Tartu, Estonia, September 19–20, 2018
Venue: Institute of Molecular and Cell Biology, University of Tartu, Omicum building, Riiia 23b/2, auditorium 105

**PROGRAMME:**

**Wednesday, September 19, 2018**

09:30–10:00 Welcome coffee

10:00 Opening words, Professor Ants Kurg, University of Tartu

**I session: ENDOMETRIOSIS PATHOGENESIS**

   “Endometriosis, course of disease”

10:50–11:25 Nilufer Rahmioglu (UOXF, Oxford, UK)
   “Largest genome-wide association meta-analysis of endometriosis and its subtypes including 63K cases and 482K controls reveals novel loci”

11:25–12:00 Maarja Lepamets (UTARTU, Tartu, EST)
   “CNV analysis of endometriosis”

12:00–13:15 Lunch break

**II session: EMBRYO GENOMICS**

   “Genomic application in preimplantation and prenatal diagnosis”

   “A closer look at chromosome instability in preimplantation embryos”

14:25–15:00 Elia Fernandez-Gallardo (KU Leuven, Leuven, BEL)
   “Parallel single cell genome and transcriptome sequencing to study the chromosomal instability during human embryonic preimplantation development”

15:00–15:20 Coffee break

**III session: SAFE REPRODUCTION**

15:20–15:55 Hanna Valli (University of Pittsburgh, Pittsburgh, USA)
   “Fertility preservation programs for women and men”

15:55–16:30 Lauris Kaplinski (UTARTU, Tartu, EST)
   “Non-invasive prenatal diagnostics”

**Thursday, September 20, 2018**

09:00–09:30 Welcome coffee

**IV session: TRILATERAL PATERNAL, MATERNAL AND EMBRYO COMMUNICATION**

09:30–10:05 Ingrid Granne (UOXF, Oxford, UK)
   “The influence of Seminal Fluid Extracellular Vesicles on human endometrium”

10:05–10:40 Jennifer Southcombe (UOXF, Oxford, UK)
   “Endometrial immune profiles in subfertility – a detailed flow cytometric and transcriptomic investigation of immune cells in recurrent miscarriage and RIF”

10:40–11:15 Régine PM Steegers-Theunissen (Erasmus University Medical Center, Rotterdam, NLD)
   “Periconceptional parental conditions and health and disease in later life”

11:15–11:50 Alireza Fazeli (UTARTU, Tartu, EST & University of Sheffield, UK)
   “Embryo-Maternal Communication in the Era of Intercellular Epigenomics”

11:50–13:15 Lunch break

**V session: NOVEL GENOMIC TECHNOLOGIES**

13:15–13:50 Omid Faridani (Karolinska Institutet, Stockholm, SWE)
   “Novel single-cell sequencing technologies for mRNAs and small RNAs profiling”

13:50–14:25 Juozas Gordevicius (Institute of Biotechnology, Vilnius University, Vilnius, LIT)
   “High resolution epigenomic technologies for DNA modification analysis”

14:25–14:45 Coffee break

**VI session: FROM EMBRYO TO A CHILD**

14:45–15:20 Heleen Masset (KU Leuven, Leuven, BEL)
   “Single-cell genome-wide haplotyping and copy-number profiling through massive parallel sequencing”

15:20–15:55 Valery Zukin (Clinic of Reproductive Medicine “Nadiya”, Kyiv, UKR)
   “In-parental conception in practice”

15:55–16:30 Kaarel Krjutškov (UTARTU, Tartu, EST)
   “READY-test: a novel endometrium receptivity test applying advanced biomarker profiling method”

Closing remarks, Professor Andres Salumets, University of Tartu

The participation is for free; Registration until September 12 and additional information on webpage: https://sisu.ut.ee/widenlife

Funded by the European Union through the Coordination and Support Action of the H2020 program under grant agreement No 692065 „Widening the Scientific Excellence for Studies on Women’s and Fetal Health and Wellbeing“