**Programme**

**Monday, 12th June 2017**

**12:30 – 15:00 Registration**

**12:30 – 18:00 Displaying the Posters**

**15:20 – 15:50 *Coffee/tea***

**15:50 – 16:00 Opening ceremony**

***Chairpersons*: *Hana Lehocká, MD, PhD. & Assoc. Prof. Ľudovít Mušák, PhD.***

**16:00 – 16:20 Beáta Holečková, Katarína Šiviková, Viera Schwarzbacherová, Martina Galdíková, Ján Dianovský, Monika Drážovská, Simona Kováčová**

Assessment of genotoxic potential of selected pesticides

**16:20 – 16:40 Július Brtko, Lucia Toporová, Dana Macejová, Ľuba Hunáková, Ladislav Novotný, Janette Bobálová, Zdeněk Dvořák**

Nuclear retinoid X receptors and adverse role of their triorganotin-based agonists in organism

**16:40 – 17:00 Stanislav Kyzek, Karolína Ondriašová, Filip Uhrin, Andrea Ševčovičová, Veronika Medvecká, Anna Zahoranová, Eliška Gálová**

Potential genotoxic effect of low temperature plasma in pea seeds

**17:00 – 17:20 Katarína Kozics, Monika Mesérošová**

Cyto/genotoxic activity of some essential oils in human lung cells

**17:20 – 17:40 Dominika Mániková, Patrícia Lukáčová, Jana Rendeková, Danuša Vlasáková, Zuzana Šestáková, Pavel Arsenyan, Miroslav Chovanec**

Synthetic phenylbenzo[b]selenophenes: first glimpse on the mode of their action through yeast cells

**17:40 – 18:10 Eva Horváthová, Eliška Gálová, Andrea Ševčovičová, Martina Klapáková, Andrej Boháč, Vladimír Mastihuba, Elena Potocká, Mária Mastihubová**

Structure - activity relationship of tyrosol glycosides studied by cell-free assays and in human cells cultured *in vitro*

**18:10 – 18:40 Božena Smolková, Alena Gábelová, Monika Šramková, Katarína Kozics, Annamária Srančíková, Mária Dušinská**

Epigenetic changes induced by nanomaterials and possible impact on health

**Tuesday, 13th June 2017**

***Chairpersons*: *Mária Dušinská, PhD. & Július Brtko, DSc.***

**9:00 – 9:45 Zubair Ahmed, Richard Tuxworth and Boris Kysela**

**Nanoparticles and Brain Tumours: from Nanotoxicity to Neuroregeration**

**9:45 – 10:05 Petra Mazancová, Filip Rázga, Veronika Némethová, Igor Lacík**

Straightforward but non-trivial concept of chitosan-TPP particles

**10:05 – 10:25 Veronika Némethová, Filip Rázga, Petra Mazancová, Barbora Svitková, Andrea Bábelová, Michal Šelc, Alena Gábelová**

Nanoparticle characterization is critical for correct interpretation of biological data

**10:25 – 11:00 *Coffee/tea***

**11:00 – 11:30 Filip Rázga, Veronika Némethová**

Therapy resistance in CML: The complexity that stands behind

**11:30 – 12:00 Soňa Marvanová, Pavlína Šimečková, Pavel Kulich, Josef Mašek, František Hubatka, Miroslav Ciganek, Radim Skoupý, Jan Hovorka, Miroslav Machala**

Methods of study the behavior and fate of nanoparticles in cell cultures

**12:00 – 12:20 Monika Šramková, Katarína Kozics, Vlasta Závišová, Martina Koneracká, Alena Gábelová**

Biological effect of betulinic acid coupled to magnetite nanoparticles in colorectal cancer cell lines

**12:20 – 12:50 Michal Šelc, Naďa Gregušová, Alena Gábelová, Andrea Bábelová**

The mechanisms of action of gold and iron oxide nanoparticles for the selected types of kidney cells

**12:50 – 14:30 *Lunch***

***Chairpersons*: *Andrea Bábelová, PhD. & Jan Topinka, DSc.***

**14:30 – 15:00 Jan Topinka, Jiří Horák, František Hopan, Alena Milcová, Antonín Ambrož, Vlasta Švecová, Pavel Rossner, Kamil Krpec, Petr Kubesa**

Genotoxic potential of particulate emissions from residential solid fuel boilers: the effect of technology, fuel, and operation output

**15:00 – 15:30 Pavel Rossner, Jr., Helena Líbalová, Tereza Červená, Andrea Rossnerová, Alena Milcová, Kristýna Vrbová, Antonín Ambrož, Fatima Elzeinová**

Mechanisms of lipid peroxidation induced by polycyclic aromatic hydrocarbons and extractable organic matter from particulate matter <2.5 µm

**15:30 – 15:45 Jitka Sikorová, Táňa Brzicová, Alena Milcová, Kristýna Vrbová, Jiří Kléma, Petr Pikal, Jan Topinka and Pavel Rossner, Jr.**

Nanoparticle stability and size as important factors in nano-TiO2 toxicity in macrophage-like cells

**15:45 – 16:00 Tana Brzicova, Jitka Sikorova, Kristyna Vrbova, Jan Topinka**

Comparison of dynamic light scattering instruments in size analysis of nanoparticles

**16:00 – 16:30 *Coffee/tea***

**16:30 – 17:00 Karol Mičieta, Gustáv Murín, Eva Záhradníková, Andrea Pogányová, Jozef Dušička**

Retrospective monitoring ecogenotoxicity of environment of the Bratislava center by native of local flora

**17:00 – 17:25** **Karol Mičieta, Jozef Dušička, Gustáv Murín**

Native flora in Bratislava: monitoring of ecogenotoxicity at selected industrial sites

**17:25 – 17:40 Alexandra Rejhová, Alena Opattová, Daniel Slíva, Pavel Vodička**

Cannabidiol enhance antitumor effect of 5-FU treatment in colorectal cancer cell lines

**17:40 – 17:55 Monika Buríková, Alexandra Poturnayová, Jozef Bizík, Tibor Hianik**

Atomic force microscopy: a powerful tool for high-resolution imaging of breast cancer cells

**Wednesday, 14th June 2017**

***Chairpersons*: *Monika Šramková, PhD. & Boris Kysela, PhD.***

**8:30 – 9:15 Mária Dušinská, Alena Gábelová, Naouale El Yamani, Elisabeth Elje, Elise Rundén-Pran**

Small, Smart and Safe (3S) Nanoparticles: How to address their Risk Assessment with in vitro (3R) Approaches

**9:15 – 9:35 Alena Gábelová, Katarína Kozics, Monika Šramková, Annamária Srančíková, Božena Smolková**

A multimodular high throughput screening platform for nano-safety assessment

**9:35 – 9:55 Annamária Srančíková, Monika Šramková, Katarína Kozics, Božena Smolková, Alena Gábelová**

Searching for appropriate in vitro kidney model to measure drug-induced toxicity

**9:55 – 10:25 Miroslav Machala, Lenka Pálková, Simona Strapáčová, Kateřina Pěnčíková, Jiří Neča, Jana Schmuczerová, Jan Topinka, Zdeněk Dvořák, Jan Vondráček**

Polycyclic aromatic hydrocarbons with molecular weight 302

**10:25 – 11:00 *Coffee/tea***

**11:00 – 11:30 Miroslava Šarlinová, Martina Krutáková, Anton Dzian, Tatiana Matáková, Ľudovít Mušák, Marián Grendár, Erika Halašová**

Use of microRNA in Lung Carcinoma Diagnosis

**11:30 – 12:00 Alexandra Poturnayová, Monika Buríková, Jozef Bizík, Andreas Ebner, Michael Leitner, Tibor Hianik**

Molecular recognition of PTK7 receptors on leukemic T-cells using DNA aptamers

**12:00 – 12:20 Andrea Bábelová, Martina Baliová, Wasiliki Tsalastra, Liliana Schaefer**

Decorin-mediated regulation of fibrillin-1 is necessary for renal tissue preservation during obstruction-induced injury

**12:20 *Lunch***

**13:30 *SOCIAL PROGRAMME***

**17:00 – 19:00 Poster discussion**

Coffee/tea

**Thursday, 15th June 2017**

***Chairpersons*: *Eva Horváthová, PhD. & Pavel Rössner Jr., PhD.***

**9:00 – 9:45 Andrew Collins**

**The comet assay in human biomonitoring: COST Action hCOMET**

**9:45 – 10:15 Andrea Rossnerova, Tereza Cervena, Pavel Rossner Jr.**

Challenges for micronucleus assay in genetic toxicology

**10:15 – 10:45 Ľudovít Mušák, Martin Petráš, Miroslava Šarlinová, Jela Valachová, Oto Osina, Erika Halašová**

Level of heavy toxic metals, selected biochemical parameters and chromosomal aberrations in welders

**10:45 – 11:15 *Coffee Break***

**11:15 – 11:45 Hana Lehocká, Ivona Závacká, Jana Vavrošová, Vladimír Janout**

The results of interconnection of the evidence of professional exposure to genotoxic factors (regex)and cancer registry in the Czech Republic

**11:45 – 12:05 Antonín Ambrož, Veronika Vlková, Pavel Rössner, Jr, Andrea Rössnerová, Vlasta Švecová, Miloš Velemínský, Jr and Radim J. Šrám**

Impact of air pollution to oxidative DNA damage and lipid peroxidation of mothers and newborns

**12:05 – 12:25 Kateřina Honková, Andrea Rössnerová, Jitka Pavlíková, Hans Gmuender, Vlasta Švecová, Jana Pulkrabová, Jana Hajslová, Miloš Veleminský, Radim J. Šrám**

Analysis of gene expression profile of newborns from districts with different level of air pollution

**12:25 – 12:30 Closing ceremony**