

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 by Päivi Saavalainen

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 by Vivek Mishra

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

SESSION 3: DEVELOPMENT. Chair: Saara Ollila

13:00 KELLEY YAN (Columbia University): A revisionist view of intestinal stem cell dynamics

13:40 JONAS FLECK (Treutlein lab, ETH Zurich): Understanding brain development and disease with single-cell multi-omics

14:20 Sponsor talk: Nanostring by Rudy van Eijsden

14:35 - 15:05 COFFEE & POSTERS

SESSION 4: COMPUTATIONAL BIOLOGY. Chair: Helena Kilpinen

15:05 MARK ROBINSON (University of Zurich): OMNIBENCHMARK: open continuous collaborative benchmarking of (single cell and spatial) computational biology

15:45 OLIVER STEGLE (EMBL Heidelberg): From genotype to phenotype with single-cell resolution

16:25 MINI BREAK

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

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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 by Koen De Gelas

10:15 - 10:45 COFFEE

SESSION 6: CANCER II. Chair: Anna Vähärautio

10:45 Sponsor talk: Cytosurge by Tamás Gerecsei

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

11:20 MERJA HEINÄNIEMI (University of Eastern Finland):
Cell state dynamics and malignant transformation in acute lymphoblastic leukemia

11:40 VALENTINA BOEVA (ETH Zurich):
Discovery and characterization of shared transcriptional states across cancer patients from single-cell RNA sequencing data

12:20 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:



SCAN ME

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.



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