University of Zurich[UZH]

URPP Adaptive Brain Circuits in Development and Learning (AdaBD)

4th Symposium of the URPP AdaBD

Networks at the University of Zurich

Wednesday, January 25, 2023

Location

Häldeliweg, HAH-E-11
University of Zurich
Häldeliweg 2
8044 Zürich

Program

11:00 **Welcome, Information and Updates from the Steering Committee Presentation of the URPP AdaBD**
Esther Stoeckli & Fritjof Helmchen, AdaBD Directors

11:15 **Short presentation of guest networks**
URPP Innovative Therapies in Rare Diseases (ITINERARE)
Prof. Dr. Janine Reichenbach, ITINERARE Director
Institute for Regenerative Medicine, UZH

Developmental Science Network Zurich (DSN-ZH)
Prof. Dr. Moritz Daum, Chair of the Steering Committee DSN-ZH
Jacobs Center for Productive Youth Development, UZH

NCCR Evolving Language
Prof. Dr. Richard Hahnloser, Member of the Steering Committee NCCR Evolving Language
Institute of Neuroinformatics, UZH/ETHZ

12:00 **Lunch and Poster Session**

13:30 **Guest lecture**
Reinforcement Learning of Birdsong
Prof. Dr. Richard Hahnloser, Institute of Neuroinformatics, UZH/ETHZ, NCCR Evolving Language

14:00 **Short oral presentations of advanced AdaBD projects**
Modelling internally driven cortical dynamics with artificial networks
Lucas Pompe, Institute of Neuroinformatics, UZH/ETHZ

The impact of Cajal-Retzius cell death on the development of the cortical circuit
Angeliki Damilou, Brain Research Institute, UZH

14:30 **Coffee Break and Poster session**

15:00 **Guest lectures**

Education of students with special educational needs - what matters?
Prof. Dr. Elisabeth Moser, Institute of Education, UZH, DSN-ZH

Healthy Aging: The Role of Motivation
Prof. Dr. Alexandra Freund, Department of Psychology, UZH, DSN-ZH

15:45 **Short oral presentations of advanced AdaBD projects**

Neurodevelopmental trajectories of language processing in children
Sarah di Pietro, Department of Child and Adolescent Psychiatry, UZH

The effect of early childhood and in-utero trauma on brain development and life outcomes: Large-scale evidence from the UK Biobank
Gökhan Aydogan, Zurich Center for Neuroeconomics, UZH

16:15 **Guest lecture**

Correcting genetic diseases by in vivo genome editing
Prof. Dr. Gerald Schwank, Institute of Pharmacology and Toxicology, URPP ITINERARE

16:45 **Discussion and Concluding remarks**

17:00 **Farewell Apéro**