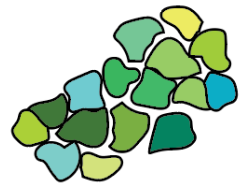
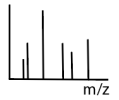


Spatial Omics

Minisymposium December 3rd



13:00 – 16:00 Auditoriet (Forskningsbygget – Radiumhospitalet)



Understanding cellular dynamics and function is essential for comprehending biological mechanisms in health and disease. The development of technologies capable of analyzing the proteome, genome, and transcriptome in a spatial and high-throughput manner is central to modern basic, translational, and clinical research. Spatial biology is increasingly recognized as essential for advancing life sciences, as it provides a comprehensive understanding of the complex architecture and dynamics of living tissues. For this reason, spatial omics technologies have been honored as Nature Method of the Year in 2021 and 2024 for Spatial Transcriptomics and Spatial Proteomics, respectively.

In this minisymposium we will introduce a novel spatial proteomics technique called 'Deep Visual Proteomics' and have local speakers presenting spatial omics techniques available and research done in Oslo.

Keynote speaker: *Florian Rosenberger*

"Deep Visual Proteomics: resolving metabolic disease mechanisms at single-cell resolution"

Bio: Dr. Florian Rosenberger is an Assistant Professor at Karolinska Institutet, where he leads the 'Proteomes of Metabolism' group. During his postdoctoral work with Matthias Mann, he developed single-cell Deep Visual Proteomics to map tissue architecture at the level of thousands of proteins with single-cell resolution by mass spectrometry. At KI, his group is now expanding this technology to investigate cell-type specificity in mitochondrial diseases

Local invited speakers:

- *Colin LaMont*, Dept. of Cancer Immunology, Institute for Cancer Research, Oslo University Hospital Radiumhospitalet: **"Tumor immune cell landscape of Mantle cell lymphoma"**
- *Espen S. Bækkevold*, Dept. of Pathology, Oslo University Hospital – Rikshospitalet: **"High-plex analysis of the tumor microenvironment in colorectal cancer using the Akoya PhenoCycler-fusion"**
- *Jorunn Stamnæs*, Dept. of Immunology, Oslo University Hospital - Rikshospitalet **"Spatial proteomics of archival FFPE biopsies to delineate mechanisms of immune-mediated intestinal remodeling"**

We have also recently secured funding to establish a **University of Oslo Network for Spatial Multi Omics which will be introduced, followed by brief core facility presentations showcasing spatial omics services.**

- *Tuula Nyman*, Proteomics Core Facility, Department of Immunology
- *Leonardo A. Meza-Zepeda*, Dept. of Core Facilities, Institute of Cancer Research
- *Stig Ove Bøe*, Advanced Light Microscopy Core Facility, Department of Microbiology



13:00-13:20 Welcome & core facility presentations
13:20-14:20 Florian Rosenberger
14:20-14:45 coffee break
14:45-15:10 Colin LaMont
15:10-15:35 Espen Bækkevold
15:35-16:00 Jorunn Stamnæs



National network of
Advanced Proteomics
Infrastructure

