

## Program

Event website: <https://indico.dkfz.de/e/cerebellum>

Location: Heidelberg Academy of Science, Karlstraße 4, 69117 Heidelberg

### Day 1. Wed, Sept 11

12.00-14.00 h arrival / check-in / light snacks

14.00 h **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**: Molecular Models of Cerebellar Development

15.00-15.45 h **Alex Joyner**: Functional implications of molecular subclasses of cerebellar excitatory neurons

15.45-16.15 h Coffee break

16.15-17.00 h **Sumru Bayin**: Unraveling mechanisms of cerebellum development and regeneration

17.00-17.20 h *Selected Abstract*: **Daniel Goldowitz**: Cerebellar development from the perspective of Pax6 and gene regulation

17.30-18.30 h Group Picture and Welcome reception

## Day 2. Thur, Sept 12

09.00 h **Session 2: Transcriptional control of cerebellar development**  
(Chairs: **Theresa Kagermeier**, Karlsruhe Institute of Technology;  
**Frederik Arnskoetter**, German Cancer Research Center)

09.00-09.45 h **Kathy Millen**: A human-centric view of cerebellar development

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

10.30-11.00 h Coffee break

11.00-11:45 h **Justus Kobschull**: Evolution of the cerebellar nuclei

11.45-13.15 h Lunch

13.15-14.00 h **James Li**: Single cell and spatial expression profiling to decipher the parcellation of the cerebellar cortex

14.00-14.20 h *Selected Abstract*: **Valentina Cerrato**: A single cell atlas to unveil the diversity of mouse cerebellar astrocytes: insights into their molecular identities, development, and functions

14.20-15.00 h Poster flash talks, 90-seconds

1. Parthiv Haldipur
2. Giacomo Turrini
3. Tetsuya Yamada
4. Manjari Anant
5. Beatrice Durand
6. Nicole Amberg
7. Benjamin Lepennetier
8. Tamiris Borges Da Silva
9. Davide Aprile
10. Theresa Kagermeier
11. Luca Tiberi
12. Chris Meulenbroeks
13. Alicia Eckhardt
14. Srijita Banerjee
15. Bertrand Duvillie

15.00-17.00 h Poster session, with coffee and cake

17.30h City tour for those who signed up

## Day 3. Fri, Sept 13

09.00 h **Session 3: Models of cerebellar development and disease**

(Chairs: **Luca Tiberi**, University of Trento;

**Nicole Amberg**, Medical University of Vienna)

09.00-09.45 h **Giorgia Quadrato**: Modeling human cerebellar development and disease at single cell resolution with organoids

09.45-10.30 h **Simone Mayer**: Cerebellar organoids as a model for pontocerebellar hypoplasia

10.30-11.00 h Coffee break

11.00-11.45 h **Vincent Cantagrel and Marion Coolen**: Modeling human cerebellar development and malformations using cerebellar organoids

11.45-12.05 h *Selected Abstract*: **Christin Schmidt**: Chromosome 17p13 deletion in human cerebellar development and Group 4 medulloblastoma oncogenesis

12.05-13.15 h Lunch

13.15-14.00 h **Esther Becker**: Modelling cerebellar diseases using iPSC-derived organoid models

14.00-14.45 h **Teresa Silva**: 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**: Neurodevelopmental principles underlying pediatric brain cancer

16.00-16.45 h **Myron Evans**: Epigenetic regulation of cerebellar development and tumorigenesis

16.45-17.15 h Break

17.15-18.30 h Final discussion

19.30 h Conference dinner for all participants, **Wirtshaus „Zum Seppi“**, Hauptstraße 213