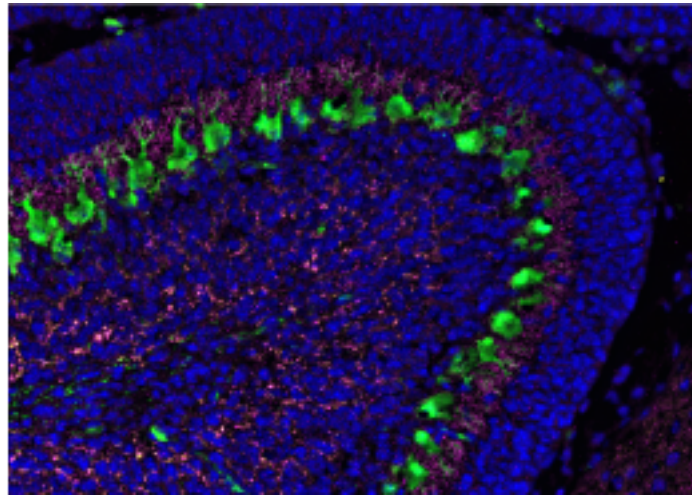


Cerebellar development and disease at single-cell resolution



Wednesday, 11 September 2024 - Friday, 13 September 2024

Heidelberg Academy of Science

Scientific Program

Planned program and time schedule

Day 1. Wed, Sept 11

12.00-14.00 h arrival / check-in / snacks

Welcome and Session 1: Normal cerebellar development

14.00-14.15 h Welcome: Simone Mayer/Lena Kutscher

14.15-15.00 h **Mary Beth Hatten**, *The Rockefeller University, USA*: Molecular Control of Cerebellar Circuit Formation

15.00-15.45 h **Alex Joyner**, *Memorial Sloan Kettering Cancer Center, USA*: Functional implications of spatially defined molecular subclasses of cerebellar excitatory neurons

15.45-16.15 h Coffee break

16.15-17.00 h **Sumru Bayin**, *University of Cambridge; Gurdon Institute, UK*: Unraveling mechanisms of cerebellum development and regeneration

17.00-17.20 h *Talk chosen from abstracts*

17.20-17.30 h Poster flash talks

17.30-19.00 h Poster session

Day 2. Thur, Sept 12

Session 2: Transcriptional control of cerebellar development

09.00-09.45 h **Kathy Millen**, *Seattle Children's Hospital, USA*: A human-centric view of cerebellar development is required to understand human cerebellar disease

09.45-10.30 h **Mari Sepp**, *University of Heidelberg, DE*: Cellular Development of the Mammalian Cerebellum through an Evolutionary Lens

10.30-11.00 h Coffee break

11.00-11:45 h **James Li**, *University of Connecticut, USA*: Single cell and spatial expression profiling to decipher the parcellation of the cerebellar cortex

11.45-13.15 h Lunch

13.15-14.00 h **Myron Evans**, *Seattle Children's Hospital, USA*: Epigenetic regulation of cerebellar development and tumorigenesis

14.00-14.20 h *Talk chosen from abstracts*

14.20-14.30 h Poster flash talks

14.30-16.00 h Poster session

16.15-17.30 h City tour

Day 3. Fri, Sept 13

Session 3: Models of cerebellar development and disease

09.00-09.45 h **Giorgia Quadrato**, *University of Southern California, USA*: Modeling human cerebellar development and disease at single cell resolution with organoids

09.45-10.30 h **Simone Mayer**, *Karlsruhe Institute of Technology, DE*: Cerebellar organoids as a model for pontocerebellar hypoplasia

10.30-11.00 h Coffee break

11.00-11.45 h **Vincent Cantagrel**, *Institut Imagine, FR*: Modeling human cerebellar development and malformations using cerebellar organoids

11.45-12.00 h *Talk chosen from abstracts*

12.00-12.15 h *Talk chosen from abstracts*

12.15-13.15 h Lunch

13.15-14.00 h **Esther Becker**, *University of Oxford, UK*: Modelling cerebellar diseases using iPSC-derived organoid models

14.00-14.45 h **Teresa Silva**, *University College London, UK*: Investigating trisomy 21-associated cerebellar developmental alterations using human cerebellar organoids

14.45-15.15 h Coffee break

15.15-16.00 h **Lena Kutscher**, *German Cancer Research Center, DE*: Neurodevelopmental principles underlying pediatric brain cancer

16.00-16.45 h **Roy Sillitoe**, *Baylor College of Medicine, USA*: Synaptic origins of cerebellar disease

16.45-17.15 h Break

17.15-18.30 h Final discussion

19.30 h **Conference dinner for all participants**, Kulturbrauerei Heidelberg