

SINGLE CELL OMICS SYMPOSIUM

Thursday March-13th, 2025, in Biomedicum Helsinki, Lecture hall 1

Course code: DPBM-161

9:00 OPENING WORDS

SESSION 1: **GENE REGULATORY NETWORKS**. Chair: Helena Kilpinen

9:05 JUDITH ZAUGG (University of Basel): Gene regulatory networks integrate genetic and epigenetic disease mechanisms in hematology

9:40 MARIKE KUIJER (Univ of Helsinki, Univ. of Oslo): Single-cell network modeling with SCORPION identifies regulatory drivers of colorectal cancer progression

10:05 Sponsor talk by 10x Genomics

10:10 - 10:40 COFFEE & POSTER SET-UP

SESSION 2: **SINGLE CELL OMICS OF PATHOLOGIES**. Chair: Merja Heinäniemi

10:40 HEIDI HAIKALA (Univ. of Helsinki, Tampere Univ.): Studying lung cancer treatment resistance using single cell methods

11:05 MINNA KAIKKONEN-MÄÄTTÄ (Univ. of Eastern Finland): Mapping the genetic basis of atherosclerosis using single cell genomics

11:30 Sponsor talk by BD Biosciences

11:35 Sponsor talk by PARSE Biosciences

11:40 - 13:00 SALAD BUFFET LUNCH

SESSION 3: **FROM CELLS TO TISSUES**. Chair: Saara Ollila

13:00 MARIA KASPER (Karolinska Institute): The Plasticity of Skin Cells: Key to Maintaining Tissue Function

13:35 ELISA MANIERI (Univ. of Vet. Medicine Vienna): From scRNAseq to cell function in crosstalk

14:00 Sponsor talk by Illumina

14:05 - 15:05 POSTERS & COFFEE

SESSION 4: **SPACE AND TIME**. Chair: Anna Vähärautio

15:05 Sponsor talk by Nanopore

15:10 GIOELE LA MANNO (EPFL): Spatiotemporal methods to chart the cell states of brain development

HiLIFE seminar:

15:45 HAGEN TILGNER (Weill Cornell): Brain isoform expression at single-cell resolution in (developmental) time and (anatomical) space - and in neurodegeneration

16:30 - 17:30 POSTER SESSION with sparkling & snacks

Register here by Feb-28:



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