



**European Academy of Andrology**  
**EAA School in Genetics**  
**September 11-13th, 2019**  
**Tartu, Estonia**  
**Conference Centre of University of Tartu Library**

**PROGRAMME**

**Wednesday, 11 September 2019**

**Topic ‘Basic principles in medical genetics’**

9.00 – 9.10 **Maris Laan** ‘Opening remarks – era of genomic medicine in andrology?’

9.10 – 10.10 **Joris Veltman** “Human genome, genetic variation, genomic technologies”

10.10 – 11.10 **Frank Tüttelmann** “From cytogenetics defects to Mendelian inheritance of genetic disease”

11.10 – 11.40 coffee break

11.40 – 13.00 Session II: interactive seminar (**Maris Laan and team**)  
“Revisiting the basic terminology and principles in medical genetics”  
The participants will receive pre-course homework instructions for this session.

13.00 – 13.45 Lunch

13.45 – 15.00 Guided walk to the Tartu Dome Hill and Carl Ernst von Baer monument

15.00 – 18.00 Session III: practical courses. Two small groups (up to 15 participants per group)

- Hands-on learning of human medical genetics databases and their utility in clinical practice (computer class; R.Inno, L.Kasak, P.Hallast)
- Interactive presentation and discussion on clinical cases with a suspected or diagnosed genetic cause, and their clinical assessment (C.Krauz, F. Tüttelmann, J. Veltman, M.Laan, M. Punab)

Every participant will bring along one case; brief presentation of the case on up to 3 slides.

## Thursday, 12 September 2019

### Topic 'Androgenetics -state-of-the-art and respective clinical utility'

9.00 – 9.30 **Margus Punab** "Clinicist's view to the status of genetic testing in andrology clinic"

9.30 – 10.00 **Csilla Krausz** "Diagnostic Y-chromosome testing and external quality control of the EMQN/EAA"

10.00 – 10.45 **Joris Veltman** "Clinical considerations and current applications of using whole exome and genome sequencing in andrology research and clinic"

10.45 – 11.15 coffee break

11.15 – 11.45 **Frank Tüttelmann** "Utility and diagnostic yield of classical and molecular cytogenetics for the detection on gross and submicroscopic chromosomal aberrations in andrology workup"

11.45 – 12.15 **Csilla Krausz** "Klinefelter syndrome from a broad prospective"

12.15 – 13.00 **Maris Laan** "Digenic/oligogenic effects – role in andrological conditions?"

13.00 – 13.45 Lunch

13.45 – 17.00 Session III: practical courses. Two small groups (up to 15 participants per group)

- Hands-on learning of human medical genetics databases and their utility in clinical practice (computer class; R.Inno, L.Kasak, P.Hallast)
- Interactive presentation and discussion on clinical cases with a suspected or diagnosed genetic cause, and their clinical assessment (C.Krauz, F. Tüttelmann, J. Veltman, M.Laan, M. Punab)

Every participant will bring along one case; brief presentation of the case on up to 3 slides.

17.00 – 22.00 Course Dinner and Tour in Mooste Manor (<http://www.moostemois.ee/?keel=eng>)

## Friday, 13 September 2019

### Topic 'Current research advances in androgenetics'

9.00 – 9.45 **Frank Tüttelmann** "Interdisciplinary approach towards male infertility - project 'Male Germ Cells: from Genes to Function'"

9.45 – 10.15 **Joris Veltman** "De novo mutations – frequent or rare cause of male infertility?"

10.15 – 11.00 **Pille Hallast** "Y-chromosomal analysis beyond AZF regions – relevant or not in andrology?"

11.00 – 11.30 coffee break

11.30 – 12.00 **Csilla Krausz** “Overlap between the genetics of infertility and cancer”

12.00 – 12.45 **Lili Milani** (Estonian Biobank, visiting Lecture ) “The resources of biobanks for the research and pharmagenical applications in clinical genetics”.

12.45 – 13.30 Lunch

13.30 – 15.00 Wrap-up session:

- Course faculty (led by **Csilla Krausz** ) ‘Feedback from the interactive case discussions’
- Interactive discussion (all) on the actions needed to promote and standardize advanced genetic testing and interpretation/counselling of its outcomes in European andrology centres
- **Margus Punab** “Closing remarks”