

<p style="text-align: center;">Developments in epidemiology and biomarker research A life-course perspective</p>
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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.

Scientific Committee Chair

Peter M Nilsson, Professor,
Internal Medicine Research Group,
Director SRA EpiHealth,
Jan Waldenströms gata 15, 5th floor,
Skåne University Hospital,
S-205 02 Malmö,
Phone: +46-40-33 24 15, +46-704-50 34 56
Mail: peter.nilsson@med.lu.se

Preliminary 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 Mälarstig) – 20 min

Opportunities and challenges with data analysis in biomarker research (Markus Sällman-Almén, 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 SWEDEHEART-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, Malmö) – 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, Uppsala) – 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