PROGRAM | THURSDAY IO OCTOBER

08:30 - 09:00 Registration & coffee

09:00 - 09:05 Welcome

Session 1

Hall: Promotiezaal

SINGLE CELL SEQUENCING AND CELL DIVERSITY

Chair: Carlo Sala Frigerio

09:05 - 09:55 keynote	Human brain development from single-cell transcriptomes Sten Linnarsson, <i>Karolinska Institutet, SE</i>
09:55 - 10:30	Single-cell multi-omics of the <i>Drosophila</i> brain and retina Stein Aerts, VIB-KU Leuven Center for Brain & Disease Research, BE
10:30 - 11:00	Coffee break
11:00 - 11:35	Heterogeneity of <i>Drosophila</i> Dopaminergic Neurons Scott Waddell , <i>University of Oxford</i> , <i>UK</i>
11:35 - 12:10	Cell types of adult mouse cortex and hippocampus Bosiljka Tasic, Allen Institute for Brain Science, US
12:10 - 12:45	Reconstructing great ape cerebral organoids development using single-cell genomics Barbara Treutlein, ETH Zürich, CH

12:45 - 13:30 Lunch

13:30 - 14:30 Poster Session

Session 2 Hall: Promotiezaal

SPATIAL TRANSCRIPTOMICS

Chair: Stein Aerts

14:30 - 15:05	Spatial data driven transcriptomics analysis of brain and neurological disease Joakim Lundeberg, SciLifeLab, KTH Royal Institute of Technology, SE
15:05 - 15:40	Integrative single-cell RNA and chromatin analysis of human brain Kun Zhang , <i>University of California, US</i>
15:40 - 16:15	In situ RNA sequencing reveals RNA-protein binding with sub-cellular resolution Je Hyuk Lee, <i>Cold Spring Harbor Laboratory, US</i>
16:15 - 16:40	A spatial atlas of inhibitory cell types in mouse hippocampus CA1 Xiaoyan Qian, <i>Stockholm University & Cartana, SE</i>
16:40 - 16:45	Sponsored talk: Quantifying Gene Expression in Space Christian Korfhage , <i>Qiagen</i> , <i>DE</i>
16:45 - 17:15	Coffee break

Session :

17:15 - 17:50

Hall: Promotiezaal

NEW DEVELOPMENTS IN TECHNOLOGY

Chair: Sebastian Munck

	Rahul Satija, New York Genome Center & NYU, US
17:50 - 18:25	An integrated omics approach provides a detailed view on the molecular landscape of the brain Jan Mulder, <i>Karolinska Institutet, SE</i>
18:25 - 19:00	Reception

Comprehensive integration of single cell data

19:00 - 20:00 Guided tour to the conference dinner
20:00 - 22:30 Conference dinner @ The Faculty Club

PROGRAM | FRIDAY || OCTOBER

08:30 - 09:00 Coffee

Session 4	Hall: Promotiezaal	Session 4	Hall: Promotiezaal	
CNS DISEASE	Chairs: Roosmarijn Vandenbroucke & Carlo Sala Frigerio	CNS DISEASE	2 Chairs: Roosmarijn Vandenbroucke & Carlo Sala Frigerio	
09:00 - 09:50 keynote	The power of ONE: Immunology in the age of single cell genomics Ido Amit, Weizmann Institute of Science, IL	14:15 - 14:50	Spatial and temporal transcriptomics reveal microglia-astroglia crosstalk in the amyloid-β plaque cell niche of Alzheimer's disease Wei-Ting Chen, VIB-KU Leuven Center for Brain & Disease Research, BE	
09:50 - 10:25	Genomic mosaicism in the normal and Alzheimer's disease brain Jerold Chun, Sanford Burnham Prebys Medical Discovery Institute, US	14:50 - 15:05	Selected Talk: Mass cytometry analysis of aging brain in the context of cognitive decline	
10:25 - 10:55	Coffee break		Marissa Schafer, Mayo Clinic, US	
10:55 - 11:30	Single-cell transcriptomic analysis of Alzheimer's disease Hansruedi Mathys , <i>Picower Institute for Learning and Memory</i> ,	15:05 - 15:35	Coffee break	
	Massachusetts Institute of Technology, US	Session 5	Hall: Promotiezaal	
11:30 - 12:05	Somatic mutations in synucleinopathies (Parkinson's disease and Multiple System Atrophy)	Session S		
	Christos Proukakis, UCL Queen Square Institute of Neurology, University College London, UK	CONNECTION	CONNECTIONS AND ACTIVITY Chair: Aya Takeoka	
12:05 - 12:20	Selected Talk: A human single cell atlas of the substantia nigra reveals novel cell specific pathways associated with the genetic risks of Parkinson's disease	15:35 - 16:10	The Janelia MouseLight Project: A platform for brain-wide reconstructions and molecular characterization of individual neurons in the mouse brain Jayaram Chandrashekar , HHMI Janelia Research Campus, US	
	Viola Volpato, Cardiff University, UK	16:10 - 16:25	Selected Talk: Ventral tegmental area somatostatin-expressing neuron subtypes revealed by PatchSeq method Elina Nagaeva, University of Helsinki, Fl	
12:20 - 13:15	Lunch			
13:15 - 14:15	Poster Session	16:25 - 17:00	Neuronal circuits of thermal perception James Poulet, Max Delbrück Center (MDC), Berlin, DE	
		17:00 - 17:35	Towards a brain architecture for visual behavior selection Gwyneth Card , HHMI Janelia Research Campus, US	
		17:35 - 17:45	Poster prize ceremony and closing remarks	

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