

SINGLE CELL OMICS SYMPOSIUM

Oct-26 to 27, 2023, in Biomedicum Helsinki, Lecture hall 1, Helsinki

Day 1: Thursday, Oct-26

9:00 OPENING WORDS

SESSION 1: SPATIAL AND FUNCTIONAL ANALYSES. Chair: Minna Kaikkonen-Määttä

9:05 BRIAN CLEARY (Boston University College of Engineering): New technologies and algorithmic experimental designs to study intracellular and intercellular circuits

9:45 ALEXANDER AIVAZIDIS (Bayraktar lab, Wellcome Sanger Institute): Spatiotemporal modelling of neural cell fate trajectories

10:05 Sponsor talk: Scellex

10:20 - 10:50 COFFEE & POSTERS

SESSION 2: IMMUNOLOGY. Chair: Tapio Lönnberg

10:50 TUURE KINNUNEN (University of Eastern Finland): Single-cell multiomics to study human autoimmune diseases

11:10 PIA RANTAKARI (University of Turku): Uncovering the embryonic neutrophils

11:30 Sponsor talk: Illumina

11:45 - 13:00 LUNCH BREAK (ON YOUR OWN)

SESSION 3: COMPUTATIONAL BIOLOGY. Chair: Helena Kilpinen

13:00 OLIVER STEGLE (EMBL Heidelberg): TBA

13:40 MARK ROBINSON (University of Zurich): OMNIBENCHMARK: open continuous collaborative benchmarking of (single cell and spatial) computational biology

14:20 Sponsor talk: Nanostring

14:35 - 15:05 COFFEE & POSTERS

SESSION 4: DEVELOPMENT. Chair: Saara Ollila

15:05 KELLEY YAN (Columbia University): A revisionist view of intestinal stem cell dynamics

15:45 BARBARA TREUTLEIN (ETH Zurich): Understanding brain development and regeneration with single-cell technologies

16:25 MINI BREAK

16:35 - 18:00 POSTER SESSION with wine & snacks

SINGLE CELL OMICS SYMPOSIUM

Oct-26 to 27, 2023, in Biomedicum Helsinki, Lecture hall 1, Helsinki

Day 2: Friday, Oct-27

SESSION 5: CANCER I. Chair: Merja Heinäniemi

9:00 [SATU MUSTIOKI](#) (University of Helsinki):
Functional profiling of NK cell cytotoxicity in hematological cancers

9:20 [JESSICA NORDLUND](#) (Uppsala University):
Mapping individual drug responses in pediatric acute lymphoblastic leukemia using single-cell transcriptomics

10:00 Sponsor talk: 10xGenomics

10:15 - 10:45 COFFEE

SESSION 6: CANCER II. Chair: Anna Vähärautio

10:45 Sponsor talk: Cytosurge

11:00 [SAKARI VANHARANTA](#) (University of Helsinki):
High-resolution profiling of early renal carcinogenesis: what's injury got to do with it

11:20 [VALENTINA BOEVA](#) (ETH Zurich):
Discovery and characterization of shared transcriptional states across cancer patients from single-cell RNA sequencing data

12:00 [CELINE VALLOT](#) (Institut Curie):
Mechanisms of cell plasticity in breast cancer

12:40 CLOSING WORDS

Venue: Biomedicum Helsinki 1, Haartmaninkatu 8, Helsinki, Finland. Talks will be held in **Lecture hall 1** (C wing in the P floor), with posters and sponsor exhibitions outside the lecture hall.

Symposium is part of the Single Cell Course week 2023 with hands-on wet-lab and data-analysis courses for students.

Symposium is sponsored by: Biocenter Finland, DPBM, Illumina, 10xGenomics, Scellex, Cytosurge, Nanostring, Singleron, Becton Dickinson, Parse Biosciences, Element Biosciences.

Symposium website:



Organising team: Anna Vähärautio, Pirkko Mattila, Saara Ollila, Helena Kilpinen, Kati Donner, Eliisa Kekäläinen, Minna Kaikkonen-Määttä, Merja Heinäniemi, Virpi Ahola, Asta Laiho, Tapio Lönnberg, Laura Elo, Eija Korpelainen.



illumina®

10x
GENOMICS®

SCELLEX
single cell solutions

CYTOSURGE®

BF
Biocenter Finland