

ZNZ PhD Retreat 19, Clinic Valens 23 - 25 May 2019

Program

Thursday, 23 May

Until 16:00	Check-in at Hotel Schloss Ragaz
16:30	Two extra buses in front of Tamina Therme* to Clinic Valens
17:00 – 19:00	Short Talks on PhD Research Projects, Part I , short break/drinks at 18:00, 7 talks
19:00 – 20:00	Neurorehabilitation: Challenges and open questions Plenary Talk by Dr. Roman Gonzenbach, Clinic Valens. Welcome by Prof. Jürg Kesselring
20:00	Dinner (Hotelhalle)
22:30	Buses leaving Clinic Valens to Tamina Therme

Friday, 24 May

08:30	Two extra buses in front of Tamina Therme to Clinic Valens
09:00 – 12:00	Short Talks on PhD Research Projects, Part II , coffee break at 10:15, 10 talks
12:00 – 13:00	Patient Presentations by Dr. Roman Gonzenbach
13:00 – 14:15	Lunch Buffet (Restaurant Quellweg)
14:15 – 15:00	Guided Tour through the Neurorehabilitation Clinic
15:00 – 15:45	The changing perspectives of neuroimmunological disease research Plenary Talk by Prof. Hans Lassmann, Medical University of Vienna
15:45 – 18:00	Poster Session , coffee at 16:00, 39 posters
18:00	Buses leaving Clinic Valens to Tamina Therme
19:30	Buses leaving for Torkel dinner from Tamina Therme

Saturday, 25 May

	Checkout at Hotel Schloss Ragaz after breakfast
08:30	Two extra buses in front of Tamina Therme to Clinic Valens
09:00 – 11:45	Short Talks on PhD Research Projects, Part III , coffee at 10:30, 9 talks
11:45 – 12:15	Feedback on the ZNZ PhD Program in Neuroscience
12:15 – 13:00	Listening to the brain in action: Functional optoacoustic neuro-tomography Plenary talk by Prof. Daniel Razansky, UZH and ETH Zurich
13:00 – 14:00	Lunch (Hotelhalle)
13:58	Public bus to Bad Ragaz
14:00	Hiking in the Tamina Gorge (optional)

*Tamina Therme is a few walking minutes away from your Hotel Schloss Ragaz

Short Talks on Ph.D. Research Projects:

(10 minutes talk and five minutes discussion)

Part I, Thursday, 17:00 – 19:00

1. Michiko Inoye, Institute for Neuroscience, ETH

Role of miR379-410 cluster-mediated proline-rich 7 protein on neuronal synaptic regulation

2. Lin Que, Brain Research Institute, UZH

Molecular profiling of morphologically-identified GABAergic interneurons using single-cell RNA sequencing

3. Kristina Thumfart, Brain Research Institute, UZH

Contribution of somatic testis cells to epigenetic inheritance of early life traumatic experiences

4. Deepak Tanwar, Brain Research Institute, UZH

Computational analysis of the genetic and non-genetic impact of various environmental insults across generations

5. Adrian Hoffmann, Brain Research Institute, UZH

Multi-area recordings of behaving mice (preliminary title)

6. Sherida de Leeuw, Institute of Regenerative Medicine, UZH

Modeling Alzheimer's disease in iPSC-derived neural cells

7. Francesca Catto, Institute of Neuropathology, USZ

Crystal technology and a new look into neurodegeneration

Part II, Friday, 9:00 – 12:00

8. Sucheta Sridhar, Institute of Pharmacology and Toxicology, UZH

Exploring synaptic plasticity in animal models of fear conditioning

9. Yanfang Xia, PUK and Institute of Pharmacology and Toxicology, UZH

The neural morphological and functional changes in fear conditioning in rodents and humans

10. Josefine Ruder, Department of Neurology, USZ

Characterization of B lymphocytes in multiple sclerosis - relation to clinical-, MRI characteristics and treatments

11. Kelly Payette, Center for MR Research, University Children's Hospital Zurich

Methodological development and advanced neuroimaging analysis of fetal MRI

12. Laura Sirucek, Research Chiropractic Medicine, Balgrist University Hospital

Spinal and supraspinal sensitization investigated by brain imaging and psychophysical assessment in low back pain patients

13. Alexandros Guekos, D-HEST, ETH

The influence of danger signals on nociceptive processing

14. Romina Willi, Balgrist University Hospital

Overground gait training to promote recovery of walking function in chronic spinal cord injury: a randomized clinical trial

15. Paulina Scheuren, Spinal Cord Injury Center, University Hospital Balgrist

Sensory plasticity after acute spinal cord injury

16. Anara Alshanbayeva, Brain Research Institute, UZH

Study of circulating RNAs in the inheritance of traumatic experiences in mammals

17. Jelena Wehrli, Psychiatric University Hospital

title tbd

Part III, Saturday, 9:00 – 11:45

18. Josua Zimmermann, D-HEST, ETH

Comparative neuropsychopharmacology of methamphetamine (“Crystal Meth”) and MDMA (“Ecstasy”) on facets of cognitive control and impulsive behavior in social and non-social contexts: integrating behavior, psychophysiology, and neurochemistry

19. Sabine Dziemian, Institute of Psychology, UZH

Investigating neuropsychological and neuroanatomical characteristics of data-driven ADHD subgroups in an existing large sample

20. Helena Aicher, Institute of Psychology, UZH

Going beyond the self: Counteracting depressive states with disembodiment

21. Katharina Wellstein, Institute of Biomedical Engineering, UZH/ETH

Experimental and computational investigation of brain-body interaction

22. Birthe Warnholz, ORL-Clinic, USZ

Protective and adaptive function of the human middle ear

23. Enea Ceolini, Institute for Neuroinformatics, UZH/ETH

Real-time source separation using an ad-hoc multimicrophone system

24. Aniruddh Galgali, Institute for Neuroinformatics, UZH/ETH

Inferring and probing the temporal dynamics of neural population in pre-frontal cortex

25. Juneseung Lee, Institute for Neuroinformatics, UZH/ETH

Neural ensemble dynamics during vocal learning

26. Mohammadali Sharifshazileh, Institute for Neuroinformatics, UZH/ETH

An analog neural recording front end for detection of HFOs capable of interfacing with neuromorphic processing units

Posters, Friday, 15:30-18:00

Even poster numbers: presenters are at poster 15:30 – 16:45

Odd poster numbers: presenters are at poster 16:45 – 18:00

P01 Denise Helbling, Institute of Molecular Life Sciences, UZH

Interaction partners between synaptic cell adhesion molecules and the cytoskeleton

P02 Paola Muttathukunnel, Institute of Molecular Life Sciences, UZH

Molecular mechanisms underlying transsynaptic nano-alignment

P03 Katarzyna Kita, Institute of Molecular Life Sciences, UZH

The role of GluR4 in synaptic homeostasis and cerebellar function

P04 David Colameo, Institute for Neuroscience, ETH

The local role of microRNA in synaptic homeostatic plasticity

P05 Teresa Cramer, Institute of Pharmacology & Toxicology, UZH

ECM regulation of synaptic plasticity

P06 Benjamin Campbell, Institute of Pharmacology & Toxicology, UZH

Exploring sex dependent-regulation of gephyrin phosphorylation for the development of inhibitory connectivity in the mouse brain

P07 Martina Russo, Institute of Molecular Life Sciences, UZH

Genetics in neurodevelopmental disorders

P08 Angeliki Damilou, Brain Research Institute, UZH
[The impact of Cajal-Retzius cell death in the development of the cortical circuit](#)

P09 Carlotta Gilardi, Institute for Neuroscience, ETH
[The role of miRNAs in stress in rodents](#)

P10 Merve Avar, Institute of Neuropathology, USZ
[A whole genome siRNA screen for identification of modulators of prions](#)

P11 Daniel Heinzer, Institute of Neuropathology, USZ
[Whole genome RNAi screen identifies novel regulators of PrPC as potential therapeutic targets in prion diseases](#)

P12 Emina Lemes, Institute of Neuropathology, USZ
[Vacuolation in prion disease](#)

P13 Cristina Bellotti, Children's University Hospital
[Exosomes targeting in the brain](#)

P14 Alexandra Bentrup, Institute of Neuropathology, USZ
[Protein aggregation mechanisms in neurodegenerative diseases](#)

P15 Martina Nigri, Institute of Human Movement Sciences and Sports, ETH
[Ribosomal misreading: a potential mechanism involved in neurodegeneration and ageing](#)

P16 Jovana Malikovic, Institute of Human Movement Sciences and Sports, ETH
[Tracing ecology and phylogeny in the structure of the hippocampus](#)

P17 Priyanka Ravikumar, Institute of Regenerative Medicine, UZH
[Developing beta-amyloid based biomarker for early diagnosis of Alzheimer's disease](#)

P18 Martyna Plomecka, Institute of Psychology, UZH
[Neural mechanisms of cognitive aging](#)

P19 Tom Willems, Psychological Institute, University of Berne
[Comparison of conscious and unconscious episodic memory in the hippocampus with high-resolution fMRI](#)

P20 Joseph Heng, Institute of Human Movement Sciences and Sports, ETH
[Neural mechanisms underlying cognitive limitations](#)

P21 Claire Lugin, Zurich Center for Neuroeconomics, UZH
[Neural mechanisms of social norm compliance](#)

P22 Gaia Lombardi, Zurich Center for Neuroeconomics, UZH
[A mechanistic insight on context dependent decision-making](#)

P23 Sarah Di Pietro, Dept. of Child and Adolescent Psychiatry and Psychotherapy, PUK
[Neurodevelopmental trajectories of visual and audiovisual language processing in children with varying reading skills](#)

P24 Adrian Cathomen, Neural Control of Movement Lab, ETH
[Assessment of walking function across different training modalities: unraveling common and distinct challenges of neural control](#)

P25 Freschta Mohammadzadeh, Neural Control of Movement Lab, ETH
[Communication through synchronization: a mechanism of recovery underlying spinal cord injury?](#)

P26 Dario Pfyffer, Spinal Cord Injury Center, Balgrist University Hospital
[Identification of magnetic resonance biomarkers in spinal cord injury patients](#)

P27 Monika Zbytniewska, Institute of Robotics and Intelligent Systems, ETH
[Robotic assessment and therapy of proprioceptive hand function after neurological injuries and its link to motor recovery](#)

P28 Weronika Potok, Neural Control of Movement Lab, ETH
[Modulating the brain with random noise](#)

P29 Ernest Mihelj, Neural Control of Movement Lab, ETH

[Brain computer interface](#)

P30 Carolina Beppi, Department of Neurology, USZ

[Establishing an animal model \(zebrafish\) of concussion for the understanding of its pathomechanisms and clinical consequences](#)

P31 David Bächinger, Dep. of ORL, USZ

[Development of a new mouse model for Meniere's disease](#)

P32 Tahmine Sadat Farahmandi, Dep. of ORL, USZ

[Sound wave propagation in bone conduction hearing](#)

P33 Merlin Schär, Dep. of ORL, USZ

[Protective and adaptive functions of the human middle ear: Roles of the middle-ear muscles and the stapedial annular ligament](#)

P34 Yuhuang Hu, Institute of Neuroinformatics, UZH / ETH

[Energy-efficient designs of deep neural networks](#)

P35 Joachim Ott, Institute of Neuroinformatics, UZH / ETH

[Biologically inspired neural networks for sequence modeling](#)

P36 Shu Wang, Institute of Neuroinformatics, UZH / ETH

[Investigations into algorithms for biosignals](#)

P37 Vanessa Rodrigues Coelho Leite, Institute of Neuroinformatics, UZH / ETH

[A compiler for spiking neural networks in neuromorphic hardware](#)

P38 Dimitrii Zendrikov, Institute of Neuroinformatics, UZH / ETH

[Learning context-dependent sensory-motor control using relational networks on neuromorphic hardware](#)

P39 Enrico Calabrese, Institute of Neuroinformatics, UZH / ETH

[Video saliency attention models](#)

21 May 2019