

Institute of Molecular and Cell Biology, and Estonian Genome Center
Estonian Biocentre

Annual Conference 2017

PROGRAM

Monday December 11th 2017

9.15-9.30 Opening of the conference: Director of the IMCB **Prof. Toivo Maimets**,
Director of EGC **Prof. Andres Metspalu**, Director of EBC **Dr. Mait
Metspalu**

Morning session

9.30-9.50 **Lehti Saag** “Demographic processes in Estonia during Bronze Age and Iron Age”

9.50-10.10 **Mario Reiman** “Temporal dynamics of placental gene expression”

10.10-10.30 **Antti Matvere** “The studies on aryl hydrocarbon receptor expression mechanisms in murine granulosa cells”

10.30-11.00 Coffee break

11.00-11.20 **Maris Alver** “Systematic characterization of Familial Hypercholesterolemia linked genetic variants”

11.20-11.40 **Mihkel Vaher** “Identification of viral sequences from raw NGS data using gapped k-mers”

11.40-12.00 **Natalja Garber** “Mitochondrial helicase Irc3 translocates along double-stranded DNA”

12.00-12.20 **Mario Mitt** “Imputation quality of extremely low frequency variants”

12.20-14.00 Lunch break

Afternoon session

14.00-14.20 **Kreete Lüll** “Prediabetes traits in association with human gut microbiome”

14.20-15.00 **Raivo Vilu** Tallinn Technical University, School of Science, Department of Chemistry and Biotechnology, Division of Chemistry “**Single Cell Model - an essential tool of bacterial synthetic biology**”

15.00-17.00 Poster session

Tuesday December 12th 2017

Morning session

- 9.00-9.20 **Tõnis Org** “Genome-wide histone modification profiling of inner cell mass and trophoectoderm of bovine blastocysts by RAT-ChIP“
- 9.20-9.40 **Nele Taba** “Empirically derived dietary patterns – characteristics, phenotypic background, and associations with NMR metabolites and health outcomes in the Estonian Biobank cohort”
- 9.40-10.00 **Kati Hensen** “Cultivation of primary human granulosa cells for studying POF”
- 10.00-10.20 **Mari Tagel** “tRNA modification enzymes TruA and RluA affect mutation frequency in *Pseudomonas putida*”

10.20-10.50 Coffee break

- 10.50-11.10 **Kaspar Reier** “Changes in *Escherichia coli*’s ribosomal proteome”
- 11.10-11.30 **Ivan Kisly** “Dual role of the ribosomal protein eL24”
- 11.30-12.10 **Ken Kalling**, Faculty of Medicine, Institute of Family Medicine and Public Health, Department of Public Health „**The many beginnings of Estonian genetics**“

12.10-14.00 Lunch break

Afternoon session

- 14.00-14.20 **Mariann Koel** “Human embryo implantation interplay characterized by RNA sequencing suggests novel endometrial receptivity biomarkers”
- 14.20-14.40 **Triin Kikas** “Identifying placental eQTLs and determining biological importance of selected SNPs”
- 14.40-15.00 **Margus Leppik** “Random pseudouridylation in vivo reveals critical region of *Escherichia coli* 23S rRNA for ribosome assembly”

15.00-15.30 Coffee break

- 15.30-15.50 **Triinu Visnapuu** “Bacterial *N*-acetyl Hexosaminidases as a Potential Catalysts for Synthesis of Human Milk Oligosaccharide Core Structures”
- 15.50-16.30 **Prof. Peeter Hõrak**, Faculty of Science and Technology, Institute of Ecology and Earth Sciences, Chair of Animal Ecology „**Juhan Aul and Estonian Biobank in service of understanding human life-history evolution**“

- 16.30 Ending of the conference and prizes. Closing remarks **Prof. Maia Kivisaar**