

Programme

Monday, 15th June 2015

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. & Miroslav Machala, PhD.*

16:00 – 16:35 **Július Brtko, Lucia Toporová, Lucia Bialešová, Dana Macejová**
Triorganotin compounds - environmental contaminants cause their endocrine disruption by binding to retinoid X inducible transcription factors (L1)

16:35 – 16:55 **Lucia Toporová, Dana Macejová, Július Brtko**
Binding characteristics of nuclear retinoid X receptors in rat liver: Effect of selected triorganotin compounds (L2)

16:55 – 17:30 **Ivan Čavarga, Ľubomír Malíček, Anton Mateašík, Dušan Poruban, Peter Mlkvý**
Reflectance and fluorescence imaging in endoscopy (L3)

17:30 – 17:55 **Katarína Kozics, Jana Harsányiová**
Photoprotective effect of essential oil *Lavandula angustifolia* (L4)

17:55 – 18:15 **Mária Bučková, Andrea Puškárová, Katarína Kozics, Lucia Kraková, Domenico Pangallo**
Preliminary *in vitro* studies to investigate antimicrobial and cyto/genotoxic activity of some essential oils (L5)

18:30 ***Welcome drink***

19:00 ***Dinner***



Tuesday, 16th June 2015

Chairpersons: *Ludmila Vodičková, MD, PhD. & Július Brtko, DSc.*

- 9:00 – 9:35** Pavel Vodička, Ľudovít Mušák, Ľudmila Vodičková, Mária Dušinská, Christofer Frank, Soňa Vodenková, Veronika Vymetáľková, Zdena Polívková, Hana Demová, Miloslav Ambruš, Rajiv Kumar, Kari Hemminki
Chromosomal damage as markers of genotoxic effect and carcinogenesis (L6)
- 9:35 – 10:00** Ľudovít Mušák, Oto Osina, Erika Halašová, Tomáš Vasičko, Jela Valachová
The health status of workers occupationally exposed to lead (L7)
- 10:00 – 10:20** Dagmar Gajdošová, Andrej Gajdoš
The level of chromosomal aberrations in professionally exposed workers and in environment in Eastern Slovakia (L8)
- 10:20 – 10:50** *Coffee/tea*
- 10:50 – 11:25** Jan Topinka, Pavel Rössner, Alena Milcová, Jana Schmuczerová, Michael Fenkl, Martin Pechout, Vlasta Švecová, Jitka Štolcpartová, Michal Vojtisek-Lom
Genotoxicity of diesel emissions in real world driving: Effects of cold starts, congestion, and DPF (L9)
- 11:25 – 12:00** Pavel Rössner, Jr., Božena Novotná, Karolina Turnovcová, Michal Babic, Miroslav Veverka, Vit Herynek, Pavel Zvatora, Eva Sykova, Pavla Jendelova
Biological effects of iron oxide nanoparticles in human and rat stem cells (L10)
- 12:00 – 12:20** Barbora Buliaková, Elise Rundén-Pran, Mária Dušinská, Annamária Srančíková, Alena Gábelová
Salvia officinalis extract enhances the adhesion of surface-modified magnetite nanoparticles onto the cell membrane (L11)
- 12:20 – 12:45** Andrea Rössnerová, Katerina Honkova, Zuzana Freitinger Skalicka, Renata Havrankova, Radim J. Sram, Friedo Zölzer
Factors affecting the frequency and types of micronuclei in elderly population from Southern Bohemia (L12)

12:45 – 14:15

Lunch

Chairpersons:

Assoc. Prof. Erika Halašová, PhD. & Jan Topinka, DSc.

14:15 – 14:50

Ludmila Vodičková, Vodička Pavel, Maura Carrai, Jana Slyšková, Sona Vodenkova, Katerina Jiraskova, Alexandra Rejhova, Veronika Vymetalkova, Riccardo Flamini, Mirko De Rosso, Antonio Dalla Vedova, Luigi Bavaresco

Taste perception and oxidative DNA damage in healthy subjects and cancer patients (L13)

14:50 – 15:10

Petronela Imreova, Eliska Galova, Andrea Sevcovicova, Ivan Chalupa, Stanislav Kyzek, Eva Miadokova

Detection of the potential genotoxic effects of the *Hypericum perforatum* L. bioactive substances (L14)

15:10 – 15:30

Monika Buríková, Mariana Máčajová, Boris Bilčík, Jozef Bízik, Anton Mateašík, Ivan Čavarga

Hypericin-LDL based photodynamic diagnosis of TE1 squamous cell carcinoma using Japanese quail CAM model (L15)

15:30 – 16:05

Hana Lehocká, Júlia Marečková

The end of applied genetic toxicology in Bohemia (and Moravia)? (L16)

16:05 – 16:35

Coffee/tea

16:35 – 17:10

Miroslav Machala, Miroslav Ciganek, Kateřina Pěňčíková, Jiří Neča, Simona Strapáčová, Alena Milcová, Jan Hovorka, Jan Topinka, Jan Vondráček

Dioxin-like activities of complex mixtures extracted and fractionated from diesel exhaust and airborne particles. Identification of major contributors to toxicity (L17)

17:10 – 17:35

Monika Šramková, Andrius Masedunskas, Roberto Weigert

Intravital two photon microscopy: expression of plasmid DNA in the salivary gland epithelium and imaging in live animals (L18)

17:35 – 17:55

Michal Šelc, Eva Sedlačková, Alena Gábelová

Synergetic effect of UVA radiation and chemical carcinogens on activation of ERK1/2, p38, JNK/SAPK and NF-κB pathways (L19)

18:20 - 20:00

Dinner

20:00 **Slovak wine degustation**

Wednesday, 17th June 2015

Chairpersons: *Prof. Kateřina Malachová, PhD. & Pavel Vodička, MD, PhD.*

9:00 – 9:35 **Zuzana Šestáková, Ján Gurský, Dana Cholužová, Ivan Chalupa, Miroslav Piršel**

Complex UV-sensitivity of NER-deficient mutants (L20)

9:35 – 9:55 **Jana Rendeková, Thomas A. Ward, Miroslav Chovanec, Peter McHugh**

Rad1/Rad10 is a candidate for incision during DNA interstrand crosslink repair in *Saccharomyces cerevisiae* (L21)

9:55 – 10:15 **Kristína Stanová, Zuzana Grmanová, Zuzana Slezáková, Dana Vigašová, Miroslav Chovanec, Lumír Krejčí**

Post-translational modifications and their role in the regulation of the ligation step of non-homologous end joining (L22)

10:15 – 10:45 **Coffee/tea**

POSTER SESSION (5 min. + 5 min. discussion)

Chairpersons: *Andrea Rössnerová, PhD. & Assoc. Prof. Ľudovít Mušák, PhD.*

10:45 – 10:55 **Andrej Gajdoš, Daqmar Gajdošová**

Occurrence of cancer and life style (P1)

10:55 – 11:05 **Erika Halašová, Tatiana Matáková, Ľudovít Mušák, Mirko Halaša, Anton Dzian, Julián Hamžík, Mária Škereňová, Oto Osina**

Selected DNA Repair Genes and Lung Cancer Development in Chromium Exposed Individuals (P2)

11:05 – 11:15 **Erika Halašová, Tatiana Matáková, Ľudovít Mušák, Mirko Halaša, Anton Dzian, Silvia Javorkova, Karol Javorka, Oto Osina**

Effect of Chromium Exposure on Lung Cancer Development and Incidence (P3)

11:15 – 11:25 **Martina Melušová, Zuzana Barbieriková, Miroslav Pánik, Vlasta Brezová, Soňa Jantová**

Pro-apoptotic and genotoxic effects of new 4-anilinoquinazoline derivative on leukemia cells (P4)

11:25 – 11:35

Zuzana Jaskóová, Kateřina Malachová

Detection of DNA damage induced by metal nanoparticles/kaolinite composites in A549 lung cells (P5)

11:35 – 11:45

Alena Milcová, Michaela Pokorná, Miroslav Ciganek, Jiří Neča, Kateřina Pěňčíková, Pavel Mikuška, Pavel Rossner, Kamil Křůmal, Zbyněk Večeřa, Miroslav Machala, Jan Topinka

Detailed characterisation and toxicity of organic extracts from PM2.5 collected in polluted city of Ostrava: the effect of meteorological conditions (P6)

11:45 – 11:55

Jitka Štolcpartová, Michal Vojtisek-Lom, Martin Pechout, Luboš Dittrich, Vít Beranek, Martin Kotek, Jaroslav Schwarz, Petr Vodička, Alena Milcová, Andera Rössnerova, Antonín Ambrož, Jan Topinka

Genotoxicity of exhaust emissions from a diesel engine during extended low-load operation on diesel and biodiesel fuels (P7)

12:05

Lunch

13:30

SOCIAL PROGRAMME

1. The limestone cave “DRINY”

Around 1 h walking tour through the forest. The Driny cave is the greatest attraction of the Smolenice karst and is the only karst formation in the Low Carpathian Mountains. Moreover, it is the only cave in Slovakia that originated as a result of cleavage. As opposed to the caves with oval-shaped galleries and underground water flows, this cave has the galleries shaped by fissures in the rocky massif. Individual passageways are perpendicular to each other and display a rich stalactites and stalagmites of different heights and colors. Over 550 meters of artificially illuminated corridors are open to visitors practically all year round. The visit to this cave takes 35 minutes. Walking distance from the cave to the Smolenice Castle is about 1 hour. Those who wish to visit the Driny cave bring a sweater, pullover or light jacket and tracking shoe. The middle temperature in the cave is 8 °C, the air humidity is about 97%.

Admissions: 15:00 or/and 16:00

Admission fee: 6,00 Eur



2. Smolenice Castle – Havrania skala – Havranica – Zaruby (highest peak in Low Carpathian) - Diablov žlab – Občasný vodopád – dolina Hlboča – Smolenice Castle.

This is half day guided tour. Those who wish to join us in hiking trip bring with you the tracking shoes, some light jacket (or raincoat) and a backpack to take with you some mineral water, food, fruits, etc. Please, do not underestimate Low Carpathians Mountains. This hiking tour is not for participants with a weak fitness. Part of the route is not marked out.

Individual walking tours

3. Dolina Hlboče
4. Havrania skala
5. Molpír hradisko
6. Záruby



17:00 – 19:00 **Poster discussion**
Coffee/tea

19:30 ***Conference Dinner – Barbecue***

Thursday, 18th June 2015

Chairpersons: *Dr. Dagmar Gajdošová & Pavel Rössner Jr., PhD.*

- 9:00 – 9:35** **Gustáv Murín, Karol Mičieta**
Enhancement of DNA repair by method of “**storage effect**” with a rejuvenation effect (L23)
- 9:35 – 9:55** **Eva Zahradníková, Jozef Dušička, Karol Mičieta**
Genomic diversity of modular organisms in relation to the genotoxic load of the environment (L24)
- 9:55 – 10:30** **Miroslava Kretova, Ludmila Sabova, Zdenek Hodny, Jiri Bartek, Gabriel Kollarovic, Buck D. Nelson, Sona Hubackova, Katarina Luciakova**
TGF- β /NF1/Smad4-mediated suppression of ANT2 contributes to oxidative stress in cellular senescence (L25)
- 10:30 – 11:00** ***Coffee Break***
- 11:00 – 11:35** **Andrea Bábelová, Livia de Lucca Camargo, Lucia Rossetti Lopes, Ralf P. Brandes**
Endo-PDI is involved in regulation of endothelial angiogenic function (L26)
- 11:35 – 12:00** **Eva Horváthová, Katarína Kozics, Martina Melušová, Eliška Gálová, Andrea Ševčovičová, Darina Slameňová**
Effects of *Rosmarinus officinalis* and *Lavandula angustifolia* extracts in cellular and cell-free biosystems (L27)
- 12:00 – 12:20** **Annamária Srančíková, Eva Horváthová, Katarína Kozics**
Antioxidant properties of phenolic compound-rich extracts from rosemary (*Rosmarinus officinalis*) in response to oxidative stress (L28)
- 12:20 – 12:30** **Closing ceremony**
- 12:30 – 13:30** ***Lunch***
- 14:00 –** **Bus departure**

