



## 2<sup>nd</sup> Norwegian Symposium on Proteomics and Biological Mass Spectrometry

Thursday 23<sup>rd</sup> and Friday 24<sup>th</sup> May 2024, Holmen Fjordhotell

### Day 1, Thursday 23<sup>rd</sup> May

9:00-9:10 **Tuula Nyman** Introduction/welcome

#### Session I - Serum proteomics

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9:10-10:10 **Jochen Schwenk** (Human Protein Atlas, KTH, SciLifeLab - Serum Proteomics, Sweden)

Title: Molecular health perspectives from the circulating proteome

10:10-10:35 **Andreas Hober** (Translational Science & Experimental Medicine, AstraZeneca, Sweden)

Title: Assessment of a remote sampling device for in-situ dried plasma generation (*SCIEX sponsored talk*)

10:35-10:55 **Leon Reubsaet** (Dept. of Pharmacy, University of Oslo, Norway)

Title: Smart sampling: next-generation Dried Blood Spot samplers for LC-MS based protein analysis

10:55-11:15 **Coffee**

#### Session II – New technologies

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11:15-12:15 **Mike Filius** (Dept. of Bionanoscience, Delft University of Technology, the Netherlands)

Title: The emerging landscape of single-molecule protein sequencing

12:15-12:55 **Mikael Åberg** (Uppsala University, SciLifeLab - Affinity Proteomics, Sweden)

Title: Olink Explore through the lens of a non-profit academic institution

13:00-14:00 **Lunch**

#### Session III – MS-based proteomics - 1

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14:00-15:00 **Lukas Käll** (KTH, SciLifeLab, Sweden)

Title: Algorithmic developments for processing mass spectrometry-based proteomics data

15:00-15:30 **Sofie Lautrup** (Akershus University Hospital, Norway)

Title: The application of multi-omics combined with wet-lab techniques to explore novel mechanisms of AD

15:30-15:50 **Coffee**

15:50-16:10 **Christian Lentz** (Centre for New Antibacterial Strategies, University of Tromsø, Norway)

Title: Chemoproteomic identification of enzymes by activity-based protein profiling

16:10-16:30 **Hanne Røberg-Larsen** (Dept. of Chemistry, University of Oslo, Norway)

Title: Mass spectrometry-based analysis of organoids and organ-on-chip

16:30-19:00 **Leisure time**

19:00- **Dinner**

Day 2, Friday 24<sup>th</sup> May

## Session IV – Lipids and metabolomics

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**9:00-09:40**     **Katja Elgstøen** (Dept. of Medical Biochemistry, Oslo University Hospital, Norway)

Title: Global metabolomics in a clinical setting

**9:40-10:20**     **Lukáš Najdekr** (IMTM, Palacký University Olomouc, Czech Republic)

Title: Untargeted lipidomics as a tool for the determination of healthy ageing

**10:20-11:00**     **Jens Pahnke** (Dept. of Pathology, Oslo University Hospital, Norway)

Title: Automated sub-anatomical functional mapping of brain through deep-learning-multi segmentation-enhanced mass spectrometry imaging.

**11:00-11:20**     *Coffee*

## Session V – MS-based proteomics - 2

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**11:20-11:50**     **Live Hagen** (Microbial Ecology and Meta-Omics group, NMBU, Norway)

Title: Shining light on microbial dark matter through metaproteomics

**11:50-12:15**     **Alexey Chernobrovkin** (Pelago Bioscience, Sweden)

Title: Increasing throughput for profiling of compound-induced proteome thermal stability changes  
*(Thermo sponsored talk)*

**12:15-12:40**     **Evgeny Onishchenko** (Dept. of biological sciences, University of Bergen, Norway)

Title: Analyzing dynamics of protein metabolism using metabolic age

**12:40 -12:50**     Closing remarks

**13:00-14:00**     *Lunch and farewell*