

FUTURE DIRECTIONS IN TOXICOLOGY

Symposium of the Estonian and Finnish Societies of Toxicology

24-25.5.2022, Hotel Viru, conference room Bolero, Tallinn, Estonia

Tuesday 24th of May

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| 12:00 - 12:30 | <i>Registration, coffee</i> | |
| 12:30 - 12:40 | Villem Aruoja , ETS; Greta Waissi , STY | Welcome |
| 12:40 - 13:20 | Keynote: Jaanus Harro , University of Tartu | Sola dosis facit venenum ... But the personality? |
| | <u>Session I - Biomonitoring</u> | Chairs: Angela Ivask , Selma Mahiout |
| 13:20 - 13:50 | Panu Rantakokko , Finnish Institute for Health and Welfare | Biomonitoring in environmental health – single compounds, compounds groups and diverse mixtures |
| 13:50 - 14:20 | Tiina Santonen , Finnish Institute of Occupational Health | Biomonitoring in occupational toxicology |
| 14:20 - 14:50 | Hans Orru , University of Tartu | Biomonitoring in Estonia - previous experiences and future perspectives |
| 14:50 - 15:15 | <i>Coffee break</i> | |
| | <u>Session II - In silico toxicology/integrated approaches</u> | Chairs: Villem Aruoja , |
| 15:15 - 15:45 | Dario Greco , University of Tampere | Toxicogenomics and Integrated Approaches to Testing and Assessment |
| 15:45 - 16:15 | Uko Maran , University of Tartu | Computational approaches for modelling ToxCast™/Tox21 androgen receptor activity data |
| 16:15 - 16:45 | Ilona Kareinen , Orion | Early in silico based target safety evaluation in drug discovery |
| 16:45 - 17:15 | Rami El Dairi , Finnish Environment Institute | The harmful effects of anthropogenic underwater noise in the Finnish sea area - BIODIVERSEA |
| 17:15 - 18:30 | <i>Break</i> | |
| 18:03 - 19:00 | Gathering in the Seaplane Harbour, Vesilennuki 6, Tallinn | |
| 19:00 - 19:30 | Tour of the Seaplane harbour | |
| 19:30 - 21:30 | <i>Dinner</i> | |

Wednesday 25th of May



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| 9:00 - 9:15 | <i>Registration</i> | |
| 9:15 - 9:55 | Keynote: Tambet Teesalu , University of Tartu | Tumor homing peptides for systemic targeting of drugs and nanoparticles |
| | <u>Session III - Nanotoxicology / Emerging toxicants</u> | Chairs: Greta Waissi, Anne Kahru |
| 10:00 - 10:25 | Margit Heinlaan , Nat. Inst. of Chemical Physics and Biophysics, Tallinn | Microplastics and beyond |
| 10:25 - 10:55 | Angela Ivask , University of Tartu | Potential environmental hazards of antimicrobial compounds |
| 10:55 - 11:15 | <i>Coffee break</i> | |
| | | Chairs: Mailis Laht, Rami El Dairi |
| 11:15 - 11:45 | Anne Kahru , Nat. Inst. of Chemical Physics and Biophysics, Tallinn | New challenges for ecotoxicology due to COVID-19 outbreak: focus on metal-based antimicrobials and single-use plastics |
| 11:45 - 12:15 | Paula Vanninen , Verifin, University of Helsinki | Sea-dumped chemical weapons pose a risk to the Baltic sea ecosystem - chemical research at VERIFIN |
| 12:15 - 13:15 | <i>Lunch on site</i> | |
| | <u>Student session</u> | |
| 13:15 - 13:27 | Essi Järvelä , University of Eastern Finland | The effects of micro-sized polyethylene on human intestinal cells. |
| 13:27 - 13:39 | Mare Oja , University of Tartu | pH profiles for effective membrane permeability of drug substances |
| 13:39 - 13:51 | Taija Voutilainen , University of Eastern Finland | A woman is known by the company she keeps: The effect of pregnancy to parents' alcohol use and smoking |
| 13:51 - 14:03 | Mikko Herrala , University of Eastern Finland | In vitro toxicity studies of bio-based colourants |
| 14:03 - 14:15 | TBA | |
| 14:15 - 15:15 | Keynote: David Dorman , North Carolina State University | 21st Century Science in Chemical Risk Assessment |
| 15:15 - 15:20 | Villem Aruoja , ETS; Greta Waissi , STY | Closing remarks |
| 15:20 - 16:00 | <i>Break</i> | |
| 16:00 - 17:00 | Old town tour | |

Organizing committee:

Greta Waissi FST (chair)
Marjo Pusenius FST
Villem Aruoja EST (chair)
Angela Ivask EST
Anne Kahru EST
Arvo Tuvikene EST