

# Karl Ernst von Baer's seminar

## 19.-21.10.2023

ORGANIZED BY THE UNIVERSITY OF TARTU AND BALTIC FERTILITY SOCIETY

VENUE: OMICUM, UNIVERSITY OF TARTU, Riia 23b, Tartu

19.10.2023

16:00 – 18:00 Guided tour at the Estonian National Museum

19:00 – 21:00 Welcoming event at the University of Tartu art museum

20.10.2023

8:15 – 8:45 Registration and morning coffee

8:45 – 9:00 Prof. Andres Salumets: Welcome

9:00 – 9:15 **Natàlia Pujol-Gualdo**, University of Tartu & University of Oulu: Genetic risk factors and potential personalized strategies in women reproductive health and disease

9:15 – 9:30 **Nidhi Madhusudan**, University of Helsinki & University of Tartu: Novel neuroendocrine and ovarian genes in female fertility

9:30 – 9:45 **Seungbaek Lee**, University of Oulu & University of Tartu: Mining local and systemic inflammatory biomarkers for reproductive outcomes

9:45 – 10:00 **Laura Danti**, University of Helsinki & Karolinska Institutet: Human pluripotent stem cells as a model for somatic cell ovarian development and function

10:00 – 10:15 **Meruert Sarsenova**, University of Tartu & Karolinska Institutet: Studies of Molecular Landscape of Endometriosis

10:15 – 10:30 **Yiqun Tang**, Karolinska Institutet & University of Oulu: Endometrial regeneration and uterine disorders – cellular and molecular studies

10:30 – 10:45 **Lena Luyckx**, University of Oulu & KU Leuven: Development of novel in vitro and in vivo models to investigate the infertility problems of patients with polycystic ovary syndrome

10:45 – 11:00 **Maria Siermann**, KU Leuven & University of Helsinki: The ethical aspects of preimplantation genetic testing for polygenic conditions

11:00 – 11:30 Coffee break and exhibition

**PRENATAL TESTING**

11:30 – 12:00 Prof. Joris Vermeesch, KU Leuven, Belgium: Innovations of prenatal screening

12:00 – 12:30 Dr. Olga Tšuiiko, KU Leuven, Belgium: Trends in preimplantation genetic testing

12:30 – 13:00 Prof. Kadri Simm, University of Tartu: Ethics of prenatal studies

13:00 – 14:00 Lunch and exhibition

## **FEMALE INFERTILITY PATIENT**

**14:00 – 14:30 Prof. Juha Tapanainen**, University of Helsinki, Finland: Infertility and endocrinology mechanisms

**14:30 – 15:00 Prof. Terhi Piltonen**, University of Oulu, Finland: PCOS mechanisms and consequences

**15:00 – 15:30 Prof. Piotr Laudański**, Medical University of Warsaw, Poland: Endometriosis – search for biomarkers

**15:30 – 16:00 Prof. Beata Banaszewska**, Poznan University of Medical Science, Poland

**16:00 – 16:15 Break and exhibition**

**16:15 – 16:30 Spyridon-Panagiotis Deligiannis**, University of Tartu & University of Helsinki: Predictors of mammalian embryo viability

**16:30 – 16:45 Nina Boskovic**, Karolinska Institutet & University of Helsinki: Environmental factors influencing embryonic genome integrity

**16:45 – 17:00 Yan Zhao**, KU Leuven & University of Tartu: Unravelling the mechanisms of chromosomal instability during early embryogenesis

**17:00 – 17:15 Baris Yasar**, University of Tartu & Karolinska Institutet: Advanced chromosomal testing tools for embryo quality and foetal health

**17:15 – 17:30 Kate Stanley**, KU Leuven & Karolinska Institutet: Developmental Fate of Chromosomal Instability

**18:00 – 19:00 KEYNOTE SPEECH at assembly hall of the University of Tartu – Prof. Scott F Gilbert**, Swarthmore College, USA: Developmental biology and obstetrics: the myths and the science

19:30 Dinner at the Convent of Corporation Rotalia, Tähe 4, Tartu

**21.10.2023**

**8:30 – 9:00 Morning coffee**

## **SINGLE CELL MODELS FOR DEVELOPMENT**

**9:00 – 9:30 Prof. Fredrik Lanner**, Karolinska Institutet, Sweden: Pre- and post-implantation single cell stem cell models

**9:30 – 10:00 Prof. Pauliina Damdimopoulou**, Karolinska Institutet, Sweden: Female fertility and exposome

**10:00 – 10:30 Ass. Prof. Agne Velthut-Meikas**, Tallinn University of Technology, Estonia: Ovarian stimulation and its molecular pathways

**10:30 – 11:00 Prof. Shahar Kol**: LH supplementation in IVF: It is all about endocrinology

**11:00 – 11:30 Coffee and exhibition**

**11:30 – 12:00 Prof. Kenny Rodriguez Wallberg**, Karolinska Institutet, Sweden: Assisted reproduction and its safety

**12:00 – 12:30 Prof. Masoud Zamani Esteki**, University of Maastricht, The Netherlands: (Non-invasive) approaches in reproductive genomics

**12:30 – 13:00 Ass. Prof. Arturo Lázaro Reyes Palomares**, Karolinska Institutet, Sweden: IVF risks stemming from in vitro embryogenesis

**13:00 – 14:00 Lunch and exhibition**

**14:00 – 14:30 Prof. Ganesh Acharya**, Karolinska Institutet, Sweden: Estimating the pregnancy risks

**14:30 – 15:00 Prof. Lalit Kumar Parameswaran Grace**, Karolinska Institutet, Sweden

**15:00 – 15:30 Prof. Arto Mannermaa**, University of Eastern Finland, Finland: Cancer risk of reproductive organs

**15:30 – 16:00 Dr. Ilmatar Rooda**, Karolinska Institutet, Sweden: Single follicle studies

**16:00 – 16:15 Break and exhibition**

**16:15 – 16:45 Dr. Kai Haldre**, University of Tartu Hospital

**16:45 – 17:15 Ass. Prof. Signe Altmäe**, University of Granada, Spain: Endometrial microbiota studies

**17:15 – 17:45 Prof. Reet Mändar**, University of Tartu, Estonia: Couples microbiota as the determinant of fertility

**17:45 – 18:00 Closing words**