

CONTEMPORARY CHALLENGES in  
**TOXICOLOGY RESEARCH**  
in VISEGRAD COUNTRIES



# **TOXCON 2016**

**21<sup>st</sup> Interdisciplinary Toxicological Conference**

The High Tatras  
SLOVAKIA

Stará Lesná - Hotel Academia  
June 22–24, 2016

**Programme & Abstracts**

*Editor*

Mojmír MACH

## **ORGANISED BY**

Slovak Toxicology Society SETOX, Bratislava, Slovakia  
Institute of Experimental Pharmacology & Toxicology,  
Slovak Academy of Sciences, Bratislava, Slovakia  
Faculty of Military Health Sciences, University of Defense,  
Hradec Králové, Czech Republic

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**WEDNESDAY - June 22, 2016**

**TOXCON 2016:**  
CONTEMPORARY CHALLENGES IN TOXICOLOGY RESEARCH

12:00 – 19:00

**REGISTRATION**

15:00 – 15:30

**Official Opening of TOXCON 2016**

15:30 – 17:00

**SESSION 1: Toxicology *In Vitro*** (ESTIV sponsored)

*Chairpersons:* Helena Kandarova & Dagmar Jírová

- L-01 SAFETY EVALUATION OF NANOSILVER USING RECONSTRUCTED HUMAN GIT TISSUES  
**Kejlová K., Dvořáková M., Kašpárková V., Kašparová L., Krsek D., Jírová D.**  
*National Institute of Public Health, Šrobárova 48, 100 42 Prague 10, Czech Republic*
- L-02 SCREENING OF ENDOCRINE DISRUPTORS AND THEIR IMPACT ON HUMAN HEALTH  
**Dvořáková M., Kejlová K., Bendová H., Rucki M., Kohout P., Tomešová J., Jírová D.**  
*National Institute of Public Health, Šrobárova 48, 100 42 Prague 10, Czech Republic*
- L-03 ASSESSMENT OF THE SKIN IRRITATION OF MEDICAL DEVICES IN VITRO USING RECONSTRUCTED HUMAN TISSUE MODEL EPIDERM  
**Kandarova H., Willoughby J.A., de Jong W. H., Bachelor M.A., Letasiova S., Milasova T., Breyfogle B., de la Fonteyne L., Haishima Y., Coleman K.P.**  
*MatTek IVLSL, Bratislava, Slovakia*
- L-04 NEW OECD TG 492 FOR CLASSIFICATION AND LABELING OF CHEMICALS AND MIXTURES USING EPIOCULAR MODEL - EYE IRRITATION  
**Letasiova S., Kandarova H., d'Argembeau-Thornton L., De Luca J., Hayden P., Hunter A., Truong T., Kaluzhny Y., Klausner M.**  
*MatTek In Vitro Life Sciecn Laboratories, Bratislava, Slovakia*
- L-05 TYROSOL GLYCOSIDE SALIDROSIDE - SYNTHESIS AND SOME BIOLOGICAL CHARACTERISTICS  
**Horváthová E., Potocká E., Mastihubová M., Duraj J., Zdurienčíková M., Šulíková M., Gálová E., Ševčovičová A., Klapáková M., Cholužová D.**  
*Cancer Research Institute BMC, Slovak Academy of Sciences, Bratislava, Slovakia*

17:00 – 17:20

**COFFEE BREAK**

18:00 – 19:00

**POSTER SESSION 1 – POSTERS No. 01 – 39**

19:30

**WELCOME DRINK & DINNER****THURSDAY - June 23, 2016**

09:30 – 10:30

**SESSION 2: Cytotoxicity, Carcinogenicity & Genotoxicity***Chairpersons: Eva Horváthová & Jan Vondráček*

- L-06** EXOSOMES: NANOSIZED COMMUNICATORS  
**Zdurienčíková M., Gronesová P., Cholujová D., Horváthová E., Sedlák J.**  
*Cancer Research Institute BMC, Slovak Academy of Sciences, Dúbravská cesta 9 Bratislava, Slovakia*
- L-07** EFFECT OF FERULOYL QUERCETIN DERIVATIVES ON PANCREATIC INS-1E CELL LINE UNDER CONDITIONS OF ENDOPLASMIC RETICULUM (ER) STRESS INDUCED BY METHYLGLYOXAL  
**Viskupicova J., Heger V., Zizkova P., Rackova L., Horakova L.**  
*Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dubravska cesta 9, 845 05 Bratislava, Slovakia*
- L-08** HISTONE-MODIFYING ENZYMES AS REGULATORS OF CYP1A1 EXPRESSION AND BIOACTIVATION OF CARCINOGENS  
**Vondráček J., Zapletal O., Svobodová J., Tylichová Z., Kabátková M., Hofmanová J., Kozubík A., Neča J., Topinka J., Milcová A., Machala M.**  
*Department of Cytokinetics, Institute of Biophysics, The Czech Academy of Sciences, Brno, Czech Republic*

10:30 – 10:50

**COFFEE BREAK**

10:50 – 11:50

**SESSION 3: Occupational and Food Toxicology***Chairpersons: Daniela Pelclová & Mojmir Mach*

- L-09** MARKERS OF NUCLEIC ACIDS AND PROTEINS OXIDATION AMONG OFFICE WORKERS EXPOSED TO ENGINEERED TiO<sub>2</sub> NANOPARTICLES  
**Pelclova D., Zdimal V., Kacer P., Fenclova Z., Vlckova S., Schwarz J., Navratil T., Komarc M., Zakharov S.**  
*Charles University and GUH in Prague, First Faculty of Medicine, Department of Occupational Medicine, Prague, Czech Republic*
- L-10** IDENTIFICATION OF A NEW BIOMARKER OF EXPOSURE TO ETHYLENE OXIDE IN HUMAN URINE  
**Mráz J., Dušková Š., Hanzlíková I., Dabrowská L., Chrástěcká H., Linhart I.**  
*Centre of Occupational Health, National Institute of Public Health, Prague, Czech Republic*
- L-11** ROLE OF METABOLIC METHANOL IN NEURODEGENERATIVE PROCESSES  
**Zacharov S., Pelclova D.**  
*Department of Occupational Medicine, First Faculty of Medicine, Charles University in Prague; Toxicological Information Center, General University Hospital, Prague, Czech Republic*

## LUNCH

13:00 – 14:40

### SESSION 4: Military Toxicology

*Chairpersons: Jiří Kassa & Kamil Kuča*

- L-12 QUATERNARY AND NON-QUATERNARY OXIME REACTIVATORS IN THE TREATMENT OF OP POISONING  
**Soukup O., Jun D., Korabečný J., Musílek K., Nepovimová E., Janočková J., Kuča K.**  
*Faculty of Military Health Sciences, University of Defense, Czech Republic*
- L-13 A COMPARISON OF THE REACTIVATING, THERAPEUTIC AND NEUROPROTECTIVE EFFICACY OF TWO NEWLY DEVELOPED OXIMES (K727, K733) WITH THE OXIME K203 AND TRIMEDOXIME IN RATS AND MICE POISONED WITH TABUN  
**Kassa J., Sepsova V., Tumova M., Horova A., Musilek K., Hatlapatkova J., Zdarova Karasova J.**  
*Department of Toxicology and Military Pharmacy, Faculty of Military Health Sciences, Trebesska 1575, 500 01 Hradec Kralove, Czech Republic*
- L-14 7-METHOXYTACRINE-4-PYRIDINEALDOXIME HYBRID AS NOVEL PROPHYLACTIC AGENT WITH REACTIVATION PROPERTIES IN ORGANOPHOSPHATE INTOXICATIONS  
**Nepovimova E., Korabecny J., Soukup O., Dolezal R., Jun D., Musilek K., Malinak D., Gorecki L., Mezeiova E., Kuca K.**  
*Biomedical Research Centre, University Hospital Hradec Kralove, Hradec Kralove, Czech Republic*
- L-15 NOVEL TACRINE INHIBITORS OF ACETYLCHOLINESTERASE WITH POTENTIAL IMPLICATION AGAINST ORGANOPHOSPHOROUS POISONING  
**Korabecny J., Nepovimova E., Soukup O., Dolezal R., Jun D., Musilek K., Spilovska K., Babkova K., Malinak D., Gorecki L., Mezeiova E., Kuca K.**  
*Biomedical Research Centre, University Hospital Hradec Kralove, Sokolska 581, 500 05 Hradec Kralove, Czech Republic*
- L-16 REVEALING OF ACETYLCHOLINESTERASE INHIBITORS: SOME ANTIOXIDANTS AND ANTI-INFLAMMATORY DRUGS CAN MEET CHOLINERGIC SYSTEM  
**Pohanka M., Martinková P., Žáková J., Kostelnik A.**  
*Faculty of Military Health Sciences, University of Defence, Trebesska 1575, CZ-500 01 Hradec Kralove, Czech Republic*

14:40 – 15:00

## COFFEE BREAK

15:00 – 16:20

### SESSION 5: Metabolism of Xenobiotics

*Chairpersons: Eva Kmoníčková & Petr Hodek*

- L-17 ENDOCRINE DISRUPTORS 17ALPHA-ETHINYLESTRADIOL AND ESTRADIOL AFFECT EXPRESSION OF CYTOCHROME P450 1A1 AND GENOTOXICITY MEDIATED BY A CARCINOGENIC ENDOCRINE DISRUPTOR BENZO[a]PYRENE IN RATS *IN VIVO*  
**Bořek-Dohalská L., Klusoňová Z., Dračínská H., Cajthaml T., Stiborová M.**  
*Department of Biochemistry, Faculty of Science, Charles University in Prague, Albertov 6, 128 43 Prague 2, Czech Republic*
- L-18 EFFECT OF DIHYDROMYRICETIN ON BIOTRANSFORMATION ENZYMES  
**Bebová M., Bošťíková Z., Pávek P., Moserová M., Anzenbacherová E., Hudeček J., Stiborová M., Hodek P.**  
*Department of Biochemistry, Faculty of Science, Charles University in Prague, Hlavova 8, 128 43 Prague 2, Czech Republic*

**L-19** PHOTO-INITIATED CHEMICAL CROSS-LINKING: MAPPING OF CYTOCHROME  $b_5$  MEDIATED INTERACTIONS IN MFO SYSTEM

**Jecmen T., Ptáčková R., Dedic R., Knížek A., Hodek P., Hudeček J., Stiborová M., Šulc M.**  
*Department of Biochemistry, Faculty of Science, Charles University in Prague, CZ*

**L-20** PHARMACOLOGICAL PROPERTIES OF THAPSIGARGIN-LIKE DERIVATIVES OF TRILOBOLIDE

**Kmoníčková E., Rimpelová S., Jurášek M., Vejvodová L., Kortus Š., Dayanithi G., Zídek Z., Žižková P., Horáková L., Harmatha J., Drašar P.**  
*Institute of Pharmacology and Toxicology and Biomedical Center, Faculty of Medicine in Pilsen, Charles University in Prague, alej Svobody 76, Pilsen, Czech Republic*

16:20 – 16:40

**COFFEE BREAK**

16:40 – 18:00

**POSTER SESSION 2 – POSTERS No. 40 – 73**

18:00 – 19:00

**Annual Meeting of the Slovak Toxicology Society SETOX**

19:30

**SOCIAL EVENING**

**FRIDAY – June 24, 2016**

9:00 – 10:00

**SESSION 6: Ecotoxicology**

*Chairpersons: Marian Rucki & Lucie Plhalová*

**L-21** ECOTOXICITY OF SELECTED ANTIBIOTICS FOR ORGANISMS OF AQUATIC AND TERRESTRIAL ECOSYSTEMS

**Havelkova B., Beklova M.**

*Department of Ecology and Diseases of Game, Fish and Bees, Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences Brno, Palackeho 1946/1, CZ-612 42 Brno, Czech Republic*

**L-22** BIOINDICATORS OF WASTEWATER ECOTOXICITY

**Čárová G., Wittlingerová Z., Zimová M., Vlková A., Wittlerová M., Dvořáková M.**

*Faculty of Environmental Sciences, Czech University of Life Sciences in Prague, Kamýčká 129, Prague 6, Czech Republic*

**L-23** THE EFFECT OF PHARMACEUTICALS ON THE LETHALITY OF GENUS ARTEMIA

**Eckerová R., Toropila M., Tomko M., Toropilová D., Zigo F., Takáč L.**

*University of Veterinary medicine and Pharmacy in Košice, Department of Biology, Zoology and Radiobiology, Košice, Slovakia*

10:00 – 10:20

## COFFEE BREAK

10:20 – 11:40

### SESSION 7: Methods in Toxicology

*Chairpersons:* Michal Dubovický & Miroslav Pohanka

- L-24 EFFECT OF VENLAFAXINE AND/OR CHRONIC UNPREDICTIBLE STRESS ON BEHAVIOR AND HIPPOCAMPAL NEUROGENESIS OF RAT DAMS AND OFFSPRING  
**Melicherčíková K., Császár E., Ujhazy E., Mach M., Dubovický M.**  
*Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia*
- L-25 SMARTPHONE-BASED COLORIMETRIC DETECTION OF LOW MOLECULAR WEIGHT ANTIOXIDANTS  
**Vobornikova I., Pohanka M.**  
*Faculty of Military Health Sciences, University of Defence, Trebesska 1575, 50001 Hradec Kralove, Czech Republic*
- L-26 COLORIMETRIC GLUCOSE SENSOR BASED ON BUBBLE WRAP AND CAMERA PHONE DETECTION  
**Martinkova P., Pohanka M.**  
*University of Defense, Faculty of Military Health Sciences, Trebesska 1575, 50001 Hradec Kralove, Czech Republic*
- L-27 NEONATAL RAT BRAIN AFTER HYPOXIA-ISCHEMIA: MEMBRANE DEPOLARIZATION IN RELATION TO CYTOTOXIC EDEMA  
**Luptáková D., Hoskeri J.H., Bačiak L., Pluháček T., Havlíček V., Juránek I.**  
*Institute of Experimental Pharmacology & Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia*

11:40 – 12:00

## CLOSING OF THE CONFERENCE



## POSTER PRESENTATIONS

### CYTOTOXICITY, CARCINOGENICITY & GENOTOXICITY

- P-01 CYTOTOXIC AND APOPTOSIS-INDUCING EFFECT OF SELECTED PLANT EXTRACTS ON BREAST CANCER CELLS

**Brezovska E. and Blaskovic D.**

*Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dubravska cesta 9, Bratislava, Slovakia*

- P-02 THE SYNERGISTIC EFFECTS OF DNA-DAMAGING DRUG ELLIPTICINE WITH A HISTONE DEACETYLASE INHIBITOR VALPROATE IN NEUROBLASTOMA CELLS

**Černá T., Hraběta J., Eckschlager T., Stiborová M.**

*Department of Biochemistry, Faculty of Science, Charles University, Albertov 2020, Prague 2, Czech Republic*

- P-03 TARGETING THE REDOX-METAL-INDUCED OXIDATIVE STRESS AND ACETYLCHOLINESTERASE SYSTEM IN ALZHEIMER'S DISEASE USING MULTIFUNCTIONAL TACRINE-COUMARIN HYBRID MOLECULES

**Hamulakova S., Poprac P., Jomova K., Brezova V., Lauro P., Drostinova, L., Jun D., Sepsova V., Hrabinova M., Soukup O., Kristian P., Gazova Z., Bednarikova Z., Kuca K., Valko M.**

*Institute of Chemistry, Faculty of Science, P. J. Safarik University, SK-041 67 Kosice, Slovakia;*

- P-04 CYTOTOXICITY OF 3,6-BIS(IMIDAZOLIDINONE)ACRIDINES

**Janovec L., Kožurková M., Sabolová D., Ungvarský J., Paulíková H., Plšíková J., Vantová Z., Kristian P., Imrich J.**

*Department of Organic Chemistry, Institute of Chemistry, Faculty of Science, P.J. Šafárik University, Moyzesova 11, SK-04167 Košice, Slovakia*

- P-05 DETERMINATION OF INTRACELLULAR DISTRIBUTION OF NEW TACRINE ANALOGUES AND THEIR CYTOTOXICITY AGAINST HUMAN NEUROBLASTOMA CELLS SH-SY5Y

**Krajňáková L., Pisarcikova J., Drajna L., Labudová M., Imrich J., Paulíková H., Kožurková M.**

*Department of Biochemistry and Microbiology, Faculty of Chemical and Food Technology, Radlinského 9, 81237 Bratislava, Slovakia*

- P-06 CYTOTOXICITY OF SELECTED FLAVONOIDS MEDIATED BY INTESTINAL OATP TRANSPORTERS

**Navrátilová L., Ramos Mandíková J., Janoušek J., Trejtnar F.**

*Department of Pharmacology and Toxicology, Faculty of Pharmacy in Hradec Králové, Charles University in Prague, Hradec Králové, Czech Republic*

- P-07 STRUCTURE, DNA BINDING AND CYTOTOXIC STUDIES OF NEW SILVER (I) COMPLEXES

**Sabolová D., Vargová Z., Paulíková H., Kudláčková J.**

*Department of Biochemistry, Institute of Chemistry, P. J. Šafárik University, Moyzesova 11, 041 54 Košice, Slovakia*

- P-08 GENOTOXICITY OF WASTEWATER FROM HEALTH CARE FACILITIES

**Vlková A., Wittlingerová Z., Zimová M., Čárová G., Kejlová K., Janoušek S.**

*Faculty of Environmental Sciences, Czech University of Life Sciences Prague, Kamýcká 129, Praha 6 - Suchbátka, 165 21, Czech Republic*

### DEVELOPMENTAL TOXICOLOGY

- P-09 FETAL ASPHYXIA AS A STRONG STIMULATOR OF THE SYMPATHETIC NERVOUS SYSTEM IN THE BRAIN

**Brucknerová I., Mach M., Dubovický M., Ujházy E.**

*Neonatal Department of Intensive Medicine, Medical Faculty Comenius University in Bratislava, Children's Hospital, Bratislava, Slovakia*

- P-10 BODY WALL MICROSTRUCTURE AS AN EXPERIMENTAL MODEL FOR TERATOGENICITY TESTING  
**Hubickova Heringova, L., Manakova E., Zemanova Z.**  
*Czech Teratology Information Service, Third Faculty of Medicine, Charles University, Prague, Czech Republic*
- P-11 TERATOLOGICAL ASSESSMENT OF THE MODEL OF LATE GESTATIONAL INTERMITTENT HYPOXIA IN RATS  
**Sedláčková N., Ujházy E., Koprudová R., Mach M.**  
*Institute of Experimental Pharmacology & Toxicology, Slovak Academy of Sciences, Bratislava, Slovakia*

#### ECOTOXICOLOGY

- P-12 EVALUATION OF OXIDATIVE STRESS RESPONSES IN RAINBOW TROUT AFTER SUBCHRONIC TONALIDE EXPOSURE  
**Blahová J., Enevoá V., Plhalová L., Fiorino E., Faggio C., Franc A., Svobodová Z.**  
*Department of Animal Protection, Welfare and Behavior, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic*
- P-13 ECOLOGICAL RISK ASSESSMENT OF HEAVY METALS IN BROWN TROUT (*SALMO TRUTTA M. FARIO*) AND SEDIMENT FROM THE MILITARY TRAINING AREA BOLETICE (CZECH REPUBLIC)  
**Dvořák P., Andreji J., Mráz J., Dvořáková-Líšková Z., Klůfová R.**  
*Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, University of South Bohemia in České Budějovice, Czech Republic*
- P-14 EFFECT OF NaCl BATH ON OXIDATIVE STRESS RESPONSE OF RAINBOW TROUT AFTER TREATMENT OF PROLIFERATIVE KIDNEY DISEASE  
**Enevoá V., Blahová J., Modrá H., Palíková M., Svobodová Z.**  
*University of Veterinary and Pharmaceutical Sciences Brno, Faculty of Veterinary Hygiene and Ecology, Department of Animal Protection, Welfare and Behavior, Brno, Czech Republic*
- P-15 ECOTOXICITY ASSESSMENT OF CADMIUM USING DIFFERENT LIFE STAGES OF THE TERRESTRIAL GASTROPOD *HELIX ASPERSA ASPERSA*  
**Fojt P., Zlámálová Gargošová H.**  
*Brno University of Technology, Faculty of Chemistry, Purkyňova 118, 612 00 Brno, Czech Republic*
- P-16 ASSESSMENT OF CONTAMINATION LEVEL OF PBDES IN THE SVITAVA RIVER, SOUTH MORAVIAN REGION, CZECH REPUBLIC  
**Járová K., Kolečkářová A., Králová Z., Vávrová M.**  
*University of Veterinary and Pharmaceutical Sciences Brno, Faculty of Veterinary Hygiene and Ecology, Department of Ecology & Game, Fish and Bees Diseases, Palackého tř. 1946/1, 612 42 Brno, Czech Republic*
- P-17 THE EFFECT OF CYPERMETHRIN ON OXIDATIVE STRESS AND ANTIOXIDANT BIOMARKERS IN MARBLED CRAYFISH (*PROCAMBARUS FALLAX F. VIRGINALIS*)  
**Lidova J., Stara A., Kouba A., Velisek J.**  
*University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, Research Institute of Fish Culture and Hydrobiology, Czech Republic*
- P-18 THE RESPONSE OF THE IMMUNE SYSTEM TO THE COMBINED EXPOSURE OF FISH  
**Marková Z., Palíková M., Mareš J., Kopp R., Navrátil L., Navrátil S., Veselý T., Pokorová D., Kohoutek J., Adamovský O., Bláha L.**  
*Faculty of Veterinary Hygiene and Ecology, University of Veterinary and Pharmaceutical Sciences Brno, Palackého 1/3, 612 42 Brno, Czech Republic*
- P-19 RESPONSES OF JAPANESE QUAILS TO COMBINED EXPOSURE WITH CYANOTOXINS, NEWCASTLE VIRUS AND LEAD: METALLOTHIONEINS, ACCUMULATION AND DISTRIBUTION OF TOXINS  
**Kovacova V., Osickova J., Bandouchova H., Havelkova B., Linhart P., Piacek V., Vitula F., Pikula J.**  
*Department of Ecology and Diseases of Game, Fish and Bees, University of Veterinary and Pharmaceutical Sciences Brno, Czech Republic*

- P-20 THE EFFECTS OF ANTIDEPRESSANTS RESIDUES ON ZEBRAFISH EMBRYO  
**Plhalova L., Sehonova P., Farkova D., Vecerkova L., Svobodova Z.**  
*Department of Animal Welfare, Protection and Behaviour, University of Veterinary and Pharmaceutical Sciences Brno, Palackeho tr. 1946/1, 612 42 Brno, Czech Republic*
- P-21 BIOTRANSFORMATION OF FLUBENDAZOLE BY PLANTAIN (*PLANTAGO LANCEOLATA* L.).  
**Stuchlíková L., Pavlík F., Vaněk T., Podlipná R.**  
*Department of Biochemical Sciences, Faculty of Pharmacy in Hradec Králové, Charles University in Prague, Heyrovského 1203, 500 05 Hradec Králové, Czech Republic*
- P-22 PARTITION COEFFICIENT OF FLUORINATED COMPOUNDS - A SIGNIFICANT PARAMETER OF ENVIRONMENTAL IMPACT PREDICTION  
**Rucki M., Skrottová A., Pavloušková J., Nesměrák K.**  
*National Institute of Public Health, Prague, Czech Republic*
- P-23 THE EFFECTS OF CYPERMETHRIN ON COMMON CARP (*CYPRINUS CARPIO*)  
**Stará A., Zusková E., Velíšek J.**  
*Research Institute of Fish Culture and Hydrobiology, Faculty of Fisheries and Protection of Waters, South Bohemian Research Center of Aquaculture and Biodiversity of Hydrocenoses, University of South Bohemia in Ceske Budejovice, Czech Republic*
- P-24 EFFICIENCY OF MUNICIPAL WASTEWATER TREATMENT PLANTS IN REMOVAL OF PROGESTAGENIC ACTIVITY  
**Šauer P., Stará A., Kocour Kroupová H.**  
*University of South Bohemia in České Budějovice, Faculty of Fisheries and Protection of Waters, Zátíší 728/II, Vodňany*

#### FOOD TOXICOLOGY

- P-25 CONSEQUENCES OF HIGH FAT DIET ON THE RAT ORGANISM – ESPECIALLY THE CARDIOVASCULAR SYSTEM  
**Kaprinay B., Lipták B., Gáspárová Z., Sotníková R., Knezl V.**  
<sup>1</sup>*Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská cesta 9, Bratislava, Slovakia;*<sup>2</sup>  
*Institute of Pharmacology, Jessenius Faculty of Medicine in Martin, Malá Hora 4C 0360, Martin, Slovakia*
- P-26 SPONTANEOUS HYPERTRIGLYCERIDEMIA COMBINED WITH HIGH-FAT DIET INDUCES SYMPTOMS OF METABOLIC SYNDROME AND PREDISPOSE THE HEART TO MALIGN ARRHYTHMIAS  
**Lipták B., Knezl V., Kaprinay B., Gáspárová Z.**  
*Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Dúbravská cesta 9, 841 04 Bratislava, Slovakia*
- P-27 THE EFFECT OF AÇAÍ BERRY EXTRACT ON THE EXPRESSION OF PPARα MRNA AND CYP4A MRNA IN HYPERTRIGLYCERIDEMIC RATS  
**Matušková Z., Poruba M., Kazdová L., Večeřa R., Anzenbacher P.**  
*Department of Pharmacology, Faculty of Medicine and Dentistry, Palacký University Olomouc, Czech Republic*
- P-28 1-YEAR ORAL TOXICITY STUDY ON A GENETICALLY MODIFIED MAIZE MON810 VARIETY IN WISTAR HAN RCC RATS  
**Ondřejková J., Aláčová R., Bartušová M., Ambrušová K., Kebis A., Kovřížnych J., Kuricová M., Líšková A., Rollerová E., Szabová E., Tulinská J., Zeljenková D.**  
*Slovak Medical University in Bratislava, Slovakia*
- P-29 INHIBITORY EFFECT OF SELECTED SESQUITERPENES ON THE MAIN XENOBIOTIC-METABOLIZING ENZYMES IN LIVER *IN VITRO*.  
**Myslivečková Z., Nguyen L.T., Dimunová D., Szotáková B., Skálová L.**  
*Department of Biochemical Sciences, Faculty of Pharmacy, Charles University Hradec Králové, Czech Republic*
- P-30 INFLUENCE OF STILBENIDS ON ENZYME ACTIVITIES IN HUMAN LIVER MICROSOMAL CYTOCHROMES P450  
**Vanduchova A., Anzenbacherova E., Anzenbacher P.**  
*Department of Pharmacology, Faculty of Medicine and Dentistry, Palacký University Olomouc, Hnevotinska 3, 775 15 Olomouc, Czech Republic*

- P-31 DIVERGENT BIOLOGICAL EFFECTS OF PHENOLIC DERIVATIVES OF 6- AND 10-GINGEROLS  
**Vejvodová L., Potočová I., Soukupová V., Jirásko M., Bludovská M., Kmoníčková E., Kotyzová D.**  
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# ABSTRACTS

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