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European Society for  
Paediatric Endocrinology



FACULTY OF HEALTH AND MEDICAL SCIENCES  
UNIVERSITY OF COPENHAGEN

**EDMaRC Postgraduate PhD Course:  
*Regulation of the Pituitary-Gonadal Axis in Childhood, Adolescence and Adults;  
Minipuberty and Puberty***

**COPENHAGEN**

**30<sup>th</sup> November to 2<sup>nd</sup> December, 2016**

**Programme committee:** Anders Juul (Copenhagen, DK), Jean-Pierre Bourguignon (Liege, Belgium), Katharina Main, Niels Erik Skakkebaek, Kristian Almstrup, Niels Jørgensen, Anna-Maria Andersson, Marie Lindhardt Johansen, Alexander Busch (all Copenhagen, DK).

**Programme coordinator:** Dina Muscat Meng ([dina.muscat.meng@regionh.dk](mailto:dina.muscat.meng@regionh.dk))

**Tuesday Nov 29<sup>th</sup>**

18:00 – 20:00

**Welcome reception** - Location: Rigshospitalet, Dept. of Growth and Reproduction, entrance 5, 7th Floor, section 5071

**Wednesday Nov 30<sup>th</sup>**

08:30 – 08:45

**Introduction to the course**  
Anders Juul, Course Leader, Rigshospitalet

08:45 – 09:15

**Multiple choice** (pre-course test)

09:15 – 09:55

**HPG Axis throughout life**  
Anders Juul, Rigshospitalet, Denmark

**MINIPUBERTY**

09:55 – 10:35

**Steroidogenesis in minipuberty**  
Christa Flück, Bern, Switzerland

10:35 – 10:50

**Coffee Break**

10:50 – 11:30

**Is minipuberty important for gender roles?**  
Melissa Hines, Cambridge, UK

11:30 – 12:10

**Ascent and descent of testes in relation to minipuberty**  
Jorma Toppari, Turku, Finland

12:10 – 12:50

**Interactive session**  
**(Presentations by students)**

- 12:50 – 13:35 ***Lunch for course participants***
- 13:35 – 14:15 **Application of minipuberty in clinics and research**  
Katharina Main, Rigshospitalet, Denmark
- 14:15 – 14:55 **Minipuberty: what is driven by the brain, by the gonad and by sex?**  
Tony M. Plant, Pittsburgh, USA
- 14:55 – 16:20 **Interactive session**  
**(Presentations by students)**

**FREE AFTERNOON AND EVENING**

**Thursday Dec 1<sup>st</sup>**

**PUBERTY**

- 08:30 – 09:10 **What determines pubertal timing and what does pubertal timing determine?**  
Anders Juul, Rigshospitalet, Denmark
- 09:10 – 09:50 **Influence of obesity on pubertal onset and progression in boys and girls**  
Frank M. Biro, Cincinnati, USA
- 09:50 – 10:30 **Critical windows for influences on pubertal timing**  
Jean-Pierre Bourguignon, Liège, Belgium
- 10:30 – 10:45 ***Coffee Break***
- 10:45 – 11:25 **Genetic influence on timing of puberty and reproductive health outcomes**  
John Perry, Cambridge, UK
- 11:25 – 12:05 **High impact gene variants underlying pubertal delay**  
Leo Dunkel, WHRI, London, UK
- 12:05 – 12:50 **Lunch for course participants**
- 12:50 – 13:30 **Puberty and adolescence: testosterone vs gonadotropin therapy**  
Taneli Raivio, Helsinki, Finland
- 13:30 – 14:10 **The impact of FSH signaling and action on timing of puberty, menstrual irregularity, PCOS and menopause**  
Casper Hagen, Rigshospitalet, Denmark
- 14:10 – 14:50 **Puberty and its influence on risk of disease in adulthood**  
Ken Ong, Cambridge, UK
- 14:50 – 15:30 **Testicular Dysgenesis Syndrome: early determinants of adult reproductive function**  
Niels Erik Skakkebaek, Rigshospitalet, Denmark
- 15:30 – 16:10 **Markers in cord blood for postnatal development predict adult male reproduction**  
Roger Hart, Western Australia, Australia

- 16:10 - 16:50      **Development of GnRH neurons and gonads in humans: new insights from 3D imaging in transparent fetuses**  
Paolo Giacobini, INSERM, France
- 19:00 -              **DINNER, Nørrebro Bryghus, Ryesgade 3, 2200 Copenhagen**
- Friday Dec 2<sup>nd</sup>**
- 08:30 – 09:10      **The influence of perinatal environment on female reproductive outcomes including PCOS**  
Roger Hart, Western Australia, Australia
- 09:10 – 09:50      **Reproductive outcomes including PCOS in treated vs. untreated sexual precocity**  
Liat de Vries, Tel Aviv, Israel
- 09:50 – 10:30      **Brain influences of sex steroid treatment in adolescence?**  
Anne-Lise Goddings, UCL, London, UK
- 10:30 – 10:45      **Coffee Break**
- TREATMENT**
- 10:45 – 11:25      **FSH polymorphisms and testicular function:  
A new rationale for FSH treatment of infertile men?**  
Niels Jørgensen, Rigshospitalet, Denmark
- 11:25 – 12:05      **The neuroendocrine interaction between nutrition and reproductive development:  
Insight from rodents**  
Manuel Tena-Sempere, Cordoba, Spain
- 12:05 – 12:45      **Lunch for course participants**
- 12:45 – 13:25      **The neuroendocrine interaction between nutrition and reproductive development:  
insight from humans**  
Francois Pralong, Lausanne, Switzerland
- 13:25 – 14:05      **Neuroendocrine disruption of reproduction**  
Anne-Simone Parent, Liège, Belgium
- 14:05 – 15:05      **Interactive session  
(Presentations by students)**
- 15:05 -16:05      **CASE-STUDY: Environment and reproductive health: beyond research and publication**  
Jean-Pierre Bourguignon/Niels Erik Skakkebaek/Anna-Maria Andersson
- 16:05 - 16:35      **Multiple choice (post-course test)**