

Institute of Molecular and Cell Biology & Institute of Genomics

Annual Conference 2023

Riia 23b/2 lecture hall 105

PROGRAMME

Thursday January 11th, 2024

09:10 – 09:30 **Opening of the conference:** Director of the IMCB Prof. **Maia Kivisaar**, Deputy Director of the EGC Prof. **Lili Milani**

Morning Session

09:30 – 10:00 **Invited speaker 1:** Prof. **Leho Tedersoo** (Institute of Ecology and Earth Sciences, University of Tartu)
“Molecular methods in global fungal research”

10:00 – 10:20 4th-yr PhD student **Hanna Maria Kariis** (IG)
“Investigating the genetic liability of side effects leading to the discontinuation of antidepressants”

10:20 – 10:40 2nd-yr PhD student **Kateryna Pantiukh** (IG)
“EstMB MAGs Database: Unveiling the Metagenomic Landscape of the Estonian Population through Metagenome-Assembled Genomes”

10:40 – 11:00 Coffee Break

11:00 – 11:30 Research Fellow **Nele Taba** (IG)
“A novel framework for assessing causal effect of microbiome on health: long-term antibiotic usage as an instrument”

11:30 – 12:00 **2-min Flash Talks (odd numbers)**

12:00 – 12:40 **Poster Session (odd numbers)**

12:40 – 14:00 Lunch Break

Afternoon Session

- 14:00 – 14:30 **Invited speaker 2:** Associate Prof. **Arvi Jõers** (Institute of Technology, University of Tartu)
“Taming the wt *E. coli* for protein production”
- 14:30 – 14:50 2nd-yr PhD student **Kai Tätte** (IG)
“From the Aborigenes of Taiwan to the Populations in the Marquesas Archipelago in the Context of the Austronesian Expansion”
- 14:50 – 15:10 2nd-yr PhD student **Surabhi Mahajan** (IMCB)
“Influence of pH on the Catalytic Efficiency of LPMO”
- 15:10 – 15:30 Coffee Break**
- 15:30 – 15:50 2nd-yr PhD student **Miriam Nurm** (IG)
“Wilson’s disease in the Estonian Biobank cohort”
- 15:50 – 16:10 4th-yr PhD student **Baris Yasar** (IMCB)
“Evidence for the transcription of PRD-like homeobox genes and the ability of TPRX3 in activating noncoding-RNA in bovine preimplantation development”
- 16:10 – 16:40 Research Fellow **Margus Leppik** (IMCB)
“Impact of rRNA modifications in the ribosomal peptidyl transferase center region on the functionality of budding yeast ribosome”

Friday January 12th, 2024

Morning Session

- 09:30 – 10:00 **Invited speaker 3:** Prof. **Tuul Sepp** (Institute of Ecology and Earth Sciences, University of Tartu)
“Wild animals as a treasure trove for a better understanding of cancer”
- 10:00 – 10:20 2nd-yr PhD student **Lea Ets** (IMCB)
“Mechanisms affecting fluoride tolerance in soil bacteria *Pseudomonas putida*”

10:20 – 10:40 2nd-yr PhD student **Harleen Kaur** (IMCB)
“**Unveiling the true efficacy of antimicrobial surfaces in application-relevant and real-life use**”

10:40 – 11:00 Coffee Break

11:00 – 11:30 **Invited speaker 4:** Dr **Sille Remm** (Institute of Medical Microbiology, University of Zurich)
“**Structural basis for triacylglyceride extraction from mycobacterial inner membrane by MFS transporter Rv1410**”

11:30 – 12:00 **2-min Flash Talks (even numbers)**

12:00 – 12:40 **Poster Session (even numbers)**

12:40 – 14:00 Lunch Break

Afternoon Session

14:00 – 14:30 **Invited speaker 5:** Research Fellow **Kairi Raime** (Competence Centre on Health Technologies)
“**Honey DNA metagenomic analysis: to identify composition, authenticity and origin**”

14:30 – 14:50 2nd-yr PhD student **Triinu Ojalo** (IG)
“**Predictive role of Alzheimer’s Disease Polygenic Risk Score in Identifying Depression as a Prodromal Marker for Dementia: Insights from the Estonian Biobank Cohort**”

14:50 – 15:10 2nd-yr PhD student **Jéssica Figuerêdo Campos De Jesus** (IG)
“**A map of genetic and phenotypic associations across male reproductive phenotypes**”

15:10 – 15:30 Coffee Break

15:30 – 15:50 2nd-yr PhD student **Jaan Vihalemm** (IMCB)
“**Bioleaching of high-value metals and critical raw materials from waste materials and low-grade ores**”

15:50 – 16:10 2nd-yr PhD student **Johanna Hendrikson** (IMCB)
“**Transcriptional regulation of gacS-gene**”

- 16:10 – 16:40 Associate Prof. **Uku Vainik** (IG)
“Mapping brain-personality associations with genetic correlation reveals high degree of polylocalisation”
- 16:40 – 17:00 Ending of the conference, closing remarks and **the award ceremony**

Flash Talks & Poster numbers

Session 1 (odd numbers) – Thursday 11th – 11:30–12:40

- 1 – Rita Kreevan (4th-yr PhD student, IG)
- 3 – Stefania Sasso (4th-yr PhD student, IG)
- 5 – Arun Kuman Devarajan (4th-yr PhD student, IMCB)
- 7 – Robin Sarv (Undergraduate, IMCB)
- 9 – Siim Kurvits (3rd-yr PhD student, IG)
- 11 – Piret Hirv (3rd-yr PhD student, IG)
- 13 – Ermo Leuska (3rd-yr PhD student, IMCB)
- 15 – Ivan Kuznetsov (2nd-yr PhD student, IG)
- 17 – Jose Rodrigo Flores Espinosa (1st-yr PhD student, IG)
- 19 – Galadriel Lucia Velazquez Silva (1st-yr PhD student, IG)
- 21 – Triinu Varvas (1st-yr PhD student, IG)
- 23 – Jelisaveta Džigurski (1st-yr PhD student, IG)
- 25 – Darja Vastšjonok (1st-yr PhD student, IMCB)

Session 2 (even numbers) – Friday 12th – 11:30–12:40

- 2 – Danat Yermakovich (4th-yr PhD student, IG)
- 4 – Anette Kalnapenkis (4th-yr PhD student, IG)
- 6 – Karl Jürgenstein (4th-yr PhD student, IMCB)
- 8 – Biancamaria Bonucci (3rd-yr PhD student, IG)
- 10 – Kadri Irdt (3rd-yr PhD student, IG)
- 12 – Tarmo Puurand (3rd-yr PhD student, IMCB)
- 14 – Kerli Ilves (2nd-yr PhD student, IG)
- 16 – Hanna Antson (3rd-yr PhD student, IMCB)
- 18 – Annabel Klemets (1st-yr PhD student, IG)
- 20 – Kanwal Batool (1st-yr PhD student, IG)
- 22 – Erkin Alacamli (1st-yr PhD student, IG)
- 24 – Valentina Rukins (1st-yr PhD student, IG)
- 26 – Madli Tamm (1st-yr PhD student, IG)