



Symposium on Single Cell and Spatial Sequencing Technologies and Applications

Date: November 07, 2019

Time: From 9:00 to 15:00

***Venue: Eduard Biermann Auditoriet (Lakeside Lecture Theatres), Aarhus University
Bartholins Allé 3, 1252-204, 8000 Aarhus, Danmark***

Department of Biomedicine, Aarhus University and 10x Genomics welcomes researchers with an interest in single cell Gene Expression analysis and spatial transcriptomics.

Single cell sequencing has revolutionized life science research leading to a deeper understanding of biological processes in health and disease. Rapid technology advances are enabling large-scale projects for resolving single cell populations from 100s to millions of cells in a given study.

In this seminar we will introduce a combined workflow with optimized sample preparation and demonstrate a variety of single cell applications, including scientific presentations presented by guest speakers

Recent advances have progressed from Single Cell Genomics to encompass spatial profiling of Gene Expression. We will give a brief introduction to the latest single cell sequencing technologies, including Spatial Transcriptomics, all anchored with scientific examples.

Please sign up for the symposium

<https://events.au.dk/Symposium-SingleCellAndSpatialSequencingTechnologiesAndApplications>

As seats are limited, registration deadline is November 1.

Program:

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Chair by Yonglun Luo

9:00 – 9:35 “Endothelial Transcriptome Plasticity in Pathological Angiogenesis”

Katerina Rohlenova, PhD, Research fellow, VIB-KU Leuven Center for Cancer Biology

9:35 – 10:10 “A Single Cell Transcriptome Atlas of Murine Endothelial Cells”

Joanna Kalucka, Assistant Professor, AIAS Research Fellow, Aarhus University

10:10 – 10:45 "A Human Developmental Cell Atlas - A Swedish Effort within the Human Cell Atlas Initiative"

Michaela Asp, Ph.D. Scientific Coordinator, Lundeborg Lab, KTH, Science for Life Laboratory

10:45 – 11:00 Coffee break

11:00 – 11:35 The AU-SCOMICS Initiative and Novel Insights of Heart Failure Revealed by scRNA-Seq

Lin Lin, Associate Professor, Department of Biomedicine and Steno Diabetes Center Aarhus, Aarhus University

11:35 – 12:10 "Single Cell Sequencing to Investigate Human Brain Diseases"

Mykhailo Batiuk, Khodosevich laboratory, BRIC, University of Copenhagen

12:10 – 12:40 Lunch break (Free Sandwich provided)

12:40 – 13:15 “Cell Preparation for Gene Expression Analysis and Immune Profiling of Single Cells from Solid Tumors”

Torben Helledie, MSc, PhD, Miltenyi Biotec Norden

13:15 – 13:50 “Single Cell to Multi Omics to Spatial Transcriptomics”

Stephen Hague, 10x Genomics

13:50 – 15:00 Coffee break and panel discussion with the speakers