Wednesday, June 20

14:00
Introductory remarks
Klaus Lieb, Mainz
Helmuth Steinmetz, Frankfurt

14:15 – 15:00 Lecture
Nicola di Stefano
Dept. of Neurology, Neurosurgery & Behavioral Sciences, University of Siena
Tissue damage in MS: insights from MRI

Symposium I “Reorganization of cortical networks in Multiple Sclerosis” Chair: Frauke Zipp

15:00—15:20
Bernhard Baier
Department of Neurology, Mainz
Reorganization of cortical networks in Multiple Sclerosis

15:20 – 15:40
Mathias Wahl
Department of Neurology, Frankfurt
Interhemispheric disconnection of the motor system in early relapsing remitting multiple sclerosis (RRMS)

15:40 – 16:00
Enzo Tagliazucchi
Department of Neurology, Frankfurt
Graph theoretical analysis of topological functional organization during resting state in multiple sclerosis (an fMRI study)

16:00 – 16:15
Nina Bauer
Winner of poster prize FTN/IAK Symposium 2011
Institute for Physiology & Pathophysiology, Mainz
Myelin Basic Protein synthesis is regulated by small non-coding RNA715

16:15 – 16:40
Coffee break

16:40 – 17:00
Torfi Sigurdsson
Institute of Neurophysiology, Frankfurt
Network dysfunction in genetic mouse models of schizophrenia

17:00 – 17:20
Peter Uhlhaas
MPI for Brain Research, Frankfurt
NMDA-hypofunctioning and Neural Synchron Deficits in Schizophrenia

17:20 – 17:40
Jochen Roeper
Institute of Neurophysiology, Frankfurt
Subtypeselective dysregualtion of dopamine midbrain neuron in a striatal D2-overexpression mouse model of schizophrenia

17:40 – 18:00
Coffee break

18:00 – 18:45 Lecture
Gereon Fink
Department of Neurology, University Hospital Köln
Recovery of function after stroke: Is there any way to overcome the translational roadblock?

19:00 – open end
Cookout

Thursday, June 21

07:30 – 09:00
Breakfast

09:00 – 09:45 Lecture
Ofer Yizhar
Department of Neurobiology, Weizmann Institute of Science, Israel
Optical control and recording of neural circuit dynamics

Symposium III “Optogenetics in cognitive and systems neuroscience” Chair: Pascal Fries

09:45 – 10:05
Ilka Diester
Ernst-Strüngmann-Institute, Frankfurt
Optogenetics in rodents and non human primates

10:05 – 10:25
Christian Schultheis
Institute of Biochemistry, Frankfurt
Unraveling the neuronal basis of behavior by optogenetics in Caenorhabditis elegans
**Friday, June 22**

**07:30 – 09:00**
Breakfast

**09:00 – 09:45 Lecture**
Andreas Engel
Department of Neurophysiology and Pathophysiology, Hamburg
Spectral fingerprints of large-scale communication in the brain

**09:45 – 10:05**
Carsten Duch
Institute for Zoology, Mainz
Calcium Channel Function in Drosophila Motoneurons

**10:05 – 10:25**
Sara Kuntz
Institute for Zoology, Mainz
Analysis of a Working Memory for Visual Orientation in Drosophila

**10:25 – 10:45**
Sina Tootoonian
MPI for Brain Research, Frankfurt
Full-rank ultra-sparse encoding of odors in the locust olfactory system

**10:45 – 11:00**
Coffee Break

**11:00 – 11:20**
André Bastos
Ernst-Strüngmann-Institute Frankfurt
Bottom-up vs top-down interactions

**11:20 – 11:40**
Christian Fiebach
Department of Psychology, Frankfurt
Neural Bases of Individual Differences in Working Memory Capacity

**11:40 – 12:00**
Christian Kell
Department of Neurology, Frankfurt
Speech networks in health and disease

**12:00 – 12:20**
Mathias Schreckenberger
Department of Nuclear Medicine, Mainz
PET Imaging in Neuropharmacology Research

**12:20 – 12:40**
Oliver Tüscher
Clinic for Psychiatry and Psychotherapy, Mainz
Neural systems of impulse control

**12:40 – 13:25 Lecture**
Andreas Meyer-Lindenberg
Central Institute of Mental Health, Mannheim
Brain mechanisms of risk for mental illness

**13:25**
Awarding of Poster Prizes, Concluding Remarks

**13:45 – 14:30**
Lunch

**14:30**
Departure