Epigenetics in the Nervous System: Development and Disease

October 1-3, 2018
Stockholm, Sweden

Conference Program

Monday, October 1

15:00 – 16:00 Registration

16:00 Welcome

16:00 – 16:35 Hongjun Song (Perelman School of Medicine, US)
Epigenetic and epitranscriptomic regulation of neurogenesis

16:35 – 17:10 Magdalena Götz (Ludwig-Maximilians-Universität München, Germany)
Mechanisms of direct neuronal reprogramming

17:10 – 17:15 Abcam

17:15 – 19:15 Poster session I and drinks reception

Tuesday, October 2

09:00 – 09:35 Anne Schaefer (Icahn School of Medicine at Mount Sinai, US)
Epigenetic control of brain region-specific microglia specification

09:35 – 09:55 Madeleine Larrosa (Max Delbrück Centrum, Germany)
Insm1 promotes neurogenesis by repressing the neural progenitor program and Notch signaling

09:55 – 10:15 Stavros Taraviras (University of Patras, Greece)
GemC1/Lynkeas is instructing ependymal fate in neural stem cells

Break

10:45 – 11:05 Michael Lattke (The Francis Crick Institute, UK)
Transcriptional and epigenetic mechanisms regulating maturation and neurogenic potential of astrocytes

11:05 – 11:25 Sarah Moyon (ASRC CUNY, US)
DNA hydroxymethylation in adult oligodendrocyte progenitor cells during remyelination and in aging

11:25 – 12:00 Gonçalo Castelo-Branco (Karolinska Institute, Sweden)
Transcriptional and epigenetic states of oligodendroglia in development and disease: insight from single cell omics

Lunch

13:15 – 13:50 Jonathan Mill (University of Exeter, UK)
Epigenetic trajectories to neuropsychiatric disease

13:50 – 14:10 Julia Schulze-Hentrich (University of Tübingen, Germany)
Plasticity of the epigenome under environmental factors in the pathogenesis of Parkinson's disease

14:10 – 14:45 Alon Chen (Max Planck Institute of Psychiatry, Germany)
The role of microRNA in regulating the central stress response and stress-linked psychopathologies

Break

15:15 – 15:35 Lasse Sinkkonen (University of Luxembourg, Luxembourg)
The Parkinson's disease patients' genetic background complements LRRK2-G2019S pathogenicity in human neuroepithelial stem cells and is accompanied by changes in their core regulatory circuit genes

15:35 – 15:55 Emmanuelle Vire (University College London, UK)
EWAS in prion diseases

15:55 – 16:55 **Keynote:** Li-Huei Tsai (Massachusetts Institute of Technology, US)
Transcriptomic and epigenomic signatures of Alzheimer's disease

17:00 – 19:00 Poster session II and drinks reception

19:00 Walk/transfer to conference social

19:30 Conference social

Wednesday, October 3

09:00 – 09:35 Antonella Riccio (University College London, UK)
A novel class of neuronal enhancers

09:35 – 09:55 Eva D'haene (Center for Medical Genetics Ghent, Belgium)
A neuronal enhancer network upstream of MEF2C is compromised in patients with Rett-like characteristics

09:55 – 10:15 TBA

Break

11:00 – 11:35 Warren Winick-Ng (Max Delbrück-Center for Molecular Medicine, Germany)
Genome architecture mapping of rare cell types in the brain

11:35 – 11:55 Boyan Bonev (Helmholtz Zentrum München, Germany)
Multiscale 3D genome rewiring during neural development

11:55 – 12:15 Alessandro Bonetti (RIKEN and Karolinska Institute, Sweden)
RADICL-seq identifies genome-wide RNA-chromatin interactions

Lunch

13:15 – 13:50 Filippo Rijli (Friedrich Miescher Institute for Biomedical Research, Switzerland)
Chromatin regulation in somatosensory circuit development

13:50 – 14:10 Albert Basson (King's College London, UK)
Non-monotonic dysregulation of gene expression and brain growth in mice deficient for the autism-associated chromatin remodeller CHD8

14:10 – 14:30 TBA

14:30 – 15:05 Robert Zinzen (Max Delbrück-Center for Molecular Medicine, Germany)
Early patterning of the fly embryo and its neurogenic ectoderm - from primordia to complex tissues

15:05 Close