

## Future of Omics Conference - Nordic Station

4<sup>th</sup> November, 2024

### 10.00 Registration in KI BioMedicum (Solnavägen 9, Stockholm)

#### Microbiology section

10.15-10.30 Welcome speech

10.30-11.00 Mapping the human microbiome in individuals, cohorts and populations (Prof. Lars Engstrand, Director of CTMR, Chair of MMHP project)

11.00-11.30 Advancing genomics applications for enhanced public health surveillance (Dr. Maike Seifert, Karolinska Institutet)

11.30-12.00 The human gut microbiota in health and disease (Prof. Karsten Kristiansen, Copenhagen University, MMHP consortium member)

12.00-12.30 HELMI birth cohort study on early life microbiome (Anne Salonen, University of Helsinki, MMHP consortium member)

12.30-13.00 From Methods to Microbes: Navigating the Metagenomics investigation of Phage Populations in the infant Gut (Alise Ponsoero, Quadram Institute, UK & University of Helsinki)

#### **13.00-14.30 Lunch break**

#### Multi-omics section

14.30-15.00 Genetic drivers of heterogeneity in type 2 diabetes pathophysiology (Prof. Torben Hansen, Nova Nordisk Foundation, Center for Basic Metabolic Research, Copenhagen University)

15.00-15.30 Decipher Clinical Signatures of Gastrointestinal Tumors through Multi-Omics Big Data

15.30-16.00 Single-cell transcriptomics of the placenta: bridging the understanding of maternal conditions and offspring health (Prof. Qiaolin Deng, Stockholm University)

#### **16.00-16.20 Coffee break**

16.20-16.50 Genetic and molecular basis of nervous system disorders (Prof. Jans Mulder, Karolinska Institutet)

16.50-17.20 Exposing causal biomarkers for complex diseases using state-of-the-art proteogenomics (Prof. Xia Shen, Karolinska Institutet)

17.20-17.50 Past and Future Analyses in Forensic Human Identification (Prof. Marie Allen, Uppsala University)

#### **17.50-18.00 Walk to Karolinska Cancer Centre (Change venue location to Cancer Center Karolinska building)**

18.15-18:45 Unlocking new RNA insights with next-generation single-cell RNA-seq (Dr. Christoph Ziegenhain, CEO of Xpress Genomics)

18:45-19:15 Automated NGS total solution for cancer genomics profiling: from sample to report (Ms. Nancy Yang, BD Manager of Gene+)

#### **19:15-21.00 Buffer Dinner with lab tour**