



**Conference on Epidemiological Birth Cohort and Longitudinal Studies – 3<sup>rd</sup> Paula Rantakallio Symposium**

Wednesday 13 – Friday 15 June, 2018, Oulu, Finland

Organized by The Northern Finland Birth Cohort Studies (<http://www.oulu.fi/nfbc/>)  
University of Oulu, Finland (<http://www.oulu.fi/>)

**Program**

***Wednesday June 13th***

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09.00 – 10.00	Welcome coffee and registration
<b>Session I</b>	Chair, Juha Veijola
10.00 – 10.15	Opening remarks <b>Taina Pihlajaniemi, Professor, Vice rector, University of Oulu, Finland</b>
10.15 – 10.50	Stress and chronic disease across the life course <b>Mika Kivimäki, University College of London, United Kingdom</b>
10.50 – 11.05	Prenatal cigarette smoke exposure and DNA methylation changes in adulthood <b>Ville Karhunen, Imperial College London, United Kingdom</b>
11.05 – 11.20	Investigating the impact of second-hand tobacco smoke exposure on DNA methylation and related health risks; the Avon Longitudinal Study of Parents and Children <b>Rebecca Richmond, University of Bristol, United Kingdom</b>
11.20 – 11.55	First trimester origins of adult diseases <b>Vincent Jaddoe, Erasmus MC, Netherlands</b>
11.55 – 13.30	Lunch, Posters, exhibition
<b>Session II</b>	Chair, Minna Männikkö
13.30 – 14.05	Health consequences of life circumstances among men and women over the life course <b>Anne Hammarström, Uppsala University, Sweden</b>
14.05 – 14.20	Longitudinal trajectories of physical activity from childhood to adulthood and their determinants: the Cardiovascular Risk in Young Finns Study <b>Tuija Tammelin, LIKES Research Centre for Physical Activity and Health, Finland</b>
14.20 – 14.50	Coffee





**Wednesday June 13th**

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- 14.50 – 15.05      The origins project: a community project to restore global health  
**Desiree Silva, Telethon Kids Institute, Australia**
- 15.05 – 15.40      Generalizability, representativeness and baseline selection in birth cohorts  
**Lorenzo Richiardi, University of Torino, Italy**
- 15.40 – 15.55      The Finnish Gestational Diabetes Study (FinnGeDi)  
**Elina Keikkala, Oulu University Hospital and University of Oulu, Finland**
- 15.55 – 16.30      Is the DOHaD paradigm applicable to Spinal Pain?  
**Anne-Marie Nybo Andressen, University of Copenhagen, Denmark**
- 16.30 – 16.45      Physical fitness in adults born preterm - a study of 80,000 young men  
**Marjaana Tikanmäki, National Institute for Health and Welfare, Finland**
- 16.45 – 17.00      Quantitative urine NMR metabolomics pipeline for large-scale systems epidemiology  
**Mika-Alakorpela, Baker Heart and Diabetes Institute, Australia**





**Thursday June 14th**

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09.00 – 09.30	Coffee
<b>Session I</b>	Chair, Jouko Miettunen
09.30 – 10.05	Mendelian randomization: an update <b>George Davey-Smith, University of Bristol, United Kingdom</b>
10.05 – 10.20	Maternal early-pregnancy glucose-insulin metabolism, fetal growth and adverse birth outcomes: The generation R study <b>Romy Gaillard, Erasmus University Medical Center, Netherlands</b>
10.20 – 10.35	Metabolic changes in response to an oral glucose tolerance test in 4,620 middle-aged individuals; 46y follow-up of the Northern Finland Birth Cohort 1966 <b>Qin Wang, University of Oulu, Finland</b>
10.35 – 11.10	The RECAP Preterm platform: the opportunities and challenges of bringing together data from European cohorts of children and adults born very preterm <b>Jennifer Zeitlin, French National Institute of Health and Medical Research, INSERM; France</b>
11.10 – 12.40	Lunch, Posters exhibition
<b>Session II</b>	Chair, Sylvain Sebert
12.40 – 13.15	Challenging Lifecourse Approaches and their Implications – “New Research Concepts” <b>Marjo-Riitta Järvelin, Imperial College London, United Kingdom and University of Oulu, Finland</b>
13.15 – 13.30	Harmonized Zika Birth Cohorts as a nucleus for multicentre birth cohorts in Latin America and the Caribbean <b>Thomas Jaenisch, Section Clinical Tropical Medicine, Heidelberg University Hospital, Denmark</b>
13.30 – 13.45	Antisocial and borderline personality disorders in the adult offspring of antenatally depressed mothers in the Northern Finland 1966 Birth Cohort: Relationship to parental severe mental disorders <b>Tiina Taka-Eilola, University of Oulu, Finland</b>
13.45 – 14.15	Coffee





- 14.15 – 14.50                    What studies of the NFBC have taught us about PCOS  
**Stephen Franks, Imperial College London, United Kingdom**
- 14.50 – 15.25                    Dispositional Compassion and Individual's Health  
**Mirka Hintsanen, University of Oulu, Finland**
- 15.25 – 16.00                    Improved register data for cohort studies  
**Mika Gissler, National Institute for Health and Welfare, University of Turku, Finland  
and Karolinska Institute, Sweden**
- 19.00 -                                Dinner, at restaurant Lasaretti





**Friday June 15<sup>th</sup>**

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09.00 – 9.30	Coffee
<b>Session I</b>	Chair, <b>Marjo-Riitta Järvelin</b>
9.30 – 10.05	Finnish large scale genomics studies: SUPER and FinnGen <b>Aarno Palotie, University of Helsinki, Finland and Harvard University, USA</b>
10.05 – 10.20	Continuous tracking of BMI from birth to adolescence reveals BMI acceleration during preschool age as critical risk factor for developing sustained obesity <b>Antje Körner, University of Leipzig, Germany</b>
10.20 – 10.55	Epigenetic Epidemiology: Insights from birth cohort and longitudinal studies <b>Caroline Relton, University of Bristol, United Kingdom</b>
10.55 – 11.10	Genome-wide association analysis on childhood body mass index reveals two new loci <b>Janine F Felix, Erasmus University Medical Center, Netherlands</b>
11.10 – 11.25	Genetic study of pubertal height growth shows that the tempo of pubertal growth is correlated with adult health <b>Diana Cousminer, Children’s Hospital of Philadelphia and University of Pennsylvania, USA</b>
11.25 – 11.40	A New Statistical Method to Estimate Maternal Genetic Effects on Perinatal Outcomes in Large Scale Genetic Studies <b>David M Evans, University of Queensland Diamantina Institute, University of Queensland, Brisbane, Australia, Integrative Epidemiology Unit, University of Bristol, Bristol, UK</b>
11.40 – 11.55	Genetic study of birth weight resolves maternal and fetal genetic effects and their relevance to later life disease <b>Robin N Beaumont, Institute of Biomedical and Clinical Science, University of Exeter, Exeter, UK</b>
11.55 – 12.05	Closing remarks, Juha Veijola

