



UNIVERSITY OF TARTU

Institute of Biomedicine
and Translational Medicine

Research Days of the Institute of Biomedicine and Translational Medicine

Biomedicum (Ravila 19-1006)

Thursday, January 30

08:30–09:00 Registration
09:00–09:05 Opening words: **Pärt Peterson**

Session I, moderated by **Karlis Pleiko**

09:05–09:35 Mending the broken heart: nanomedicines for targeting the myocardial infarction. **Hélder Almeida Santos** (University of Tartu/University of Groningen)
09:35–10:05 Endometrium and embryo in conception. **Andres Salumets** (UT)
10:05–11:35 From ER calcium handling to mitophagy: pathways to neuronal health restoration. **Allen Kaasik** (UT)

10:35–11:05 *Coffee break*

Session II, moderated by **Maarja Laos**

11:05–11:35 Introns: from nature to design. **Kärt Tomberg** (ExpressionEdits)
11:35–12:05 CAR-T cell therapy – the ultimate personalized cancer treatment. **Tanel Mahlakõiv** (Icosagen Cell Factory)
12:05–12:25 Application of metagenomic DNA analysis in food safety – honey DNA test example. **Kaarel Krjutškov** (UT)

12:25–13:10 *Lunch*

Session III, moderated by **Rain Inno**

13:10–13:30 Psychiatric disorder – associated Negr1 gene deficiency induces alterations in glutamate signaling and the kynurenine pathway. **Carolin Kuuskmäe** (UT)
13:30–13:50 Chronic stress induced behavioral and metabolomic changes in Negr1 deficient mice. **Mohan Jayaram** (UT)
13:50–14:10 Neuronal and microglial roles of miR-146 family. **Keerthana Chithanathan**
14:10–14:30 Hereditary cancer – linked germline variants are significantly enriched in infertile men. **Anu Valkna** (UT)
14:30–14:50 Child stool bacteriome: links to maternal gestational diabetes. **Kristi Alnek** (UT)

14:50–15:20 *Coffee break*

15:20–16:30 **Panel "Science and business"**, moderated by **Tambet Teesalu**
Hélder Almeida Santos, Alireza Fazeli, Andres Salumets, Tanel Mahlakõiv

Estonian Doctoral School for Medical and Health Sciences, Veterinary Medicine.
The event is supported by the Estonian Doctoral School
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Session IV, moderated by Pavel Kudrin

- 09:00–09:30 From provider to patient, from one-size to personalized: the future of cervical cancer prevention. **Anneli Uusküla** (UT)
- 09:30–10:00 Intestinal helminth infection promotes dissemination of Th2 cells with Th1 features to distal barrier sites. **Egon Urgard** (University of Copenhagen)
- 10:00–10:20 Human microbiota – what, why, how? **Reet Mändar** (UT)

10:20–10:50 *Coffee break*

Session V, moderated by Martin Pook

- 10:50–11:20 Development of the cerebellum through an evolutionary lens. **Mari Sepp** (University of Heidelberg)
- 11:20–11:50 Intestinal stem cells in development and disease. **Martti Maimets** (University of Copenhagen)
- 12:00–12:20 The future of extracellular vesicles: lessons learned and opportunities ahead. **Alireza Fazeli** (UT)

12:20–13:05 *Lunch*

Session VI, moderated by Luca Marchetti

- 13:05–13:25 Protective effects of remote ischaemic preconditioning in lower extremity artery disease. **Karl Kuusik** (UT)
- 13:25–13:45 Fecal microbiome predicts treatment response after the initiation of semaglutide or empagliflozin uptake. **Annabel Klemets** (UT)
- 13:45–14:05 Immunohistochemical evaluation of LGR5, CD71, CD138 and CXCR3 markers in the small bowel mucosa of participants with celiac disease and persons with normal bowel mucosa. **Tamara Vorobjova** (UT)
- 14:05–14:25 Flipped classroom method in teaching histology. **Piret Hussar** (UT)

14:25–14:55 *Coffee break*

Session VII, moderated by Uku Haljasorg

- 14:55–15:15 Viruses in health and disease. **Kristi Huik** (UT)
- 15:15–15:35 Blood-brain barrier penetrating peptide Cerepep. **Kristina Põšnograjeva** (UT)
- 15:35–15:55 *Sero venientibus ossa*. **Eero Vasar** (UT)
- 15:55–16:15 Presentation of the e-textbook "Immunoloogia". **Raivo Uibo** (UT)
- 16:15–16:20 Concluding words

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