Pregnancy exposures, genetics and epigenetics - short and long-term health outcomes for women and child

Location: Stort møterom, Georg Sverdrups hus, University of Oslo, Molkte Moes vei 39 0851 Oslo Date: 6th and 7th of September

10.00 10.20 Coffee / Arrivela
10:00 – 10:30 Collee/ Arrivais
10:30 – 10:40 Welcome to Oslo
Gunn-Helen Moen & Kåre Birkeland
10:40 – 11:40 The effects of Assisted Reproductive Technologies on offspring health
Deborah Lawlor, Professor at the University of Bristol
11:40 – 12:00 Break
12:00–12:30 Introduction to EPIPREG – Epigenetics in pregnancy
Christine Sommer, Researcher at Oslo University Hospital
12.30 – 13.15 Epigenome-wide Association Study of objectively measured moderate physical
activity in pregnancy
Nicolas Fragoso Bargas, PhD student at Oslo University Hospital
13:15 – 14:15 Lunch
14:15 – 14:45 Fetal and early childhood growth in a multi-ethnic populationlessons learnt fro the STORK-Groruddalen study
Line Sletner, Postdoc researcher at Akershus University Hospital
14:45 – 15:30 Using two sample Mendelian randomization to test whether parental obesity of
offspring cardiometabolic risk factors
Tom Bond, Senior Research Associate at the University of Bristol
15:30 – 16:00 Mendelian Randomization analysis of the effect of the intrauterine environme
offspring neurodevelopmental traits
Shannon D'Urso, PhD student at University of Queensland
16:15 – 16:45 Break
16:45 – 17:15 Comprehensive metabolic profiling of healthy pregnancies vs. pregnancies
complicated by preeclampsia: A longitudinal study
17:15 – 17:45 The 4 vessel-sampling method: Placenta-derived proteins in health and disease
Ane Cecilie Westerbera. Postdoc researcher at Oslo University Hospital

September 7th:

9:00 – 9:15 Welcome day 2

- 9:15 10:15Using Genome-Wide Association Studies and Mendelian Randomization to Investigate
the Developmental Origins of Health and Disease (DOHaD)
David Evans, Professor at the University of Queensland
- 10:15-10:45 Why does low birthweight increase the risk of type 2 diabetes and other cardiometabolic diseases?

Gunn-Helen Moen, Postdoc researcher at the University of Oslo

10:45 – 11:15 Break

11:15 – 12:00 Fertility and Diabetes

Elisabeth Qvigstad, Associate Professor at University of Oslo

12:00 - 13:00 Lunch

13:00 – 13:30 Results from the STORK 5-year follow-up project: focusing on gestational diabetes and prediabetes

Tove Lekva, Researcher at Oslo University Hospital

13:30 – 14:00 Causal effect of maternal and paternal glucose level on offspring birthweight, gestational age, and later life cardiometabolic traits: a Mendelian randomization analysis

Laxmi Bhatta, Postdoc researcher at NTNU

- 14:00 –14:15 Break
- 14:15 15:15 Developmental programming of type 2 diabetes molecular mechanisms and clinical implications

Allan Vaag, Professor at the University of Copenhagen

15:15–15:45Seminar summary and farewellsKåre Birkeland, Professor at the University of Oslo