

Unlocking Precision Health: From Molecular Insights to Clinical Impact in Complex Diseases

The 3rd GMS symposium on Complex Diseases

Date: 23 January 2026, 09:00 – 19:00

Venue: Operaterassen/Operahuset, Karl XII:s Torg 1, Stockholm

Program

09.00-09:30 **Registration**

09:30-09:40 **Welcome and conference opening:** Åsa Johansson, Craig Wheelock, Bo Jacobsson

Session 1: Chair Kristiina Tammimies

09:40-10:10 *Use of polygenic scores for disease prediction, biomarker discovery and trial emulation, Andrea Ganna, University of Helsinki, Finland*

10:10-10:30 *Genomic studies of disease and treatment outcomes in bipolar disorder, Lina Jonsson, Sahlgrenska Academy, University of Gothenburg*

10:30-11:00 **Coffee break**

Session 2: Chair Åsa Johansson

11:00-11:20 *Precision prevention of coronary artery disease, Olle Melander, Lund University and Skåne University Hospital*

11:20-11:40 *This sounds fantastic – but is it good value for money? Oskar Frisell, The Swedish Institute for Health Economics (IHE), Karolinska Institutet and Genomic Medicine Sweden*

11:40-12:10 **Short talks**

Bridging the gap(s) in subgrouping of obstructive lung diseases: Multi-modal data integration a path to precision medicine?, Åsa Wheelock, Karolinska Institutet

Risk stratification in Sjögren's disease - A precision medicine approach, Juliana Imgenberg, Uppsala University

Fetal genetics in pregnancy loss, Pol Sole Navais, Gothenburg University

The circulating blood proteome of childhood acute leukemia, Jessica Nordlund, Uppsala University

12:10-13:10 **Lunch**

Session 3: Chair Craig Wheelock

13:10-13:40 *Genetic subtypes of obesity – Dissecting mechanisms and translating insights*, Ruth Loos, University of Copenhagen, Denmark

13:40-14:00 *Data-driven insights into variant-to-function mechanisms for complex disease*, Tuuli Lappalainen, SciLifeLab, KTH and New York Genome Center

14:00-14:20 *Towards Precision Nutrition for Cardiometabolic Disease Prevention*, Rikard Landberg, Chalmers University of Technology

14:20-15:00 **Coffee break and group discussions**

Session 4: Chair Bo Jacobsson

15:00-15:20 Summary of group discussions

15:20-15:50 *Nightingale Metabolomics: a translational story from biobanks to clinical use at national-scale*, Peter Würtz, Nightingale Health, Finland

15:50-16:10 *National implementation of genomics and precision medicine*, Richard Rosenquist Brandell, Karolinska Institutet

16:10-16:55 Panel discussion: *How can we accelerate precision health for complex diseases?*

Panelists

Tuuli Lappalainen, SciLifeLab, KTH and New York Genome Center

Frida Lundmark, the Swedish Association of the Pharmaceutical Industry (LIF)

Olle Melander, Lund University and Skåne University Hospital

Richard Rosenquist Brandell, Karolinska Institutet

Peter Würtz, Nightingale Health

Moderator: Craig Wheelock

16:55-17:00 **Concluding remarks:** Åsa Johansson, Craig Wheelock, Bo Jacobsson

17:00-19:00 **Drinks, light food, mingle and poster presentations**