

CellX Single Cell and Spatial Omics Meeting 2023



June 22, Aarhus, Denmark

The nation-wide roadmap infrastructure **CellX** will host the 2023 Single Cell and Spatial Omics meeting on 22nd June. This meeting aims to bring together a community interested in applying the CellX cutting-edge technologies, to discuss technological breakthroughs in single-cell and spatial multi-omics analysis, and to strengthen the single-cell and spatial-omics research in Denmark. It will be a great opportunity to learn, network and establish new collaborations.

Time / Date: 10:00 – 18:00, June 22, Aarhus

Venue: 1250-101 Foyer (Poster session and networking)

1250-304 Per Kirkeby Søauditorierne

Aarhus University, Aarhus 8000, Denmark

1. Organizing committee

Søren Riis Paludan, Jørgen Kjems, Yonglun Luo (Alun), Ermelinda Porpiglia, Lei Cheng

2. Meeting Program

9:00– 10:00 Registration and breakfast

10:00 – 10:10 Welcome speech (CellX yearly update)

Section 1 Morning session

Chair: Ermelinda Porpiglia

10:10 – 10:45 Keynote talk

Nikolaus Rajewsky (Max-Delbrück-Center for Molecular Medicine, Berlin)

Talk title: Spatial omics in 3D

10:45 – 11:15 Invited talk

Denis Schapiro* (Heidelberg University Hospital, Heidelberg)

Talk title: From oncology to cardiology: Overview of computational tools for spatial omics analysis

11:15 – 11:25 Short talk 1

Lasse Sommer Kristensen (Aarhus University, Aarhus)

Talk title: Spatial molecular imaging of the tumor microenvironment at the invasive front of colon adenocarcinomas

11:25 – 11:35 Short talk 2

Malte Paulsen (Copenhagen University, Copenhagen)
Talk title: High-speed fluorescence image-enabled cell sorting

11:35 – 11:45 Short talk 3

Charlotte Christie Petersen (Aarhus University, Aarhus)
Talk title: Sorting single cells from a heterogenous population

11:45 – 12:00 Technology yearly update (Flash talks Company)

12:00 – 13:00 Lunch break and networking (Poster session)

Section 2 Afternoon session 01

Chair: Lei Cheng

13:00 – 13:30 Invited talk

Erwin M. Schoof (Technical University of Denmark, Copenhagen)
Talk title: SCP-MS for next-generation experimental hematopoiesis

13:30 – 14:00 Invited talk

Febe van Maldegem (Amsterdam UMC, Amsterdam)
Talk title: Using cellular neighbourhoods to identify therapeutic strategies in non-small cell lung cancer

14:00 – 14:30 Invited talk

Oliver Klein (BIH Center for Regenerative Therapies (BCRT), Berlin)
Talk title: When images are talking to us - Imaging Mass spectrometry in clinical translational research

14:30 – 14:40 Short talk 4

Stig Henrik Andersen (Aarhus University, Aarhus)
Talk title: Mapping niche dynamics at single-cell resolution to boost the regenerative potential of aged skeletal muscle

14:40 – 15:10 Coffee break

Section 3 Afternoon session 02

Chair: Yonglun Luo (Alun)

15:10 – 15:40 Invited talk

Christopher Heje Grønbech (Copenhagen University, Copenhagen)
Talk title: Hierarchical variational autoencoders (VAEs) for scRNA-seq data

15:40 – 16:10 Invited talk

Smita Krishnaswamy* (Yale University, New Haven)

Talk title: Geometric Integration of Spatial and Genomic Signals in Single Cell Analysis

16:10 – 16:20 Short talk 5

Xiangning Ding (Aarhus University, Aarhus)

Talk title: Deciphering single-cell transcriptome reveals key regulator in immune response against HSV-1 infection in mouse brainstem

16:20 – 16:30 Short talk 6

Thomas Kim (Aarhus University, Aarhus)

Talk title: Hypothalamus Developmental Database (HyDD) project

16:30 – 16:40 Short talk 7

Faezeh Darki (Aalborg University, Aalborg)

Talk title: Study of molecular heterogeneity of infiltrating endometriosis lesions using spatially resolved transcriptomics

16:40 – 16:50 Short talk 8

Johanna Sergiadou (10X genomics, Leiden)

Talk title: See biology in new ways: Access the full richness of biological complexity with single cell and spatial multiomics

16:50 – 17:00 Closing remarks

Søren Riis Paludan (CellX Chair, Aarhus University, Aarhus)

17:00 – 18:00 Networking event (Soda, beer, snacks and network)

18:30 – 21:30 Event dinner (Matematisk Kantine, 3 course buffet menu, incl drink)

(*ZOOM presentations)

3. Practical information

Where to find Søauditorierne AU:



Parking:

Please request for a temporary parking registration before arrival

Travel information:

Nearby airports:

Aarhus airport, Billund airport.

From Aarhus central station:

Universitetsparken

Tram: L2. Bus line: A1, 16/18/100/123.

We kindly thank the following sponsors for our meeting this year.



BD

biotechne®

