



10th Copenhagen Workshop on ENDOCRINE DISRUPTERS 2024 • March 11-14

SCIENTIFIC PROGRAMME FOR COW2024

MONDAY 11 MARCH

11.00-12.45 REGISTRATION AND SANDWICHES

12.45 - 13.00 OPENING

Welcome and introduction to the Workshop
Anna-Maria Andersson, Rigshospitalet, Denmark

13.00 - 14.00 REPRODUCTION IN A CHANGING ENVIRONMENT

Chaired by: Niels Erik Skakkebæk & Anna-Maria Andersson

- 13.00-13.30 1 Long-term air pollution records from cities
Kurt H. Kjær, GeoGenetics, Globe institute, University of Copenhagen
- 13.30-14.00 2 Chemical links with adverse effects on aquatic wildlife populations
Charles Tyler, Biosciences, University of Exeter, UK

14.00 - 14.30 COFFEE BREAK

14.30 - 17.00 POPULATION TRENDS IN FERTILITY

Chaired by: Niels Erik Skakkebæk & Anders Juul

- 14.30-14.40 1 Chair's introduction
Niels Erik Skakkebæk
- 14.40-15.10 2 Trends in fertility, infertility, and childlessness in European countries: Demographic aspects
Peter Fallesen, The Rockwool Foundation Research Unit, Denmark
- 15.10-15.40 3 Trends in natural pregnancy rate (PR) as an indicator of fecundity
Lærke Priskorn, Growth and Reproduction, Rigshospitalet, Denmark
- 15.40-16.10 4 Proposed model for distinguish between biological and psych-social economic factors in childlessness
Rune Lindahl-Jacobsen, Public Health, University of Southern Denmark
- 16.10-17.00 5 Panel Discussion:
All speakers of the session & Lone Schmidt, Public Health, Social Medicine, University of Copenhagen

17.00 - 19.00 GET TOGETHER RECEPTION AND POSTER SESSION (even numbers)



TUESDAY 12 MARCH

9.00 - 12.10 ENDOCRINE DISRUPTION AND TIMING OF PUBERTY

Chaired by: *Anders Juul & Manuel Tena-Sempere*

- 9.00-9.10 1 Chair's introduction: Secular trends in normal and precocious puberty: Impact of endocrine disrupting chemicals?
Anders Juul, Growth and Reproduction, Rigshospitalet, Denmark
- 9.10-9.40 2 Prenatal and postnatal factors affecting timing of puberty: the Danish National Birth Cohort
Cecilia Ramlau-Hansen, Public Health, Aarhus University, Denmark
- 9.40-10.10 3 EDC exposure and puberty timing in Spain: the INMA cohort
Carmen Freire, Biomedical Research Centre, University of Granada, Spain

10.10 - 10.30 COFFEE BREAK

ENDOCRINE DISRUPTION AND TIMING OF PUBERTY (cont.)

- 10.30-11.00 4 Regulation of puberty timing and impact of EDCs in rodents
Manuel Tena-Sempere, Cell Biology and physiology, University of Cordoba, Spain
- 11.00-11.30 5 EDCs and GnRH pulsatility
Anne-Simone Parent, Neuroendocrinology unit, University of Liège
- 11.30-12.00 6 Monitoring exposure to environmental chemicals using non-targeted analyses/suspect screening: Where do we stand?
Arthur David, Environmental health sciences, School of Public Health, France
- 12.00-12.10 7 Effects of transgenerational endocrine disruptor exposure and in utero high fat diet exposure on male sexual development
Charlotte Jacquinet (poster #26)

12.10 - 13.00 LUNCH

13.00- 15.30 ENDOCRINE DISRUPTION OF THE FEMALE REPRODUCTIVE SYSTEM

Chaired by: *Pauliina Damdimopoulou & Hanna Johansson*

- 13.00-13.30 1 Reproduction in a chemically altered environment - chemicals and fertility in women
Pauliina Damdimopoulou, Clinical Science, Karolinska Institute, Sweden
- 13.30-14.00 2 Impact of EDCs on placenta function
Cheryl Rosenfeld, Biomedical Sciences, University of Missouri, USA
- 14.00-14.30 3 Estrogenic pollutants and the maternal mammary gland
Laura Vandenberg, Environmental Health Sciences, University of Massachusetts, USA

14.30-15.00 COFFEE BREAK

ENDOCRINE DISRUPTION OF THE FEMALE REPRODUCTIVE SYSTEM (cont.)

- 15.00-15.10 4 Ovarian stroma - a potential endpoint for endocrine disrupting effects
Hanna KL Johansson (poster #29)
- 15.10-15.20 5 Exposure to diethylstilbestrol causes transgenerational effects on female fertility and reproductive development through altering DNA methylation
Rachael Rogers (poster #3)
- 15.20-15.30 6 Ovarian Follicular Fluid Levels of Phthalates and Benzophenones in relation to Fertility Outcomes
Astrid L Beck (poster #7)

15.30-16.20 PRE- AND EARLY POSTNATAL EXPOSURE AND EARLY SEX DEVELOPMENT

Chaired by: *Ewa Rajpert-De Meyts & Terje Svingen*

- 15.30-16.00 1 Maternal smoking: revisiting the estrogen hypothesis and effects on receptor activation
Paul Fowler, Medical Sciences, University of Aberdeen, UK
- 16.00-16.20 2 Maternal insecticidal exposure for malaria control and hypospadias: VHEMBE Birth Cohort, Limpopo, South Africa
Riana Bornman (poster#9)

18.30 - 22.30 WORKSHOP DINNER



WEDNESDAY 13 MARCH

9.30 - 12.20 PRE- AND EARLY POSTNATAL EXPOSURE AND EARLY SEX DEVELOPMENT (cont.)

Chaired by: *Ewa Rajpert-De Meyts & Terje Svingen*

- 9.30-10.00 3 Association of late prenatal exposure to analgesics and outcomes in offspring – animal models
David Møbjerg Kristensen, Science and Environment, Roskilde University Centre, Denmark
- 10.00-10.30 4 EDC exposure and early sex development: lessons from the Spanish INMA-cohort
Marieta Fernandez, University of Granada, Spain
- 10.30-11.00 5 EDC exposure and early sex development: lessons from the Danish COPANA-cohort
Margit Fischer & Gylli Mola, Growth and Reproduction, Rigshospitalet, Denmark

11.00 - 11.30 COFFEE BREAK

PRE- AND EARLY POSTNATAL EXPOSURE AND EARLY SEX DEVELOPMENT (cont.)

- 11.30-12.00 6 EDC effects on the transcriptional profile of developing gonads
Frederic Chalmel, Research centre on environmental and occupational health – IRSET, France
- 12.00-12.10 7 Transgenerational effects in males following diethylstilbestrol exposure differ between maternal and paternal lineages
Deidre Mattiske (poster #32)

12.10 - 13.00 LUNCH

13.00 - 17.10 ENDOCRINE DISRUPTION OF THE MALE REPRODUCTIVE SYSTEM

Chaired by: *Niels Erik Skakkebæk & Serge Nef*

- 13.00-13.10 1 Chair's introduction: Foetal origin of male reproductive disorders
Niels Erik Skakkebæk, Growth and Reproduction, Rigshospitalet, Denmark
- 13.10-13.40 2 Effect of cannabinoids on male reproduction: from the endogenous regulation to the endocrine disruption
Aurore Gely-Pernot, Inserm, Université de Rennes
- 13.40-14.10 3 Prenatal exposures and adult reproductive function – 20 years follow-up of the Copenhagen mother-child cohort
Katharina Main, Growth and Reproduction, Rigshospitalet, Denmark
- 14.10-14.40 4 Semen quality and long-term health
Niels Jørgensen, Growth and Reproduction, Rigshospitalet, Denmark

14.40 - 15.10 COFFEE BREAK

ENDOCRINE DISRUPTION OF THE MALE REPRODUCTIVE SYSTEM (cont.)

- 15.10-15.40 5 Spatial dependence of semen quality in Switzerland
Rita Rahban, Genetic Medicine and Development, University of Geneva, Switzerland
- 15.40-16.10 6 Developing an Adverse Outcome Pathway network for reproductive toxicity
Terje Svingen, National Food Institute, Technical University of Denmark
- 16.10-16.40 7 Animal models for development of male genitalia
Andrew Pask, School of BioSciences, The University of Melbourne, Australia
- 16.40-17.10 8 Crosstalk between the thyroid hormone axis and male reproductive development
Monica Draskau, National Food Institute, Technical University of Denmark

17.10 - 18.30 SNACKS AND POSTER SESSION (uneven numbers)



THURSDAY 14 MARCH

9.00 - 12.20 PRE- AND EARLY POSTNATAL EXPOSURE AND CHILD DEVELOPMENT AND HEALTH

Chaired by: Katharina Main & Jorma Toppari

- 9.00-9.30 1 Prenatal exposures and child neurodevelopment: Odense mother-Child Cohort
Tina Kold Jensen, Public Health, University of Southern Denmark
- 9.30-10.00 2 Neurodevelopmental and epigenetic effects of EDC exposure: from mechanistic insights to novel test methods
Joëlle Rüegg, Organismal Biology, Uppsala University, Sweden
- 10.00-10.30 3 High prenatal PFAS exposure in Rönneby and child development and health
Christel Nielsen, Occupational and Environmental Medicine, Lund University, Sweden

10.30 - 11.00 COFFEE BREAK

PRE- AND EARLY POSTNATAL EXPOSURE AND CHILD DEVELOPMENT AND HEALTH (cont.)

- 11.00-11.30 4 EDCs, child neurodevelopment and underlying biological pathways: applying evidence-based prioritizations to inform epidemiological analysis - an example in the SEPAGES cohort
Claire Philippat, University Grenoble Alpes, Inserm, France
- 11.30-12.00 5 Transgenerational effects of EDCs
Oskar Karlsson, Environmental Science, Stockholm University, Sweden
- 12.00-12.10 6 Association between prenatal and early postnatal exposure to Perfluoroalkyl substances and IQ scores in 7-yearold children from the Odense Child Cohort
Iben H Beck (poster #17)
- 12.10-12.20 7 Association between the childhood exposure to pyrethroids and chlorpyrifos at age 5 years and IQ at age 7 years; a prospective study of mother-child pairs in Odense Child Cohort
Stine S Normann (poster #18)
- 12.20-12.30 8 Synergistic Identification and Prediction of Chemicals with Endocrine Disrupting Properties by combining toxicotranscriptomic signatures from HepaRGTM, TOXsigN and BRB-seq Screening
Thomas A Darde (poster #39)

12.30 - 13.20 LUNCH

13.20 - 15.00 EDCs: FROM SCIENCE TO POLICY AND SOCIETAL AWARENESS

Chaired by: Marie Louise Holmer & Jane Morthorst

- 13.30-14.00 1 Validation of methods for the regulatory identification of endocrine disruptors
Elise Grignard, PEPPER, France
- 14.00-14.20 2 Oxybenzone: A case study to structure ethical environmental health decision-making
Laura Vandenberg, Environmental Health Sciences, University of Massachusetts, USA
- 14.20-14.30 3 ESHRE factsheets: environmental aspects of reproductive health problems
Maribel Ación, Reproductive Health, University College London, UK & ESHRE
- 14.30-15.00 4 EDC identification and regulation
Marie Louise Holmer, National Food Institute, Technical University of Denmark

15.00 - 15.45 CLOSING REMARKS

