Rhine – Main Neuroscience Network

rmn²

1st meeting
November 24 – 26, 2010

Jugendherberge Oberwesel
Auf dem Schönberg
55430 Oberwesel

Wednesday, November 24

14:00
Introductory remarks
Jacky Trotter, Mainz
Herbert Zimmermann, Frankfurt
Robert Nitsch, Mainz

14:15 – 15:00
Klaus Unsicker (Chair. Thomas Deller, Frankfurt)
Department of Molecular Embryology, University of Freiburg
GDF-15, a novel TGF-ß superfamily member, is crucial for the maintenance of postnatal motor and sensory neurons

Symposium I (Chair: Hermann Rohrer, Frankfurt)

15:00 – 15:20
Ana Rogulja-Ortmann
Institute for Genetics, Mainz
Regulation and impact of Hox RNA processing on regional diversification during Drosophila CNS development

15:20 – 15:40
Mirko Schmidt
Edinger Institute, Frankfurt
EGFL7 regulates adult neural stem cell maintenance and differentiation by inhibition of Notch1

15:40 – 16:00
Amparo Acker-Palmer
Institute for Cell Biology and Neuroscience, Frankfurt
EphrinB signaling during nervous system development and plasticity

16:00 – 16:20
Johannes Vogt
Institute for Microanatomy and Neurobiology, Mainz
Phospholipid signaling at the glutamatergic synapse: Does early neuronal activity influence neuronal connectivity?

16:20 – 16:40
Break

Symposium 2 (Chair: Beat Lutz, Mainz)

16:40 – 17:00

Thursday, November 25

07:30 – 08:45
Breakfast

08:45 – 9:00
Georg Krausch, President of the Johannes Gutenberg University Mainz
Salutatory Address

Werner Müller-Esterl, President of the Goethe University Frankfurt
Salutatory Address

09:00 – 9:45
Christian Büchel (Chair: Ulf Ziemann, Frankfurt)
Department of Systems Neuroscience, University Medical Center Hamburg-Eppendorf
Brain Imaging as a Neurophysiology Toolkit in Humans
Symposium 3 (Chair: Christian Behl, Mainz)

9:45 – 10:05
Julia Leschik
*Institute for Physiological Chemistry and Pathobiochemistry, Mainz*
Functions of the cannabinoid receptor 1 (CB1) in adult neurogenesis

10:05 – 10:25
Manuela Nowotny
*Institute for Cell Biology and Neuroscience, Frankfurt*
Mechano-electrical Transduction in Hearing Organs

10:25 – 10:45
Kerstin Nagel-Wolfrum
*Cell and Matrix Biology, Institute for Zoology, Mainz*
Gene-based therapy options for Usher syndrome type 1C

10:45 – 11:00
Coffee break

Symposium 4 (Chair: Irmgard Tegeder, Frankfurt)

11:00 – 11:20
Morna Gruber
*Neurobiology, Institute for Zoology, Mainz*
Electrophysiological characterization of neurons in the tectum opticum of Carassius auratus with respect to "color" and "motion"

11:20 – 11:40
Alexander Gottschalk
*Institute for Biochemistry, Frankfurt*
Optogenetic analysis of synaptic transmission and neuronal networks in Caenorhabditis elegans

11:40 – 12:00
Hartwig Spors
*Max Planck Institute for Biophysics, Frankfurt*
Testing Olfactory Processing

12:00 – 14:00
Lunch

14:00 – 14:45
Giles Laurent (Chair: Heiko Luhmann, Mainz)
*Max Planck Institute for Biophysics, Frankfurt*
Adaptive grain control in an olfactory environment

14:45 – 18:30
Poster Session

18:30 – 19:30
Dinner

19:30 – 20:15
Angela Giangrande (Chair: Gerd Technau, Mainz)
*Department of Cell Biology and Development, IGBMC Strasbourg*
Differentiation and Reprogramming of Neural Stem Cells in Drosophila

20:30 – 00:00
Party

Friday, November 26

07:30 – 08:45
Breakfast

09:00 – 09:45
Trevor Smart (Chair: Jochen Kaiser, Frankfurt)
*Department of Neuroscience, Physiology and Pharmacology, University College London*
Plasticity of Synaptic and Extrasynaptic Inhibitory Transmission

09:45 – 10:05
Pascal Fries
*Ernst Strüngmann Institute, Frankfurt*
Electrophysiological imaging of the attention network

10:05 – 10:25
Michael Wibral
*Brain Imaging Center, Frankfurt*
Neuronal Correlates of Perceptual Closure processing - an investigation with time-resolved MEG-Beamforming and Transfer Entropy

10:25 – 10:45
Jörg Lücke
*FIAS, Frankfurt*
What are the Functional Goals of Learning and Sensory Encoding in the Cortex? - Lessons from Simple Cell Responses in V1

10:45 – 11:00
Break

Symposium 5 (Chair: Jochen Triesch, Frankfurt)

09:45 – 10:05
Pascal Fries
*Ernst Strüngmann Institute, Frankfurt*
Electrophysiological imaging of the attention network

10:05 – 10:25
Michael Wibral
*Brain Imaging Center, Frankfurt*
Neuronal Correlates of Perceptual Closure processing - an investigation with time-resolved MEG-Beamforming and Transfer Entropy

10:25 – 10:45
Hartwig Spors
*Max Planck Institute for Biophysics, Frankfurt*
Testing Olfactory Processing

11:00 – 11:20
Andreas Kern
*Institute for Pathobiochemistry, Mainz*
Adaptation of neuronal proteostasis during aging

11:20 – 11:40
Andreas Fellgiebel
*Department of Psychiatry and Psychotherapy, Mainz*
Translational neuroscience approaches based on cognitive phenotypes in neuropsychiatric syndromes

12:00 – 12:45
Marius Ueffing (Chair: Uwe Wolfrum, Mainz)
*Department of Protein Science, Helmholtz Zentrum München*
Targeting Protein Networks in Neurosensory Disease: Functional Proteomic Approaches to Analyse Molecular Defects on a Systems Level

12:45
Wolf Singer, Frankfurt
*Max Planck Institute for Brain Research, Frankfurt*
Perspectives in the Neurosciences and awarding of poster prizes

13:00 – 14:00
Lunch

14:00
Departure