

**Program / Programme**

**68. ČESKO-SLOVENSKÉ FARMAKOLOGICKÉ DNY**

THE 68th CZECH-SLOVAK PHARMACOLOGICAL DAYS

**Hradec Králové, Czech Republic; September 5. – 7. 9. 2018**

**PROGRAMME OVERVIEW**

**Wednesday - September 5, 2018**

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| 10:30 – 11:00 | Opening of the Conference | Main Lecture Hall |
| 11:00 – 12:00 | Keynote lectures | Main Lecture Hall |
| 12:00 – 13:30 | *Lunch, Meetings of Society Committees* | Seminar Room 1 |
| 13:30 – 15:00 | Metabolic and transport pathways and their pharmacological regulations | Main Lecture Hall |
| 15:00 – 15:30 | *Coffee Break* | Seminar Room 1 |
| 15:30 – 17:10 | Experimental pharmacology and toxicology | Main Lecture Hall |
| 17:10 – 18:10 | Poster Session I | Seminar Room 2 |

**Thursday - September 6, 2018**

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| 09:00 – 10:30 | Cardiovascular Pharmacology | Main Lecture Hall |
| 10:30 – 11:00 | *Coffee Break* | Seminar Room 1 |
| 11:00 – 12:00 | General assemblies of the members of the Societies | Main Lecture Hall / Seminar Room 2 |
| 12:00 – 13:00 | *Lunch* | Seminar Room 1 |
| 13:00 – 14:00 | Poster Session II | Seminar Room 2 |
| 14:00 – 15:30 | Parallel Session I: Young pharmacologists | Main Lecture Hall |
|  | Parallel Session II: Pharmacoeconomy | Seminar Room 2 |
| 15:30 – 16:00 | *Coffee Break* | Seminar Room 1 |
| 16:00 – 17:20 | Respiratory and CNS Pharmacology | Main Lecture Hall |
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| 19:00 – 23:30 | Social Evening, Awards, Dinner | Hotel Nové Adalbertinum |

**Friday - September 7, 2018**

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| 09:00 – 10:20 | Clinical Pharmacology I | Main Lecture Hall |
| 10:20 – 10:50 | *Coffee Break* | Seminar Room 1 |
| 10:50 – 12:10 | Clinical Pharmacology II | Main Lecture Hall |
| 12:10 – 12:30 | Closing Ceremony | Main Lecture Hall |

**SCIENTIFIC PROGRAMME**

**WEDNESDAY - SEPTEMBER 5, 2018**

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| 10:30 – 11:00 | **Opening of the Conference**  **Chairpersons:** Prof. Dr. Pavel Anzenbacher, DSc., prof. Jiří Manďák, MD, PhD, Prof. Stanislav Mičuda, MD., PhD., Prof. Dr. Soňa Fraňová, PhD. and Prof. Vladimír Palička, MD., DSc., D.h.c. |
| **11:00 – 12:00** | **Keynote lectures**  **Chairpersons:** Prof. Dr. Pavel Anzenbacher, DSc. and Prof. Petr Pávek, PharmD., PhD. |
| 11:00 – 11:30 | DIFFERENT WAYS OF REGULATION/EXPRESSION OF CYTOCHROMES P450  Dr. **Martine Daujat-Chavanieu,** PhD., and Dr. **Sabine Gerbal-Chaloin**, PhD.  INSERM U 1183, IRBM and Université de Montpellier, 34295 Montpellier, France |
| 11:30 – 12:00 | ROLE OF NUCLEAR RECEPTOR PXR IN HEPATIC GLUCOSE AND LIPID HOMEOSTASIS  Prof. **Jukka Hakkola**, MD, PhD.  Research Unit of Biomedicine, Pharmacology and Toxicology, University of Oulu, Oulu, Finland |
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| **12:00 – 13:30** | ***Lunch, Meetings of Society Committees*** |
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| **13:30 – 15:00** | **Metabolic and transport pathways and their pharmacological regulations**  **Chairpersons:** Prof. Stanislav Mičuda, MD., PhD. and Prof. František Štaud, PharmD., PhD. |
| 13:30 – 13:50 | miRNA CONTROLS PREGNANE X RECEPTOR (PXR) EXPRESSION: REGULATION OF THE METABOLISM REGULATOR  Prof. **Petr Pávek**, PharmD., PhD.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 13:50 – 14:10 | ALTERATION OF BILE ACID HOMEOSTASIS BY IRON OVERLOAD  Prof. **Stanislav Mičuda**, MD., PhD.  Department of Pharmacology, Faculty of Medicine in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 14:10 – 14:30 | ARYL HYDROCARBON RECEPTOR IN METABOLISM, CARCINOGENESIS AND DEVELOPMENT  **Jiřina Procházková**, MSc, PhD.  Department of Chemistry and Toxicology, Veterinary Research Institute, Brno, Czech Republic |
| 14:30 – 14:50 | PLACENTA – THE CENTRAL UNIT OF FETAL GROWTH AND PROGRAMMING  Prof. **František Štaud**, PharmD., PhD.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
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| 15:00 – 15:30 | *Coffee Break* |
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| **15:30 – 17:10** | **Experimental pharmacology and toxicology**  **Chairpersons:** Prof. Viera Kristová, MD., PhD. and Assoc. prof. Jaroslav Chládek, MSc., PhD. |
| 15:30 – 15:50 | EXPERIMENTAL PIGS: RELATIONSHIPS BETWEEN ELECTROGASTROGRAFIC ACTIVITY AND PLASMA LEVELS AFTER INTRAGASTRIC ADMINISTRATION OF A MODEL DRUG (NABUMETON)  Prof. Dr. **Jaroslav Květina**, DSc., D.h.c.  Second Department of Internal Medicine - Gastroenterology, Faculty of Medicine in Hradec Kralove, Charles University, University Hospital Hradec Kralove, Czech Republic |
| 15:50 – 16:10 | DESIGN AND BIOAVAILABILITY OF ABAD (17ß-HSD10) INHIBITORS FOR TREATMENT OF ALZHEIMER´S DISEASE OR OTHER MITOCHONDRIA RELATED DISEASES  Assoc. prof. **Kamil Musílek**, PharmD., PhD.  Biomedical Research Center, University Hospital Hradec Kralove, Czech Republic |
| 16:10 – 16:30 | MODERN APPROACH TO REFINE CALCULATIONS OF DIABETIC VASCULAR REACTIVITY DISORDERS AND THEIR CAPTOPRIL-INDUCED ALLEVIATIONS  **Róbert Vojtko**, MD., PhD.  Department of Pharmacology and Clinical Pharmacology, Faculty of Medicine, Comenius University in Bratislava, Slovakia |
| **Lectures of ČSEKFT award recipients** | |
| 16:30 – 16:50 | RESVERATROL MODIFIES BILIARY SECRETION OF CHOLEPHILIC COMPOUNDS IN SHAM-OPERATED AND CHOLESTATIC RATS  **Eva Doleželová**, PharmD., PhD.  Department of Biological and Medical Sciences, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 16:50 – 17:10 | SUB-CHRONIC INHALATION OF LEAD OXIDE NANOPARTICLES REVEALED THEIR BROAD DISTRIBUTION AND TISSUE-SPECIFIC SUBCELLULAR LOCALIZATION IN TARGET ORGANS.  **Jana Dumková**, MD., PhD.  Department of Histology and Embryology, Faculty of Medicine, Masaryk University, Brno, Czech Republic |
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| **17:10 – 18:10** | **Poster Session I – presentation for evaluation committee** |

**THURSDAY - SEPTEMBER 6, 2018**

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| **09:00 – 10:30** | **Cardiovascular Pharmacology**  **Chairpersons:** Prof. Tomáš Šimůnek, PharmD., PhD. and Prof. Ján Klimas, PharmD., PhD. |
| 09:00 – 09:20 | new insights into pharmacological cardioprotection in anthracycline cardiotoxicity settings  Assoc. prof. **Martin Štěrba**, PharmD., PhD.  Department of Pharmacology, Faculty of Medicine in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 09:20 – 09:40 | SOLUBLE AND MEMBRANE ENDOGLIN ROLE IN CARDIOMETABOLIC DISEASES  Assoc. prof. **Petr Nachtigal**, PharmD., PhD.  Department of Biological and Medical Sciences, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 09:40 – 10:00 | Drug-induced long QT syndrom – molecular mechanisms and clinical implications  Prof. **Ján Klimas**, PharmD., PhD.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 10:00 – 10:20 | FLAVONOIDS, THEIR METABOLITES AND PLATELETS  Assoc. prof. **Přemysl Mladěnka**, PharmD., PhD.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
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| 10:30 – 11:00 | *Coffee Break* |
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| **11:00 – 12:00** | **General assemblies of the members of the Societies** |
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| 12:00 – 13:00 | *Lunch* |
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| **13:00 – 14:00** | **Poster Session II – presentation for evaluation committee** |
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| **14:00 – 15:30** | **Parallel Session I: Young pharmacologists**  **Chairpersons:** Prof. Juraj Mokrý, MD., PhD., Prof. Ondřej Slanař, MD., PhD., and Assoc. prof. Martin Štěrba, PharmD., PhD. |
| 14:00 – 14:10 | STEREOISOMERS OF 1-METHYLTRYPTOPHAN EFFECT RENAL FIBROSIS FOLLOWING ISCHEMIA-REPERFUSION INJURY  **Diana Čepcová**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 14:10 – 14:20 | ISOFLAVONOIDS HAVE A DIRECT EFFECT ON CORONARY SMOOTH MUSCLES  **Thomas Migkos**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 14:20 – 14:30 | THE EFFECT OF COMORBIDITIES ON GENE EXPRESSION OF THE PROTEINS ASSOCIATED WITH STORE-OPERATED CALCIUM ENTRY IN HUMAN FAILING HEARTS  **Martin Dragún**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 14:30 – 14:40 | INHIBITION OF O(6)-METHYLGUANINE DNA METHYLTRANSFERASE WITH O(6)-BENZYLGUANINE INDUCES CELL SENESCENCE INDEPENDENTLY OF MAPK IN VASCULAR SMOOTH MUSCLE CELLS  **Svetozár Mišúth**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 14:40 – 14:50 | DOES MATERNAL DEPRESSION AND PRENATAL ADMINISTRATION OF VENLAFAXINE AFFECT THE MYOCARDIAL ACTIVITY OF OFFSPRING?  **Michaela Sasváriová**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 14:50 – 15:00 | PHARMACOLOGICAL INHIBITION OF VASOPRESSIN-INDUCED EXPRESSION OF ENDOTHELIN-1 IN SMOOTH MUSCLE CELL CULTURE  **Jana Vetešková**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy, Comenius University in Bratislava, Slovakia |
| 15:00 – 15:10 | EXPRESSION AND FUNCTION OF TRANSPORTERS/ENZYMES INVOLVED IN PLACENTAL METABOLISM OF TRYPTOPHAN  **Rona Karahoda**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 15:10 – 15:20 | INTERPLAY OF ABC AND SLC TRANSPORTERS IN THE TRANSPLACENTAL TRANSFER OF MARAVIROC  **Lenka Ťupová**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| 15:20 – 15:30 | MODULATION OF DAUNORUBICIN PHARMACOKINETIC DRUG RESISTANCE BY CYCLIN-DEPENDENT KINASE INHIBITORS  **Aleš Šorf**, MSc.  Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Kralove, Charles University, Hradec Kralove, Czech Republic |
| **14:00 – 15:30** | **Parallel session II: Pharmacoeconomy**  **Chairpersons:** Jana Skoupá, MD., MBA. andProf. Jan Švihovec, MD., DSc. |
| 14:00 – 14:25 | Basic health-economic principles in the context of Czech Health Technology Assessment  **Jana Skoupá**, MD., MBA  Czech Pharmaco-Economy Society |
| 14:25 – 14:50 | Application of clinical evidence and data from real life in pharmacoeconomic analyses  **Jiří Klimeš**, PharmD.  Czech Pharmaco-Economy Society |
| 14:50 – 15:15 | Modelling of expenditures and outcomes in pharmacoeconomic analyses  **Tomáš Doležal**, MD., PhD.  Institute of Health Economics and Technology Assessment o.p.s |
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| 15:30 – 16:00 | *Coffee Break* |
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| **16:00 – 17:20** | **Respiratory and CNS Pharmacology**  **Chairpersons:** Prof. Dr. Soňa Fraňová, PhD. and Assoc. prof. Jan Juřica, PharmD., PhD. |
| 16:00 – 16:20 | PHARMACOTHERAPY OF ASTHMA IN EXPERIMENTAL SITUATIONS  Prof. Dr. **Soňa Fraňová**, PhD.  Department of Pharmacology, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia |
| 16:20 – 16:40 | MODULATION OF ALLERGIC AIRWAY INFLAMMATION BY PHOSPHODIESTERASE INHIBITORS  Prof. **Juraj Mokrý**, MD., PhD.  Department of Pharmacology, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia |
| 16:40 – 17:00 | THE INFLUENCE OF ION CHANNELS ACTIVITY MODULATORS ON EXPERIMENTALLY-INDUCED ALLERGIC ASTHMA PATHOGENESIS AND SYMPTOMATOLOGY  Assoc. prof. **Martina Šutovská**, MD., PhD.  Department of Pharmacology, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia |
| 17:00 – 17:20 | OLFACTORY BULBECTOMY MODEL OF DEPRESSION IN RATS EXHIBITS ALTERED VULNERABILITY TOWARDS DRUG ADDICTION IN MODELS OF VOLUNTARY DRUG INTAKE  Assoc. prof. **Jana Rudá-Kučerová**, PharmD., PhD.  Department of Pharmacology, Faculty of Medicine, Masaryk University, Brno, Czech Republic |
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| **19:00 – 23:30** | **Social Evening, Awards & Dinner** |
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**FRIDAY - SEPTEMBER 7, 2018**

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| **09:00 – 10:20** | **Clinical Pharmacology I**  **Chairpersons:** Assoc. prof. Regina Demlová, MD., PhD., and Prof. Ondřej Slanař, MD., DSc. |
| 09:00 – 09:20 | **Lecture of ČSEKFT award recipients:**  ADHERENCE WITH PERINDOPRIL THERAPY – A PILOT STUDY USING TDM OF PERINDOPRILAT PLUS EVALUATION OF PERINDOPRILAT CLEARANCE ESTIMATION  **Martin Šíma**, PharmD., PhD.  Department of Pharmacology, First Faculty of Medicine, Charles University and General University Hospital in Prague, Czech Republic |
| 09:20 – 09:40 | NEW EDUCATIONAL TOOL FOR CLINICAL PHARMACOKINETICS TEACHING  Prof. **Ondřej Slanař**, MD., DSc.  Department of Pharmacology, First Faculty of Medicine, Charles University, Prague, Czech Republic |
| 09:40 – 10:00 | PHARMACOKINETICS OF PROPHYLACTIC ANTIBIOTICS DURING CARDIAC SURGERY USING CBP  **Jan Strojil**, MD., PhD.  Department of Pharmacology, Faculty of Medicine and Dentistry, Palacký University in Olomouc, Czech Republic |
| 10:00 – 10:20 | PUPILLOMETRY AS AN INDICATOR OF L-DOPA DOSAGES IN PARKINSON'S DISEASE PATIENTS.  **Olga Bartošová**, MD., PhD.  Department of Pharmacology, First Faculty of Medicine, Charles University, Prague, Czech Republic |
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| 10:20 – 10:50 | *Coffee Break* |
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| **10:50 – 12:10** | **Clinical Pharmacology II**  **Chairpersons:** Prof. Milan Kriška, MD., DSc. and Assoc. prof. Karel Urbánek, MD., PhD. |
| 10:50 – 11:10 | URSODEOXYCHOLIC ACID IN ONCOLOGY PATIENTS – CLINICAL EXPERIENCE  Assoc. prof. **Jan Juřica**, PharmD., PhD.  Department of Pharmacology, Faculty of Medicine, Masaryk University, Brno, Czech Republic |
| 11:10 – 11:30 | ACADEMIC CLINICAL TRIALS IN CZECH REPUBLIC  **Lenka Hořavová**, MSc.  Department of Pharmacology, Faculty of Medicine, Masaryk University, Brno, Czech Republic |
| 11:30 – 11:50 | ROLE OF ETHICAL COMMITTE IN DRUG EVALUATION PROCESSES  Prof. **Milan Kriška**, MD., DSc.  Department of Pharmacology and Clinical Pharmacology, Comenius University in Bratislava, Slovakia |
| 11:50 – 12:10 | CONTROVERSY AROUND VANCOMYCIN TARGET TO ACHIEVE OPTIMAL THERAPEUTIC EFFECT  **Hundie Tesfaye**, MD., PhD.  Department of Medical and Clinical Biochemistry, Second Faculty of Medicine, Charles University, Prague, Czech Republic |
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| **12:10 – 12:30** | **Closing Ceremony**  **Chairpersons:** Prof. Stanislav Mičuda, MD., PhD. and Prof. Petr Pávek, PharmD., PhD. |

**POSTERS**

Poster Session I – posters 1-25 – place to presentation boards since 12:15 Wednesday September 5, till 8:50 Thursday September 6

Poster Session II – posters 26-49 – place to presentation boards since 10:45 Thursday September 6, till 17:30 Thursday September 6

1. Amchova et al.:**CHARACTERISTICS OF NICOTINE TAKING AND NICOTINE SEEKING IN A RAT MODEL OF DEPRESSION**
2. Babiak et al.: RISK OF INSULIN RESISTANCE IN VISCERAL ADIPOSE TISSUE AFTER PROLONGED SUPRAPHYSIOLOGICAL TESTOSTERONE ADMINISTRATION IN MALE RATS
3. Bludovská et al.: USE OF HERBAL MEDICINES AND THE CO-USE OF CONVENTIONAL PHARMACOTHERAPY WITH HERBAL PRODUCTS IN SELECTED POPULATION GROUPS IN WEST BOHEMIA
4. Čonková et al.: *IN VITRO* SYNERGISTIC EFFECT OF ANTIMYCOTICS AND ESSENTIAL OILS AGAINST *CANDIDA ALBICANS* ISOLATES
5. Dolná et al.: EXPRESSION OF APOPTOSIS-RELATED PROTEINS BAX, BCL2 IN END-STAGE OF EXPLANTED HEART
6. Dovrtělová et al.: DIFFERENT EFFECTS OF ENDOCANNABINOID OLEAMIDE ON HUMAN AND RAT CYTOCHROME P450 ENZYMES
7. Dusek et al.: TERIFLUNOMIDE IS AN INDIRECT HUMAN CONSTITUTIVE ANDROSTANE RECEPTOR (CAR) ACTIVATOR INTERACTING WITH EPIDERMAL GROWTH FACTOR (EGF) SIGNALING
8. Dusek et al.: STEVIOL, AN AGLYCONE OF STEVIOL GLYCOSIDE SWEETENERS, INTERACTS WITH THE PREGNANE X (PXR) AND ARYL HYDROCARBON (AHR) RECEPTORS IN DETOXIFICATION REGULATION
9. Gažova et al.: INTEGRATION OF MODEL SITUATIONS INTO TEACHING GENERAL PHARMACOLOGY WITH IMPLEMENTATION THE ISTAN SIMULATOR – STATUS ASTHMATICS
10. Hadová : EXPRESSION OF HCN CHANNELS IN MODEL OF PHARMACOLOGICALLY-INDUCED TORSADES DE POINTES
11. Hammer et al.: INFLUENCE OF OLANZAPINE ON SELECTED METABOLIC PARAMETERS DEPENDING ON THE DURATION OF ADMINISTRATION AND THE DIET TYPE IN LABORATORY MICE
12. Janoušek et al.: RADIOACTIVELY LABELED RAMUCIRUMAB: *IN VITRO* BINDING AND INTERNALIZATION STUDIES IN VEGFR2 POSITIVE CELLS
13. Jourova et al.: NABUMETONE ALTERS mRNA EXPRESSION OF CYTOCHROME P450 IN THE LIVER AND IN THE INTESTINE OF GERM-FREE MICE
14. Juřica et al.: **URSODEOXYCHOLIC ACID IN ONCOLOGY PATIENTS – CLINICAL EXPERIENCE**
15. **Kassa et al.:** DOSE DEPENDENT PROPHYLACTIC EFFICACY OF 6-CHLOROTACRINE IN SOMAN-POISONED MICE
16. Kauerova et al.: NOVEL DERIVATIVES OF SALICYLAMIDES AND THEIR ANTIPROLIFERATIVE AND TOXIC EFFECTS *IN VITRO* AND *IN VIVO*
17. Kertys et al.: TARGETED METABOLOMIC ANALYSIS OF 14-DAYS MODEL OF EOSINOPHILIC AIRWAYS INFLAMMATION IN GUINEA PIGS
18. Kmecová et al.: THE IMPACT OF THE TREATMENT WITH INORGANIC NITRATES ON THE RIGHT VENTRICLE IN MONOCROTALINE-INDUCED PULMONARY HYPERTENSION
19. Krivošová et al.: MONITORING OF MDD BIOMARKERS AND ITS IMPORTANCE
20. Kurakova et al.: CHANGES OF 35 RAT HEMODYNAMIC PARAMETERS INFLUENCED BY NOREPINEPHRINE AND ACETYLCHOLINE
21. Kušnír et al.: MONITORING OF PLASMATIC CONCENTRATIONS OF ANTITUBERCULOTICS
22. Kyselovič et al.: MODEL SITUATIONS IN GENERAL PHARMACOLOGY WITH IMPLEMENTATION THE ISTAN SIMULATOR – CLINICAL CASE SITUATION - MALIGNANT HYPERTHERMIA
23. Liskova et al.: CA2+-DEPENDENT CL- CHANNELS BLOCKADE IN NOREPINEPHRINE-INDUCED CONTRACTION OF ADULT AND AGED RAT FEMORAL ARTERY
24. Mačeková et al.: COGNITIVE SCREENING IN PATIENTS WITH METABOLIC SYNDROME IN SLOVAKIA – KOGNIMET – SK
25. Marcinčáková et al.: *IN VITRO* EVALUATION OF ZINC EFFECTS USING VARIOUS CYTOTOXIC TESTS
26. Matušková et al.: EFFECT OF MICROBIOTA ON THE METABOLISM OF QUERCETIN IN HUMAN INTESTINE
27. Micháliková et al.: EFFECT OF RUTIN AND ATORVASTATIN TREATMENT ON DYSFUNCTIONS INDUCED BY METABOLIC SYNDROME-LIKE CONDITIONS
28. Pinček et al.: ANALYSING CHANGES OF SELECTED BIOMARKERS OF APOPTOSIS (BAX, BCL-2) DURING THERAPY PATIENTS WITH ATRIAL FIBRILLATION
29. Pokorná et al.: THE CONNECT4CHILDREN PROJECT (C4C): COLLABORATION IN PEDIATRIC CLINICAL PHARMACOLOGY
30. Poruba et al.: EFFECT OF FENOFIBRATE AND SILYMARIN ON P-GLYCOPROTEIN IN RATS
31. Pourová et al.: **TWO FLAVONOID METABOLITES, 3,4-DIHYDROXYPHENYLACETIC ACID AND 4-METHYLCATECHOL, RELAX RAT ARTERIES *EX VIVO***
32. Regeš et al.**:** NEONATAL HYPOXIC-ISCHEMIC ENCEPHALOPATHY – AN OVERVIEW
33. Rychtrmoc at al.: TWO INSULIN-SENSITIZING ESTOLIDE COMPOUNDS DID NOT MODULATE BIOENERGETIC PROPERTIES OF MURINE LIVER AFTER SHORT-TERM GASTRIC ADMINISTRATION
34. Sabová et al.: THE EFFECT OF PHARMACOLOGICAL INTERVENTION ON FIBROBLAST CELL EXPRESSION OF VEGF-A PROTEIN
35. Samáková et al.: CHARACTERISTICS OF BONE MARROW CELLS IN CHRONIC ISCHEMIC HEART DISEASE AND CRITICAL LIMB ISCHEMIA
36. Salvaras et al.: ANTIDEPRESSANTS AND MYOCARDIAL ISCHEMIA-REPERFUSION INJURY
37. Smutný et al.: A FEASIBILITY STUDY OF THE TOXIC RESPONSES OF HUMAN INDUCED PLURIPOTENT STEM CELL-DERIVED HEPATOCYTES TO PHYTOCHEMICALS
38. **Svoreň et al.:** FLT3 INHIBITORS - MIDOSTAURIN, GILTERITINIB AND FLX925 AND THEIR ROLE IN ABCB1 AND ABCG2 MEDIATED MULTIDRUG RESISTANCE
39. **Šíma et al.:** ESTIMATION OF CONTINUOUS VANCOMYCIN MAINTENANCE DOSE IN CRITICALLY ILL ADULT
40. Špičáková et al.: NEW POTENTIAL ANTICANCER DRUGS AND THEIR EFFECT ON HUMAN LIVER MICROSOMAL CYTOCHROMES P450
41. Trejtnar et al.: DRUG-DRUG INTERACTIONS OF LAMIVUDINE WITH DRUG OCT2 SUBSTRATES IN THE PERFUSED RAT KIDNEY
42. Váczi et al.: EFFECTIVENESS OF ANTISEPTICS AGAINST *CANDIDA ALBICANS* ISOLATES
43. Vagiannis et al.: PROTEIN KINASE INHIBITOR ALISERTIB INHIBITS ABCC1 DRUG EFFLUX TRANSPORTER AS WELL AS VARIOUS CYP450 ISOFORMS AND MODULATES PHARMACOKINETIC MULTIDRUG RESISTANCE
44. Valachová et al.: MOLECULAR HYDROGEN ACTING AS ANTIOXIDANT: VALIDATION OF RADIATION-INDUCED HEART DISEASE AND SCAVENGING *IN SITU* GENERATED HYDROXYL RADICALS
45. Valášková et al.: CLINICAL STUDY OF EFFECTIVENESS AND SAFETY OF CUCURBITA PEPO SEED EXTRACT ON STRESS URINARY INCONTINENCE IN WOMEN
46. Vanduchová et al.: HPLC METHOD FOR DETERMINATION OF CEFAZOLIN IN HUMAN PLASMA
47. Večeřa et al.: SILYMARIN POSITIVELY INFLUENCED THE EXPRESSION OF NRF2 IN RAT SUFFERING FROM METABOLIC SYNDROME
48. Vicen et al.: ENDOGLIN PLAYS IMPORTANT ROLE IN 7-KETOCHOLESTEROL INDUCED ENDOTHELIAL DYSFUNCTION IN HUMAN AORTIC ENDOTHELIAL CELLS
49. Zapletalová et al.: EFFECT OF QUINOA (CHENOPODIUM QUINOA) AND BUCKWHEAT (FAGOPYRUM) ON THE  LEVEL OF EXPRESSION OF CYTOCHROME P450 AND SELECTED TRANSPORTERS IN RAT LIVER