PROGRAM

Friday, 13 September 2013
Lecture Hall F1, Building HG, ETH Main Building, Rämistrasse 101, Zurich

8:30 – 8:45  Introduction

8:45 – 9:30  Volker-Henn Lecture:
**Genetic dissection of the architecture of neurologic disease**
Prof. John Hardy, Institute of Neurology, University College London

9:30 – 10:00  Coffee Break

10:00 – 11:30  Parallel Workshops:
- **Pain: from molecules to circuits** (Lecture Hall E 1.1)
  Organization: Prof. Hanns Ulrich Zeilhofer and Prof. Markus Rudin
- **Cerebrovascular imaging: from structure to function** (Lecture Hall E 1.2)
  Organization: Prof. Bruno Weber and Prof. Marco Stampanoni
- **Translational research in Multiple Sclerosis** (Lecture Hall E 3)
  Organization: Prof. Roland Martin

11:30 – 14:00  Poster Session, Lunch (Foyers E-Nord, D-Nord)
11:30  General Assembly of ZNZ Group Leaders (Lecture Hall F1)

14:00 – 14:20  Short Talks, Part I:
- **Sleep and the disordered brain**
  PD Dr. Christian Baumann, Department of Neurology, University Hospital Zurich

14:20 – 14:40  Reactivating memories during sleep: recent findings
  Prof. Björn Rasch, Institute of Psychology, University of Zurich

14:40 – 15:00  Striatum contributes to declarative memory formation in humans and mice
  Prof. Nicole Wenderoth, Department HEST, ETH Zurich

15:00 – 15:20  Ultra-high field MRI technology for brain imaging
  Prof. Klaas Prüßmann, Institute for Biomedical Engineering, University of Zurich and ETH Zurich

15:20 – 16:00  Coffee Break
Short Talks, Part II:

16:00 – 16:20  
**Cognitive and social impairment in cocaine users: predisposition, neuroplasticity or neurotoxicity?**  
Prof. Boris Quednow, University Hospital of Psychiatry Zurich

16:20 – 16:40  
**Genetics of severe unspecific intellectual disability**  
Prof. Anita Rauch, Institute of Medical Genetics, University of Zurich

16:40 – 16:55  
**ZNZ Award for the Best PhD Thesis 2013**

Short break

17:00 – 17:45  
Memorial Award Lecture of the Koetsier Foundation:  
**Unexpected effects of magnetic fields on the human brain**  
Prof. David Zee, The Johns Hopkins Hospital, Baltimore

17:45 – 18:30  
Apéro
Parallel Workshops

Pain: from molecules to circuits (Lecture Hall E 1.1)

10:00 - 10:40  New signalling pathways mediating the transition from acute to chronic pain
Prof. Stephen Hunt, Dept. of Cellular and Developmental Biology, University College London

10:40 - 11:05  Inhibitory interneurons in dorsal horn pain controlling circuits
Dr. Hendrik Wildner, Institute of Pharmacology and Toxicology, University of Zurich

11:05 - 11:30  Establishment of fMRI methods in models of pain
Dr. Aileen Schroeter, Institute for Biomedical Engineering, University of Zurich and ETH Zurich

Cerebrovascular imaging: from structure to function
(Lecture Hall E 1.2)

10:00 - 10:30  Synchrotron-radiation based X-ray tomography of cerebrovascular networks
Prof. Marco Stampanoni, Paul Scherrer Institute Villigen and ETH Zurich

10:30 - 11:00  Cerebrovascular structure and hemodynamics
Prof. Bruno Weber, Institute of Pharmacology and Toxicology, University of Zurich

11:00 - 11:30  Quantitative measurement of cerebral blood flow using MRI: a tool for neurosciences
Prof. Xavier Golay, Institute of Neurology, University College London
**Translational research in Multiple Sclerosis** (Lecture Hall E3)

10:00 - 10:25  **The Duffy antigen/receptor shuttles inflammatory chemokines across the blood-brain barrier during autoimmune CNS inflammation**
Prof. Britta Engelhardt, Theodor Kocher Institute, University of Berne

10:25 - 10:50  **Neuroimaging in MS: towards the integration of functional and molecular information**
Prof. Matilde Inglese, Mount Sinai School of Medicine, New York

10:50 - 11:03  **Phenotyping Multiple Sclerosis using OCT retinal multilayer segmentation**
Dr. Sven Schippling, Dept of Neurology, University Hospital Zurich

11:03 - 11:16  **Novel observations regarding the functional involvement of the HLA-DR15 haplotype in MS pathogenesis**
Dr. Malte Mohme, University Medical Centre Eppendorf, Hamburg

11:16 - 11:29  **Myelin antigen-specific tolerization in MS: observations from a phase I trial**
Dr. Andreas Lutterotti, University Neurology Clinic, Innsbruck