Programme for Research Symposium

Developments in epidemiology and biomarker research
A life-course perspective

Time: Thursday March 21st 2019, start 10:00, end Friday March 22nd 2019 at 12:00 p.m.

Place: “Lilla Aulan” Lecture Hall, Jan Waldenströms gata 2-5, Skåne University Hospital (SUS), Malmö, Sweden

Organisers: The Strategic Research Area (SRA) Epidemiology for Health (EpiHealth) at Lund and Uppsala Universities in collaboration with OLINK Proteomics AB, Uppsala, Sweden

Symposium secretariat and enquiries: Ms. Camilla Key (+46 (0)40-33 23 01), mail: camilla.key@med.lu.se

Symposium details and final registration: https://www.olink.com/epihealth-2019/

Costs: Free registration with no fee. Travel and accommodation is covered for lecturers and chair persons, participants have to finance travel and accommodation themselves or by support from SRA EpiHealth or their universities. Registration is also mandatory for the March 21st evening buffet dinner!

Transport communications: Train station “Triangeln” is close to SUS, and it connects also with trains from the Copenhagen Airport. Airport buses from Sturup outside Malmö stop at “Södervärn” bus terminal, with 10 minutes’ walk to the hospital.

Posters: please send abstract for poster to Peter Nilsson (peter.nilsson@med.lu.se) no later than March 1st 2019. Best posters will be awarded with a poster prize.

Scientific Committee Chair

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Programme

Thursday 21st March

09:00 Registration and coffee

10:10 Welcome and introduction (Peter M Nilsson, SRA EpiHealth, Malmö, and Hanna Mann, OLINK Proteomics AB, Uppsala)

10:10 Session 1. Technological developments, Big Data, and bioinformatics
Chair: Lars Lind, Uppsala

A Systems biology/Multi-omics strategy to understand biology and drive precision medicine (AnnaLotta Schiller, Uppsala) – 10 min
Big Data and cohort collaboration (Johan Sundström, Uppsala) – 20 min
Value of pQTL studies to maximize understanding of biological mechanisms and create a foundation for Precision Medicine (Anders Målarstig, Stockholm) – 20 min
Opportunities and challenges with data analysis in biomarker research (Lina Hultin Rosenberg, Uppsala) – 20 min

State-of-the-Art 1: Biomarkers in cardiovascular research - An update 2019 (Lars Wallentin, Uppsala) – 30 min

12:00-13:00 LUNCH and posters

13:00 Session 2. Biomarker panel applications in cohorts
Chair: Jan Nilsson, Malmö

CVD biomarker panels in Uppsala cohorts and EpiHealth (Lars Lind, Uppsala) – 20 min
Biomarker discoveries in MDC (Gunnar Engström, Malmö) – 20 min
Biomarkers and drug development (Olle Melander, Malmö) – 20 min
Proteomics in the national post-myocardial infarction SWEDHEART-BIOBANK linked to national registers (David Erlinge, Lund) – 20 min
Biomarker discoveries in MPP (Martin Magnusson, Malmö) – 20 min
Biomarkers in a cohort from South Africa (Amra Jujic, Malmö) – 20 min

15:00 COFFEE and posters

15:30-17:00 Session 3: Early life programming of adult health and disease
Chair: Anna Rignell-Hybom, Lund

Update on the importance of early life programming (Peter M Nilsson, Malmö) – 20 min
The Medical Birth Register of Sweden (Karin Källén, Lund) – 20 min
Parent-of-origin effects and fetal programming for risk of diabetes (Rashmi Prasad) – 20 min
Stereotypic immune system development in newborn children (Petter Brodin, Stockholm) – 20 min
**Prematurity and adult health** (Kristina Sundquist, Malmö) – 20 min

17:00-17:25 Selected poster presentations (short oral communication)
Chair: Peter M Nilsson

17:25 Summary (Peter M Nilsson, Hanna Mann)

17:30 End of symposium

18:00-20:30 Buffet dinner at CRC, Malmö (pre-registration is mandatory)

**Friday 22nd March**

08:30-10:00 **Session 4: Gene-Nutrition and microbiota interaction**
Chair: Ulf Riserus, Uppsala

- **Microbiota in cardiometabolic disease** (Marju Ohro-Melander, Malmö) – 20 min
- **Diet-microbiota patterns in a population-based study** (Louise Brunkwall, Malmö) – 20 min
- **Novel Metabolome and Proteome derived biomarkers of type 2 diabetes and their association with food and lifestyle** (Rikard Landberg, Göteborg) – 20 min
- **Probiotics in Prevention of Allergy among Children - Insights from the ProPACT study** (Melanie Rae Simpson, Trondheim) – 20 min

10:00-10:30 COFFEE and posters

10:30-12:00 **Session 5. Precision medicine and biomarker use**
Chair: Karl Michaelsson, Uppsala

- **Mendelian Randomization analysis to assess causality in proteomics studies** (Tove Fall, Uppsala) – 20 min
- **Cancer discoveries and treatment targets** (Karin Jirström, Lund) – 20 min
- **The Danish experience** (Michael H Olsen, Odense) – 20 min

**State-of-the-Art 2: Drug discoveries built on precision medicine** (Mark Caulfield, London) – 30 min

12:00 End of symposium. Poster Prize. Summary and Farewell (Peter M Nilsson)

12:15 Lunch, grab and go

13:00-15:00 Meeting with the Board of SRA EpiHealth. Jan Waldenströms gata 15, Conference room, 5th floor, SUS, Malmö