Session 1  
**SINGLE CELL SEQUENCING AND CELL DIVERSITY**  
Chair: Carlo Sala Frigerio

09:05 - 09:55  
Human brain development from single-cell transcriptomes  
**Sten Linnarsson**, Karolinska Institutet, SE

09:55 - 10:30  
Single-cell multi-omics of the *Drosophila* 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 *Drosophila* Dopaminergic Neurons  
**Scott Waddell**, University of Oxford, UK

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

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**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**, University of California, US

15:40 - 16:15  
In situ RNA sequencing reveals RNA-protein binding with sub-cellular resolution  
**Je Hyuk Lee**, Cold Spring Harbor Laboratory, US

16:15 - 16:40  
A spatial atlas of inhibitory cell types in mouse hippocampus CA1  
**Xiaoyan Qian**, Stockholm University & Cartana, SE

16:40 - 16:45  
Sponsored talk: Quantifying Gene Expression in Space  
**Christian Korfhage**, Qiagen, DE

16:45 - 17:15  
Coffee break

17:15 - 17:50  
Comprehensive integration of single cell data  
**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**, Karolinska Institutet, SE

18:25 - 19:00  
Reception

19:00 - 20:00  
Guided tour to the conference dinner

20:00 - 22:30  
Conference dinner @ The Faculty Club
08:30 - 09:00  Coffee

Session 4  Hall: Promotiezaal

CNS DISEASE 2  Chairs: Roosmarijn Vandenbroucke & Carlo Sala Frigerio

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

14:50 - 15:05  Selected Talk: Mass cytometry analysis of aging brain in the context of cognitive decline
Marissa Schafer, Mayo Clinic, US

15:05 - 15:35  Coffee break

Session 5  Hall: Promotiezaal

CONNECTIONS AND ACTIVITY  Chair: Aya Takeoka

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

16:10 - 16:25  Selected Talk: Ventral tegmental area somatostatin-expressing neuron subtypes revealed by PatchSeq method
Elina Nagaeva, University of Helsinki, FI

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