

1st Danish International Conference on Personalised Medicine

24-25th October 2023
Moesgaard Museum
Aarhus

Day 1

8:30-9:00 Coffee and registration

9:00-9:15 **Opening of meeting** Anne-Mette Hvas, Dean at the Faculty of Health, Aarhus University, Denmark
Welcome remarks Anders Børglum, Managing Professor of the Personalised Medicine Network, Aarhus University, Denmark

SESSION I: "HUMAN DIVERSITY"

(Chair: Anders Børglum)

9:15-10:05 **Opening Keynote: Study of human diversity** Kári Stefánsson, deCode Genetics, Iceland

10:05-10:35 **Genetics of ADHD – risk loci and genetic overlap with other phenotypes** Ditte Demontis, Aarhus University, Denmark

10:35-10:50 **Systematic investigation of allelic regulatory activity of psychiatric disorder risk variants** Hyejung Won, University of North Carolina at Chapel Hill, NC, USA

10:50-11:10 Coffee with light refreshment, poster viewing and networking

SESSION II: "TOWARDS PERSONALISED PSYCHIATRY"

(Chairs: Doug Speed & Ole Köhler-Forsberg)

11:10-12:00 **Keynote: The potential and the barriers for genetic personalised medicine in psychiatry** Cathryn Lewis, Kings College London, United Kingdom

12:00-12:30 **Polygenic aspects of childhood neurodevelopmental disorders** Jakob Grove, Aarhus University, Denmark

12:30-12:40 **Flash talk:**
Polygenic liabilities and treatment trajectories in early-onset depression
(presenter: Jessica Mundy)

12:40-13:35 Lunch and networking

13:35-15:05 Poster session and coffee & cake

Day 1 (continued)

SESSION III: "DISEASE PROGRESSION AND PHENOTYPIC VARIATION"

(Chairs: Claus Gravholt & Camilla Blunk Brandt)

15:05-15:35	Deep learning approaches for analysis of population-wide disease progression data Søren Brunak, University of Copenhagen, Denmark
15:35-16:05	Expanding the phenotypic spectrum of calmodulinopathies Mette Nyegaard, Aalborg University, Denmark
16:05-16:35	Introducing a decision support tool - The Ischemic Heart Disease Algorithm - in clinical practice - a randomised clinical trial Henning Bundgaard, Rigshospitalet, Copenhagen, Denmark
16:35-16:55	Flash talks: Exploring the impact of BMI on cancer development (presenter: Johanne Ahrenfeldt) The information system, a unique work tool to optimize drug safety during pregnancy (presenter: Line Kolding og Jakob N. Henriksen)
17:30-20:00	Conference dinner/reception

Day 2

8:30-9:00 Coffee

SESSION IV: "ADVANCED STATISTICAL METHODS"

(Chairs: Liselotte Vogdrup Petersen & Bjarni J. Vilhjálmson)

9:00-9:30	Mendelian Randomisation with Directed Acyclic Graphs learning: Opportunities and pitfalls in personalised medicine Leonardo Bottolo, University of Cambridge, United Kingdom
9:30-10:00	Machine learning with clinical purpose Adam Hulman, Aarhus University, Denmark
10:00-10:20	Flash talks: LDAK-PBAT: A Novel Pathway-Based Analysis Tool for Decoding the Genetics of Complex Diseases (presenter: Takiy Berrandou) Unraveling the regulation mechanism of the human flippase ATP8B1 (presenter: Poul Nissen)
10:20-10:50	Coffee with light refreshment, poster viewing and networking

Day 2 (continued)

SESSION V: "EPIDEMIOLOGICAL STUDIES"

(Chairs: Uffe Birk Jensen & Hannah Chatwin)

10:50-11:40 **Keynote: Using genetic epidemiology to inform personalised medicine**
Per Magnus, Norwegian Institute of Public Health, Norway

11:40-12:10 **Early life exposures and pubertal development: results from the DNBC
Puberty cohort** Cecilia Ramlau-Hansen, Aarhus University, Denmark

12:10-13:10 Lunch and networking

SESSION VI: "ADVANCED TECHNOLOGIES IN CANCER RESEARCH"

(Chairs: Martin Bøgstød & Lars Dyrskjødt Andersen)

13:10-14:00 **Keynote: Data-driven and functional precision medicine for acute myeloid
leukemia and beyond** Olli Kallioniemi, SciLifeLab and Karolinska Institute,
Sweden

14:00-14:30 **The power of circulating tumor cells in Immuno-Oncology** Catherine
Panabieres, University Medical Centre of Montpellier, France

14:30-15:00 **T cell receptor landscape associate with metastasis in bladder cancer**
Nicolai Birkbak, Aarhus University, Denmark

15:00-15:30 Networking and coffee & cake

SESSION VII: "APPLIED PERSONALISED MEDICINE"

(Chairs: Deirdre Cronin Fenton & Mikkel Heide Schierup)

15:30-15:50 **Flash talks:**
**Social characteristics and adherence to adjuvant endocrine therapy in
breast cancer patients** (presenter: Julie Schmidt)
**Genetic variants of the serotonin transporter with functional and
pharmacological impact** (presenter: Steffen Sinning)

15:50-16:20 **Treatment decisions for metastatic cancer patient – implementation of
personalised medicine** Britt Elmedal Laursen, Aarhus University, Denmark

16:20-16:45 Closing remarks, poster & flash talk awards

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