECTOMY MODEL
31. Pažoureková et al.: THE IMPACT OF BIOLOGICAL THERAPY ON SELECTED IMMUNE CELL NUMBERS AND FUNCTIONS IN PATIENTS WITH RHEUMATOID ARTHRITIS
32. Pinček et al.: PHARMACOLOGICAL MANAGEMENT OF PATIENTS WITH CORONARY BYPASS
33. Pokorná et al.: INVESTIGATION OF ACE-I-BASED CARDIOPROTECTIVE INTERVENTION AGAINST CHRONIC ANTHRACYCLINE CARDIOTOXICITY *IN VIVO*
34. Poruba et al.: EFFECTS OF SILYMARIN AND PUFA ON IMPORTANT ENZYMES AND RECEPTORS IN LIPID HOMEOSTASIS
35. Potměšil et al.: WHAT COMBINATIONS OF AGOMELATINE WITH OTHER ANTIDEPRESSANTS COULD BE SUCCESSFUL IN THE CLINICAL PRACTICE?
36. Pourová et al.: TOX-OER – AN INTERNATIONAL MASSIVE OPEN ONLINE COURSE (MOOC) ON TOXICOLOGY
37. Prašnická et al.: IRON OVERLOAD REDUCES SYNTHESIS AND BILIARY SECRETION OF BILE ACIDS IN RATS
38. Račková et al.: SCREENING OF A NOVEL MERCAPTOTRIAZINOINDOLE ALDOSE REDUCTASE INHIBITOR IN CELLULAR MODELS OF INFLAMMATION AND OXIDATIVE STRESS
39. Raganová et al.: EVALUATION OF DRUG'S RISK IN PRENATAL PERIOD
40. Reingráberová et al.: EVALUATION OF 5-HYDROXYMETHYL-2-FURFURALDEHYDE (5-HMF) LEVELS IN BISCUITS INTENDED FOR CHILDREN CONSUMPTION

41. Rokytová et al.: THE EFFECT OF RAPAMYCIN TREATMENT ON IMMUNE RESPONSE IN THE SPLEEN OF RATS STRESSED BY REPEATED IMMOBILIZATION
42. Roušar et al.: COMPARISON OF ACETAMINOPHEN AND SALAZOPYRIN HEPATOTOXICITY IN VITRO
43. Rozkydalová et al.: COMPARISON OF IN VITRO EFFICACY OF BORTEZOMIB AND CARFILZOMIB IN A375 HUMAN MELANOMA CELL LINE
44. Sabová et al.: KINETICS OF DNA- GEMINI SURFACTANT- PHOSPHOLIPID COMPLEX FORMATION
45. Samáková et al.: BENEFIT OF EXPERIMENTAL EXERCISE PROGRAM ON THE CHANGES OF EXPRESSION MICRORNAS LEVELS IN PROSTATE CANCER PATIENTS
46. Slanař et al.: THE NEED FOR PROTOXIDIZED ANALGOSEDATION IN ASPHYXIATED NEONATES TREATED WITH THERAPEUTIC HYPOTHERMIA
47. Světlík et al.: PHARMACOKINETICS OF SUFENTANIL DURING GENERAL ANESTHESIA IN RELATION TO MDR1 POLYMORPHISM
48. Szmiecsekova et al.: ROLE OF BUTYRYLCHOLINESTERASE IN LIPID METABOLISM
49. Špičáková et al.: EVALUATION OF POSSIBLE INHIBITION OF HUMAN LIVER DRUG METABOLIZING CYTOCHROMES P450 BY CYCLIC SESQUITERPENES
50. Šušaničková et al.: ARTICHOKE LEAF EXTRACT, AS AKR1B1 INHIBITOR, INHIBITS INCREASING OF SORBITOL CONTENT IN THE LENSES UNDER HIGH GLUCOSE CONDITIONS
51. Švík et al.: EFFECT OF FLAVONOID GLYCOSIDE ROBININ ON METHOTREXATE THERAPY BY ADJUVANT ARTHRITIS IN RATS
52. Tomo et al.: DRUG CONSUMPTION MONITORING DURING PREGNANCY IN RELATION OF NEWBORNS DAMAGE
53. Urbanová et al.: COMPARISON OF THE EFFICACY OF ROFLUMILAST AND TADALAFIL ON INFLAMMATION AND AIRWAY RESPONSIVENESS IN THE MODEL OF ALLERGIC ASTHMA
54. Valášková et al.: PHARMACOLOGICAL PROFILES OF PATIENTS WITH CHRONIC LIMB ISCHEMIC DISEASE UNDERGOING AUTOLOGOUS IMPLEMENTATION OF STEM CELLS
55. Vanduchová et al.: MECHANISM OF INHIBITORY EFFECT OF STILBENOIDES ON CYTOCHROMES P450 IN HUMAN LIVER MICROSOMES
56. Vargovič et al.: RAPAMYCIN ATTENUATES PRO-INFLAMMATORY RESPONSE IN MESENTERIC ADIPOSE TISSUE OF RATS EXPOSED TO REPEATED IMMOBILIZATION STRESS
57. Vicen et al. : ENZYMATIC AND NONENZYMATIC OXYSTEROLS HAVE DIFFERENT EFFECTS ON INFLAMMATION AND ENDOGLIN EXPRESSION IN HUMAN AORTIC ENDOTHELIAL CELLS
58. Vojtko et al.: CARBON TETRACHLORIDE-INDUCED CHANGES OF RAT VASCULAR REACTIVITY FIGURED BY COMPUTATIONAL MODELING
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