

rhine – main neuroscience network



4th Biennial Meeting

June 22 - 24, 2016

Jugendherberge Oberwesel
Auf dem Schönberg
55430 Oberwesel

Wednesday, June 22

14:00 Introductory remarks

Christian Fiebach, speaker program committee
Jochen Roeper, speaker rmn²

Herbert Zimmermann
Institute for Cell Biology and Neuroscience, University Frankfurt
Ten years of Interdisciplinary Center for Neuroscience Frankfurt and the rise of Rhine Main Neuroscience

14:30 – 15:15 Lecture

Gerhard Schratt
Institute for Physiological Chemistry, University of Marburg
Role of non-coding RNA in neuronal development and homeostasis

Symposium I “Translational Epilepsy Research”

Chair: Felix Rosenow

15:15– 15:30

Sebastian Bauer
Epilepsy Center ZNN, Frankfurt/Marburg
Immunopathogenesis of temporal epilepsy: clinical and experimental data including from cerebral microdialysis

15:30 – 15:45

Braxton Norwood
Epilepsy Center ZNN, Marburg
The intracellular TLRs 3,7, and 9 and epilepsy: data from ko models

15:45 – 16:00

Karl Martin Klein
Epilepsy Center ZNN, Frankfurt/Marburg
MiRNA genetic variants predisposing to epilepsy

16:00 – 16:15

Lara Costard
Epimirna-Project Marburg/Frankfurt
Brain stimulation induced epileptic tolerance

16:15 – 16:30 Coffee break

Symposium II “New in the Region”

Chair: Christian Fiebach

16:30 – 16:50

Christine Ecker
Department of Child and Adolescent Psychiatry, University Frankfurt
Translational Neuroimaging in Autism Spectrum Disorder

16:50 – 17:10

Sergiu Groppa
Clinic for Neurology, University Medical Center Mainz
Human connectivity studies by the aid of invasive and non-invasive stimulation techniques

17:10 – 17:30

Melissa Le-Hoa Vö
Scene Grammar Lab, Department of Cognitive Psychology, University Frankfurt
Reading Scenes: How Scene Grammar Guides Attention and Perception in the Real World

17:30 – 17:50

Stefan Bittner
Clinic for Neurology, University Medical Center Mainz
Two-pore domain potassium channels regulate CNS autoimmunity

17:50 – 18:00 Break

18:00 – 18:45 Lecture

Moritz Helmstaedter
Department of Connectomics, MPI for Brain Research, Frankfurt
Cellular resolution connectomics

19:00 – open end Cookout

Thursday, June 23

08:00 – 09:00 Breakfast

09:00 – 09:45 Lecture

Ilka Diester
Optophysiology lab, University of Freiburg
Rodent prefrontal cortex subsections gradually contribute to response preparation, inhibition and execution

Symposium III “Coding Strategies in Networks of Neurons”

Chair: Tatjana Tchumatchenko

09:45 – 10:05

Julio Hechavarria
Institute for Cell Biology and Neuroscience, University Frankfurt
Encoding of natural sound streams in the bat auditory cortex

10:05 – 10:25

Hiroshi Ito
MPI for Brain Research, Frankfurt
Temporal spike coordination in the prefrontal-thalamo-hippocampal circuit during route decisions

10:25 – 10:45

Jochen Triesch

Frankfurt Institute for Advanced Studies

How plasticity shapes neural coding

10:45 – 11:15 Coffee break

11:15 – 12:00 Lecture

Guillermina Lopez-Bendito

Laboratory of Cellular & Molecular Mechanisms of Brain Wiring,
Instituto de Neurociencias, CSIC & Universidad Miguel Hernández,
San Juan de Alicante, Spain

Understanding the role of the thalamus in the development
and plasticity of cortical areas

Symposium IV “From Developmental Neurogenesis to Reprogramming”

Chair: Benedikt Berninger

12:00 – 12:20

Christian Berger

Institute of Genetics, University Mainz

Regulation of quiescence in neural stem cells of drosophila

12:20 – 12:40

Vijay Tiwari

IMB Mainz

Deciphering the epigenetic code of embryonic neurogenesis

12:40 – 13 :00

Hermann Rohrer

Institute for Clinical Neuroanatomy, University Frankfurt and ESI

From neurogenesis in the autonomic nervous system to
neuroblastoma: a perspective from developmental
neurobiology

13:00 – 14:00 Lunch break

14:30 – 17:00 Posters and Coffee

Symposium V “Neurobiology of Developmental Psychiatry”

Chairs: Christine Freitag, Andreas Reif

17:00 – 17:20

Sarah Kittel Schneider

Department of Psychiatry, University Frankfurt

Cell models of attention-deficit/hyperactivity disorder

17:20 – 17:40

Andreas Chiocchetti

Department of Child & Adolescent Psychiatry, Psychosomatics and
Psychotherapy, University Frankfurt

Transcribing neuropsychiatric diseases: Co-expression
networks of neuronal differentiation and their implication in
autism

17:40– 18:00

Michael van der Kooij

Department of Psychiatry and Psychotherapy, University Mainz

Mitochondrial function in the nucleus accumbens connects
anxiety to social competition

18:00 – 19:30 Dinner

19:30 – 20:15 Lecture

Elisabeth Binder

Department of Translational Research in Psychiatry, Max Planck
Institute of Psychiatry, Munich

The interplay of genetic and epigenetic mechanisms in
shaping risk and resilience to early adversity

20:30 – open end Party

Friday, June 24

08:00 – 09:00 Breakfast

09:00 – 09:45 Lecture

Anthony Holtmaat

Department of Basic Neurosciences, University of Geneva,
Switzerland

Mechanisms for plasticity in the mouse somatosensory
cortex

Symposium VI “The Dynamic Connectome”

Chair: Simon Rumpel

09:45 – 10:05

Thomas Deller

Institute for Clinical Neuroanatomy, University Frankfurt

The injured brain - homeostatic mechanisms allowing
denervated neurons to 'return to work

10:05 – 10:25

Anna Chambers

Institute of Physiology, University Mainz

Long-Term dynamics of spontaneous and evoked activity
patterns in cortical circuits

10:25 – 10:45

Matthias Kaschube

FIAS, University Frankfurt

Discrete representations in mouse auditory cortex and their
stability under synaptic turnover

10:45 – 11:15 Coffee break

Symposium VII “Bridging the Gap- Translational Approaches to Mental Disorders”

Chairs: Marianne Müller, Michèle Wessa

11:15 – 11:30

Barbara Vollmayr

Central Institute for Mental Health, Mannheim

Interpretation bias as marker of depression: Findings from
animal research

11:30 – 11:45

Ulrike Basten

Department of Psychology, University Frankfurt

Cognitive biases in affective information processing:
Personality-related differences in healthy people

11:45 – 12:00

Michèle Wessa

Dept.artment of Psychology, University Mainz

Explicit and implicit interpretation bias as marker of
depression: Findings from human research

12:00 – 12:15

Klaus Lieb

Department of Psychiatry and Psychotherapy, University Medical
Center Mainz

Clinical and molecular markers of therapy-response
prediction in depression

12:15 – 13:00 Lecture

Theo Rein

Department of Translational Research in Psychiatry, Max Planck
Institute of Psychiatry, Munich

The stress protein FKBP51 as paradigm for translational
research: molecular actions, pharmacology, clinic

13:10

Awarding of Poster Prizes
Concluding Remarks

13:15 – 14:00

Lunch

14:00

Departure