**Program**

**Pondelok, 12. júna 2023**

15:00 – 15:10 Privítanie

15:10 – 15:30 Laudatio MUDr. Radim Šrám, DrSc.

Predsedajúci: **Andrea Bábelová a Jiří Rubeš**

15:30 – 16:00 Miroslav Machala

**Sphingolipidomics of colon cancer**

16:00 – 16:30 Prestávka

16:30 – 16:50 Simona Kajabová

**Effects of complex airborne environmental mixtures on sphingolipid and eicosanoid composition in human bronchial epithelial cells**

16:50 – 17:10 Katarína Kozics

**Effect of thymol and its derivatives on colorectal cell lines in in vitro system**

17:10 – 17:30 Eva Sedlačková

**The chorioallantoic membrane (CAM) assay as a relevant *in vivo* model to study the effect of thymol on colorectal tumor progression**

17:30 – 17:50 Monika Šramková

**Risk assessment of innovative nanohydrogels developed for skin regeneration applications**

17:50 – 18:10 Lucia Bálintová

**3D skin *in vitro* model development for human skin wound healing testing**

18:10 – 19:30 Večera

19:30 – Odchod z KC Smolenice

20:00 – **Spoločenský program: Včelovina**

**Utorok, 13. júna 2023**

Predsedajúci: **Andrea Rössnerová a Miroslav Machala**

9:00 – 9:30 Andrea Ševčovičová

**Mechanisms of action of bisphenol A on eukaryotic cells**

9:30 – 9:50 Ivana Ďurovcová

**Use of the model organism *Caenorhabditis elegans* to evaluate the toxic effects of poly- and perfluoroalkyl substances**

9:50 – 10:10 Jitka Pavlíková

**Epigenetic mechanisms of the influence of early maternal care on depressive disorder in adulthood**

10:10 – 10:30 Monika Mesárošová

**Toxicity assessment of xenobiotics: A comparison of 2D and 3D *in vitro* models**

10:30 – 11:00 Prestávka

11:00 – 11:30 Pavel Rössner Jr.

**A novel *in vitro* approach to evaluate biological impacts of environmental air pollution**

11:30 – 11:50 Kateřina Hoňková

**Epigenetic alterations in genome-wide DNA methylation in newborns from air-polluted industrial locality**

11:50 – 12:10 Antonín Ambrož

**Impact of environmental pollutants to oxidative stress and antioxidant markers in mothers and newborns (Continue of the long-term research in the Czech Republic)**

12:10 – 12:20Anton Bujňák

**Chromosome aberrations in selected groups of coke oven workers**

12:20 – 13:30 Obed

Predsedajúci: **Andrea Ševčovičová a Jan Topinka**

13:30 – 13:50 Soňa Marvanová

**Neglected polycyclic aromatic sulphur heterocycles: benzo[b]naphtho[d]- thiophenes and naphthylbenzo[b]thiophenes**

13:50 – 14:10 Táňa Závodná

**Personal exposure monitoring to polycyclic aromatic hydrocarbons bound to dust particles of different size fractions**

14:10 – 14:30 Katarína Gerčáková

**Novel triorganotin compounds exert a significant cytotoxic effect on breast cancer-derived cells**

14:30 – 14:50 Michal Šelc

**The antifibrotic effect of silibinin-coated gold nanoparticles against liver fibrosis in mouse**

14:50 – 15:00 Klára Červená

**Plasma KRAS mutations as early diagnostic biomarkers for pancreatic cancer in high-risk group patients**

15:00 – 15:30 Prestávka

15:30 – 16:00 Andrea Rössnerová

**Genetic alteration profiling in women acutely exposed during the processing of dental nanocomposites**

16:00 – 16:20 Zuzana Šímová

**Transcriptome changes in humans acutely exposed to nanoparticles during dental treatment**

16:20 – 16:50 Nikoleta Vargová

**Advances in transcriptomics for cancer research: unveiling insights through single-cell sequencing**

17:00 – 18:30 **Prezentácia posterov**

18:30 – 19:30 Večera

20:00 – **Spoločenský program: Degustácia slovenských vín – malokarpatský región**

**Streda, 14. júna 2023**

Predsedajúci: **Monika Šramková a Boris Bilčík**

9:00 – 9:30 Alena Gábelová

**Residual metal nanoparticles accumulated in the body induce late toxic effects and alterations in transcriptional and miRNA landscape**

9:30 – 9:50 Michal Šíma

**The effect of metal nanoparticles on gene expression of mouse mesenchymal stem cells**

9:50 – 10:10 Barbora Svitková

**Plate reader spectroscopy as a possible substituent for atomic absorption spectroscopy in the quantification of the cellular uptake of the nanoparticles**

10:10 – 10:20 Majlinda Meta

**An avian CAM model of cervical cancer and its diagnosis and treatment using PDT**

10:20 – 10:50 Prestávka

10:50 – 11:10 Kristína Jakič

**Distribution, accumulation and biological effects of gold nanoparticles *in vivo***

11:10 – 11:30 Petra Mazancová

**Effective reduction of SARS-CoV-2 RNA levels using a tailor-made therapeutic oligonucleotide**

11:30 – 12:00 Miroslav Piršel

**DNA repair: a punishment or reward?**

12:00 – 13:30 Obed

13:45 – Poznávanie okolia (jaskyňa Driny, Záruby, individuálne prechádzky)

19:00 – Večera na nádvorí

**Štvrtok, 15. júna 2023**

Predsedajúci: **Hanka Lehocká a Pavel Rössner Jr.**

9:00 – 9:30 Pavel Vodička

**Genomic instability in adenomas and colorectal cancer progression**

9:30 – 9:50 Soňa Vodenková

**Association of mitochondrial DNA copy number and telomere length with colorectal cancer patient outcomes**

9:50 – 10:10 Michal Kroupa

**Reduced methylation of olfactory receptor genes and amplification of 6p25.1-p22.3 as specific epigenetic and genetic alterations in colorectal cancer liver metastases**

10:10 – 10:40 Prestávka

10:40 – 11:10 Jiří Rubeš

**Influence of air quality in urban agglomerations on the sperm quality of their residents**

11:10 – 11:30 Pavel Svitok

**Current possibilities for infertility treatment in oncology patients**

11:30 – 12:00 Andrea Bábelová

**Periostin – a new candidate for biomarker in CKD progression**

12:00 – 12:30 Vyhlásenie výsledkov súťaže o najlepší poster

Diskusia – voľby do predsedníctva / noví členovia

Ukončenie konferencie

12:30 – 13:45 Obed

14:00 – Odchod z KC Smolenice