



Monday - October 2, 2017

10.00 – 17.30 **REGISTRATION**

15.30 – 15.45 **Official Opening of the Conference**
Welcoming Address of the Conference President

15.45 – 16.30 **Plenary lecture**

L-01 **EXAMPLES HOW CYTOCHROME P450 STRUCTURE DETERMINES ITS STABILITY AND ABILITY TO INTERACT WITH DRUG ENANTIOMERS**

Krasulova K.¹, Anzenbacherová E.², Dvořák Z.³, Holas O.⁴, Anzenbacher P.¹

¹Department of Pharmacology and ²Department of Medical Chemistry and Biochemistry, Faculty of Medicine and Dentistry, Olomouc, ³Department of Cell Biology and Genetics, Olomouc; ⁴Department of Pharmacology and Toxicology, Faculty of Pharmacy, Charles University, Hradec Králové; Czech Republic

17.00 – 18.00 **Poster Presentations (odd numbers)**

18.00 – 20.00 **Welcome Drink and Dinner**

Tuesday - October 3, 2017

08.30 – 16.30 **REGISTRATION**

8.30 - 10.00 **Experimental Pharmacology and Toxicology I.**

Chairpersons: RNDr. M. Dubovický, CSc., prof. RNDr. P. Anzenbacher, DrSc.

L-02 **IRON DEPLETION MODULATES LIVER CHOLESTEROL METABOLISM IN RATS**

Micuda S.¹, Prasnicka A.^{1,3}, Cermanova J.¹, Lastuvkova H.¹, Hajkova J.¹, Dolezelova E.³, Chladek J.¹, Faradonbeh F.A.¹, Hroch M.², Lenicek M.⁵, Nachtigal P.³, Vitek L.⁵, Pavek P.⁴

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

L-03 SOLUBLE ENDOGLIN DECREASES PLASMA CHOLESTEROL AND BILE ACIDS LEVELS IN MICE

Dolezelova E.¹, Prasnicka A.¹, Cermanova J.², Lenicek M.³, Vitek L.³, Hyspler R.⁴, Ticha A.⁴, Lopez-Novoa J.M.⁵, Micuda S.², Nachtigal P.¹

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

L-04 EFFECTS OF VENLAFAXINE TREATMENT ON THE NEUROBEHAVIORAL DEVELOPMENT OF THE RAT OFFSPRING

Bögi E.¹, Belovičová K.^{1,2}, Csatlósóvá K.^{1,2}, Ujhazy E.¹, Mach M.¹, Dubovický M.¹

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

L-05 STEREOISOMERS OF INDOLEAMINE 2,3-DIOXYGENASE (IDO) INHIBITOR - 1-METHYL-TRYPTOPHAN IMPROVE RENAL FUNCTION IN ISCHEMIA-REPERFUSION INJURY INDEPENDENTLY ON IDO INHIBITION

Čepcová D.¹, Mišúth S.¹, Tumová I.¹, Kema I.P.², Vavrinec P.¹, Vavřincová-Yaghi D.¹

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

10.00 - 10.30 **COFFEE BREAK**

10.30 - 12.00 **Experimental Pharmacology and Toxicology II.**

Chairpersons: doc. RNDr. E. Kmoníčková, CSc., RNDr. M. Mach, PhD.

L-06 EFFECTS OF A NOVEL CARBOXYMETHYLATED MERCAPTOTRIAZINOINDOLE INHIBITOR OF ALDO-KETO REDUCTASE IN *IN VITRO* GLUCOLIPOTOXICITY MODEL FOR HIPPOCAMPAL NEURODEGENERATION

Yarayıcı S.¹, Elmazoğlu Z.¹, Yar Sağlam A.S.², Štefek M.³, Karasu C.¹

¹Cellular Stress Response & Signal Transduction Research Laboratory, Department of Medical Pharmacology, and ²Department of Medical Biology & Genetics, Gazi University, Faculty of Medicine, Ankara, Turkey; ³Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia

L-07 PROTECTIVE EFFECTS OF OLIVE POLYPHENOLS AGAINST NEUROTOXIN-INDUCED CELLULAR MODEL OF PARKINSON'S DISEASE

Elmazoğlu Z., Karasu C.

Cellular Stress Response & Signal Transduction Research Laboratory, Department of Medical Pharmacology, Gazi University, Faculty of Medicine, Ankara, Turkey

L-08 LIGAND-BASED DRUG DESIGN STRATEGY IN SEARCHING FOR NOVEL ALDOSE REDUCTASE INHIBITORS IN DATABASES OF INDOLE-1-ACETIC ACIDS

Balleková J., Šoltéssová-Prnová M., Štefek M., Májeková M.

Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia

- L-09 *IN SILICO* AND EXPERIMENTAL STUDIES ON CEMTIRESTAT, A NOVEL ALDOSE REDUCTASE INHIBITOR BASED ON CARBOXYMETHYLATED MERCAPTOTRIAZINOINDOLE SCAFFOLD

Soltesova-Prnova M., Ballekova J., Majekova M., Stefek M.

Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia

12.00 - 14.00 **LUNCH**

- 14.00 - 15.50 **Clinical Pharmacology and Toxicology**

Chairpersons: RNDr. I. Tumová, CSc., prof. MUDr. O. Slanař, PhD.

- L-10 DRUG RISK EVALUATION IN PERINATOLOGY

Křiška M.¹, Tomo I.², Raganová A.¹, Kristová V.¹, Tisonová J.¹, Laššanová M.¹

¹ Department of pharmacology and clinical Pharmacol. Faculty of Medicine; ² Department of biology and genetics Faculty of Medicine UK, Bratislava, Slovakia

- L-11 INTERNAL VALIDATION OF PHARMACOKINETIC MODELS USED WITHIN THERAPEUTIC DRUG MONITORING ROUTINES

Šíma M., Bakhouche H., Hartinger J., Cikánková T., Slanař O.

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

- L-12 THE DOSAGE REGIMEN OPTIMIZATION FOR PHENOBARBITAL IN ASPHYXIATED NEONATES TREATED WITH THERAPEUTIC HYPOTHERMIA

**Pokorná P.^{1,2,3}, Šíma M.², Posch L.¹, Slanař O.², van den Anker J.^{3,4,5},
Allegaert K.^{3,6}, Tibboel D.^{1,3}**

¹Department of Pediatrics, First Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Prague, Czech Republic; ² Institute of Pharmacology, First Faculty of Medicine, Charles University in Prague and General University Hospital in Prague, Prague 2, Czech Republic; ³ Intensive Care and Department of Pediatric Surgery, Erasmus MC - Sophia Childrens Hospital, Rotterdam, the Netherlands

- L-13 THE IMPACT OF SUFENTANIL AND MIDAZOLAM DOSING ON SAFETY AND EFFICACY OF ANALGOSEDATION DURING THERAPEUTIC HYPOTHERMIA IN ASPHYXIATED NEONATES

Hronová K.¹, Klement P.², Pokorná P.^{1,2,3}, Slanař O.¹

¹Department of Pharmacology, Charles University, Prague 2, Czech Republic; ²Clinic of Pediatrics and Adolescent Medicine, General University Hospital, Prague 2, Czech Republic; ³Intensive Care and Department of Paediatric Surgery, Erasmus MC - Sophia Children's Hospital, Rotterdam, the Netherlands, Wytemaweg 80, 3015 CN Rotterdam, the Netherlands

- L-14 ASPECTS OF HYPOLIPIDEMIC PHARMACOTHERAPY IN GERIATRIC PATIENTS
Blechová R.

Department of Human Pharmacology and Toxicology, Faculty of Pharmacy, VFU Brno, Czech Republic

15.50 - 16.20 **COFFEE BREAK**

16.20 - 17.20 **Varia**

Chairpersons: doc. Ing. P. Česla, PhD., T. Perečko, PhD.

L-15 A NEW APPROACH FOR TEACHING OF TOXICOLOGY – LARNING THROUGH OPEN EDUCATIONAL RESOURCES

Vopršalová M.¹, Pourová J.¹, Applová L.¹, Mladěnka P.¹, Morales A.I.²

¹Department of Pharmacology and Toxicology, Faculty of Pharmacy, Charles University, Hradec Králové, Czech Republic; ²Department of Physiology and Pharmacology, Faculty of Pharmacy, University of Salamanca, Salamanca, Spain

L-16 CHANGES IN SELECTED MARKERS OF OXIDATIVE AND IMMUNOLOGICAL STATUS IN ELITE ATHLETES DURING WINTER

Michaličková D.¹, Minić R.², Kotur-Stevuljević J.³, Đorđević B.⁴, Slanař O.¹

¹Institute of Pharmacology, First Medical Faculty, Charles University, Prague, Czech Republic; ²Institute of Virology, Vaccines and Sera, Torlak, Belgrade, Serbia; ³Department of Medical Biochemistry, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia; ⁴Department of Bromatology, Faculty of Pharmacy, University of Belgrade, Belgrade, Serbia

L-16 LC-MS BASED METABOLOMICS: A NEW INSIGHT INTO THE DIAGNOSTICS OF KNOWN DISEASES

Kertys M., Urbanová A., Medvedřová M., Mokřý J.

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

17.20 - 18.20 **COMMITTEE SESSIONS (SFaS SLS a ČSEFKT ČLS JEP)**

17.20 – 19.20 **POSTER PRESENTATIONS (even numbers)**

20.30 **SOCIAL EVENING**

Wednesday - October 4, 2017

08.30 - 10.30 **Experimental Pharmacology and Toxicology III.**

Chairpersons: prof. MVDr. J. Mojžiš, CSc., doc. PharmDr. P. Kollár, PhD.

L-17 SESQUITERPENE LACTONE TRILOBOLIDE: ITS ANTI-CANCER POTENTIAL AND BEHIND

Kmoníčková E.¹, Rimpelová S.², Zídek Z.³, Džubák P.⁴, Jurášek M.², Drašar P.²

¹Department of Pharmacology and Toxicology, Faculty of Medicine in Pilsen, Charles University, Pilsen, Czech Republic; ² University of Chemistry and Technology, Prague, Czech Republic; ³The Czech Academy of Sciences, Prague, Institute of Molecular and Translational Medicine, Faculty of Medicine and Dentistry, Palacky University, Olomouc; Czech Republic

- L-18 β -ESCIN AS POTENTIAL ANTI-ANGIOGENIC AGENT IN HUVECs
**Fáber L.¹, Varinská L.^{1,2}, Gál P.^{1,2}, Kello M.¹, Petrovová E.³, Balážová Ľ.⁴,
Mirossay L.¹, Mojžiš J.¹**
¹Department of Pharmacology, Faculty of Medicine, Pavol Jozef Šafárik University in Košice, Košice, Slovakia; ² Department for Biomedical Research, East-Slovak Institute of Cardiovascular Diseases, Inc., Košice, Slovakia; ³ Department of Anatomy, Histology and Physiology, University of Veterinary Medicine and Pharmacy, Košice, Slovakia; ⁴ Department of Pharmacognosy and Botany, University of Veterinary Medicine and Pharmacy, Košice, Slovakia
- L-19 ANTIPROLIFERATIVE AND PRO-APOPTOTIC EFFECT OF NOVEL SALICYLANILIDE DERIVATIVES ON HUMAN CANCER CELL LINES
Kauerová T.¹, Goněk T.², Jampílek J.³, Hafner S.⁴, Syrovets T.⁴, Kollár P.¹
¹Department of Human Pharmacology and Toxicology, Faculty of Pharmacy, University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech Republic; ²Department of Chemical Drugs, Faculty of Pharmacy, University of Veterinary and Pharmaceutical Sciences Brno, Brno, Czech Republic; ³Department of Pharmaceutical Chemistry, Faculty of Pharmacy, Comenius University, Bratislava, Slovakia; ⁴Institute of Pharmacology of Natural Products & Clinical Pharmacology, Ulm University, Ulm, Germany
- L-20 ANTIOXIDATIVE EFFECTS OF A MITOCHONDRially TARGETED ANTIOXIDANT MITOQ ON FIBROBLASTS EXPOSED TO OXIDATIVE STRESS
Valachová K., Topol'ská D., Šoltés L.
Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia
- 10.00 - 10.30 **COFFEE BREAK**
- 10.30 - 12.00 **Experimental Pharmacology and Toxicology IV.**
Chairpersons: prof. MUDr. V. Kristová, CSc., doc. RNDr. S. Fraňová, PhD.
- L-21 ENDOTHELIN SYSTEM IN MONOCROTALINE MODEL OF PULMONARY HYPERTENSION
Vetešková J., Radík M., Kmecová Z., Marušáková M., Malíková E., Vavrínek P., Vavrincová D., Klimas J., Křenek P.
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Bratislava, Slovakia
- L-22 PROTEIN EXPRESSION OF CAVEOLIN-1 IN NITRATE THERAPY IN EXPERIMENTAL MODEL OF MONOCROTALINE INDUCED PULMONARY HYPERTENSION
Kmecová Z., Malíková E., Zsigmondová B., Radík M., Vetešková J., Marušáková M., Křenek P., Klimas J.
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Bratislava, Slovakia
- L-23 DYNAMICS OF HGF SYSTEM KEY COMPONENTS IN RAT MODEL OF PULMONARY HYPERTENSION
Radík M., Kmecová Z., Vetešková J., Marušáková M., Malíková E., Dóka G., Křenek P., Klimas J.
Department of Pharmacology and Toxicology, Faculty of Pharmacy, Bratislava, Slovakia

L-24 EFFECTS OF NONSELECTIVE COX-1/COX-2 INHIBITORS AND NITRIC OXIDE SYNTHASE INHIBITORS ON VASCULAR REACTIVITY OF A. FEMORALIS IN RATS

Petrová M., Kristová V., Vojtko R.

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

L-25 INHIBITION OF MGMT (O(6)-METHYLGUANINE-DNA METHYLTRANSFERASE) IS INVOLVED IN STRESS INDUCED PREMATURE SENESENCE OF RAT AORTIC VASCULAR SMOOTH MUSCLE CELLS

Mišúth S., Tumová I., Vavrincová-Yaghi D., Vavrinec P.

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

12.10 - 12.15 **CLOSING OF THE CONFERENCE**

12.20 - 14.00 **LUNCH**

POSTER PRESENTATIONS

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 ^{99m}Tc-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. Zsigmondová *et al.*: EFFECT OF NITRATE THERAPY ON OXIDATIVE STRESS IN THE MODEL OF MONOCROTALINE INDUCED PULMONARY HYPERTENSION
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 PROTOLOGIZED ANALGOSEDATION IN ASPHYXIATED NEONATES TREATED WITH THERAPEUTIC HYPOTHERMIA
47. Světlík *et al.*: PHARMACOKINETICS OF SUFENTANIL DURING GENERAL ANESTHESIA IN RELATION TO MDR1 POLYMORPHISM
48. Szmicekova *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 STILBENOIDS 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
59. Yarayici *et al.*: TARGETING OXIDATIVE DEGENERATION BY REDOX MODULATING PHYTOCONSTITUENTS IN OSTEOARTHRITIC ARTICULAR CHONDROCYTE CULTURES
60. Zapletalová *et al.*: INFLUENCE OF CANNABIS SATIVA AND SILYBUM MARIANUM ON EXPRESSION OF CYTOCHROMES P450 AND SELECTED TRANSPORTERS IN RAT LIVER
61. Zemanová *et al.*: THE EFFECT OF DIFFERENT PHYSIOLOGICAL CONDITIONS ON THE EXPRESSION OF CYTOCHROMES P450 IN GERM-FREE MICE
62. Marušáková *et al.*: GHRELIN LEVELS CHANGES IN EXPERIMENTAL METABOLIC SYNDROME MODEL