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European Academy of Andrology
EAA 2nd School in Genetics
January 22-24th, 2025
Tallinn, Estonia

Organized by the EAA Centre: Andrology Clinic, Tartu University Hospital

Travel Grants Available!

The European Academy of Andrology is pleased to offer five travel grants of €350 each to support EAA members attending the School. These grants are intended to reimburse travel costs only (registration fees not covered).

Eligibility: All EAA members with 2024/2025 fees paid may apply. Priority will be given to members under 45 years old.

Please submit your travel grant application form to the EAA Office (office@andrologyacademy.net) by 15 November 2024.

Andronet supports 3 participants and the exact travel reimbursement rules are given in the course web page. Andronet support is for the ANDRONET members and information about joining the ANDRONET network can be found here: <https://www.cost.eu/actions/CA20119/#tabs+Name:Working%20Groups%20and%20Members+hip>

Please send the application for ANDRONET participation grants to mailis.sutt@kliinikum.ee, by 15 November 2024

EAA School in Genetics aims to offer the high-quality state-of-the-art level training to physicians and biomedical researchers interested in medical genetics with the specific focus on the genetics of andrological conditions. This will increase the knowhow and broader application of genetic testing among the andrologists, speed up the transfer of knowledge concerning recent advances in genetics and standardization of the utility and interpretation of novel genetic tools in the clinical practice. The course is also expected to promote genetic research in European andrology centres, with the specific focus on promoting synergetic and complementary actions.

Local organizers and core faculty:

Kristjan Pomm, MD; Director, Andrology Clinic, Tartu University Hospital

Maris Laan, PhD; professor of human genetics, Vice-Dean for research, Faculty of Medicine, University of Tartu

Margus Punab, MD, PhD; professor of andrology, Andrology Clinic, Tartu University Hospital and University of Tartu

Local supporting faculty: Rain Inno, PhD; Anna-Grete Juchnewitch, MSc; Anu Valkna, MD; Kristiina Lillepea, Chair of Human Genetics, Faculty of Medicine, University of Tartu; Mailis Sütt, MSc, Andrology Clinic, Tartu University Hospital

International faculty:

Aleksander Giwercman, MD, PhD; professor; Dept. of Translational Medicine, Lund University; the Chairman at Fertility Centre, Malmö University Hospital, Sweden

Frank Tüttelmann, MD; Director, Centre of Medical Genetics, Institute of Reproductive Genetics, University of Münster, Germany.

Stephane Viville, PhD; professor, Institut de génétique et de biologie moléculaire et cellulaire (IGBMC), Strasbourg, France

Kristian Almstrup, PhD; Senior Scientist, Dept. of Growth and Reproduction, Copenhagen University Hospital – Rigshospitalet; Associate Professor, University of Copenhagen, Denmark

Miguel Xavier, PhD; Senior Research Associate, Biosciences Institute, Newcastle University, UK

Fredrik Wiklund, PhD; Senior lecturer, Department of Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm, Sweden

Antonio Capalbo, PhD; Chief Scientific Officer, Juno Genetics; Assistant Professor, Unit of Medical Genetics, Center for Advanced Studies and Technology (CAST), "G. d'Annunzio" University of ChietiPescara, Italy

Who should apply: andrologists; researchers in reproductive biomedicine; other attendees interested in male reproductive genetics

Venue: Conference Centre of Mercure Hotel Tallinn, Estonia
(<https://www.mercure tallinn.com/en/meetings-events/>)

Number of participants: 25 (priority to EAA junior members!)

Participation fee for the full course (incl lunches, coffee breaks and course dinners) **WITHOUT** accommodation in the course hotel (self-arranged accommodation) **In-training students EAA trainees** covered by grants of fellowships by EAA or/and ANDRONET, **EAA members 385€, others 500€**

Participation fee (incl lunches, coffee breaks and course dinners) **WITH** 3-night accommodation in the course hotel **In-training students EAA trainees** covered by grants of fellowships by EAA or/and ANDRONET, **EAA members 700€, others 850 €**

Language: English

Number of EAA credits: 2

DEADLINE for application: Nov 15h 2024

Course fee is to be paid by Dec 1st 2024:

Tartu University Hospital
SEB Bank
IBAN: EE641010220001585019
SWIFT/BIC: EEUHEE2X
Reference upon payment: Andrology Centre, EAA School in Genetics 2025

Full course programme and registration information are available at the EAA website (<http://www.andrologyacademy.net/education>).

Contact: Ms Mailis Sütt, Course manager; mailis.sutt@kliinikum.ee, Phone: +372 7319 323

COURSE PROGRAMME

Wednesday, January 22th

13:00 Maris Laan, Opening remarks
13:15 – 14:30 **Maris Laan** “Human genome variation – chromosomal, monogenic and complex diseases”
14:30 – 14:45 *Coffee break*
14:45 – 16:00 Practical exercises 1 – monogenic disorders (*in two parallel groups*)
16:00 – 16:15 *Coffee break*
16:15 – 17:00 **Miguel Xavier** “Genomic technologies in advancing molecular diagnostics”
17:00 – 18:15 Practical exercises 2 – chromosomal disorders (*in two parallel groups*) 18:30
Welcome reception – dinner (location, TBA)

Thursday, January 23rd

9:00 – 10:30 **Frank Tüttelmann** “From diagnostic Y-chromosome testing to advanced molecular diagnostics of monogenic male infertility – Münster experience”
10:30– 10:45 *Coffee break*
10:45 – 11:30 **Miguel Xavier** “Role of de novo mutations in male infertility – Newcastle experience”
11:30-12:00 **Margus Punab** “Discussion – ethics dilemmas and challenges in andrology in the era of advanced genetic testing”
12:00 – 13:00 *lunch*
13:00 – 14:00 **Aleksander Giwercman** “Sperm DNA defragmentation index- methods and clinical value”
14:00 – 15:00 **Kristian Almstrup** “Involvement of long and short non-coding RNAs in the pathogenesis of spermatogenic failure and modulating Klinefelter testicular phenotype.”
15:00 – 18:00 guided tour Tallinn Old City
18:30 – ... Dinner in Old City (restaurant **Olde Hansa**, <https://www.oldehansa.ee/our-menu/>)

Friday, January 24th

9:00 – 10:30 **Stephane Viville** “Monogenic causes of female infertility and shared etiology with male infertility. A new paradigm in MAR practice.”

Coffee break 10:30-10:45

10:45 – 12:00 **Maris Laan** “Advances of genetics in infertility management – Estonian experience in translating basic research outcomes to the clinic”

12:00 – 13:00 lunch

13:00 – 14:30 **Antonio Capalbo** “Medically assisted reproduction – preconception carrier screening and preimplantation genetic testing”

14:30 – 15:00 **Kristjan Pomm** “Discussion – opportunities, rationale and clinical benefit of advanced genetic testing in the efficient management of an infertile couple”

15:00– 15:30 Coffee break

15:30 – 16:00 **Kristian Almstrup** “Genetics of testicular cancer”

16:00 – 17:00 **Fredrik Wiklund** “Germline and somatic genetics of prostate cancer”

17:00 – 17:30 *Wrap-up* discussions on the actions needed to promote advanced genetic testing in European andrology centres, the challenges in test standardization, data interpretation and counselling of patients. 18:30 - Dinner (hotel Mercure)