

10x Genomics Seminar | Oulu, Finland

From Single Cell to Spatial Transcriptomics with 10x Genomics

DATE

March 19, 2020

TIME

09:00—13:00

LOCATION

Seminar room 487B
4th floor Kieppi bldg
Aapistie 5A
90220 Oulu
Finland

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<https://10xgenomicsseminar-oulu.eventbrite.com>

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Description

Karolinska Institutet 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 workflow and optimized sample preparation as well as data analysis and demonstrate a variety of single cell applications.

Recent advances have progressed from Single Cell Genomics to encompass spatial profiling of Gene Expression. We will give a brief introduction to the latest 10X Genomics innovation from Spatial Transcriptomics all anchored with scientific examples, based on a selection of more than 500 published articles related to 10X Genomics solutions.

Speaker

Stephen Hague, PhD, 10X Genomics

Agenda

- Welcome and introduction: John Wahlgren, 10X Genomics
- Single Cell Applications part 1: Stephen Hague
 - 3' Digital Gene Expression
- Single Cell Applications part 2: Stephen Hague
 - 5' Digital Gene Expression with combined VDJ analysis of B and T cells
 - ATAC Seq
 - Feature Barcoding (Dextramers, CRISPR, Cell Surface Proteins)
- Introduction to Spatial Transcriptomics and Visium, Stephen Hague
- Discussion, Q&A, All