

rhine – main neuroscience network



rhine main neuroscience

5th Biennial Meeting

June 13 - 15, 2018

Jugendherberge Oberwesel
Auf dem Schönberg
55430 Oberwesel

sponsored by



Wednesday, June 13

13:00 Welcome

Heiko Luhmann, speaker program committee
Klaus Lieb, speaker rmn²

13:05 – 14:00 Lecture

Edita Navratilova
Dept. Pharmacology, University of Arizona
Pain Processing in the Brain

Symposium I “Mechanisms of pain persistence and relief”

Chair: Irmgard Tegeder, Inst. Clinical Pharmacology, Frankfurt

14:00– 14:20

Katharina Zimmermann
Department of Anesthesiology, Erlangen
Identifying susceptibility factors of cold allodynia with behavioural animal models

14:20 – 14:40

Marco Sisignano
Inst. Clinical Pharmacology, Frankfurt
Lipid signalling in neuropathic pain states

14:40 – 15:00

Frank Birklein
Neurology Clinic, Mainz
Immune mechanisms of Complex Regional Pain

15:00 – 15:30 Coffee break

Symposium II “New in the Region”

Chair: Heiko Luhmann, Inst. Physiology, Mainz

15:30 – 15:50

David Slattery
Department of Psychiatry, Frankfurt
Rbfox1 – a novel candidate gene for psychiatric disorders

15:50 – 16:10

Jakob von Engelhardt
Inst. Pathophysiology, Mainz
Modulatory role of AMPA receptor interacting proteins

16:10 – 16:30

Julijana Gjorgjieva
MPI for Brain Research
Activity-dependent organizing principles in developing cortical networks

16:30 – 16:50

Florian Ringel
Department of Neurosurgery
TBA

16:50 – 17:30 Coffee Break

17:30 – 17:45

Constantin Rothkopf
Dept. Psychology and Centre for Cognitive Science, TU Darmstadt
Introduction of the Centre for Cognitive Science

17:45 – 18:00

Constantin Rothkopf
Dept. Psychology and Centre for Cognitive Science, TU Darmstadt
Computational models of active vision: understanding gaze selection in space and time

18:15 – 18:30

Ralf Galuske
Dept. Biology and Centre for Cognitive Science, TU Darmstadt
The role of cortico-cortical interactions during visual processing

18:15 – 18:30

Bodo Laube
Dept. Biology, TU Darmstadt
Role of glutamatergic transmission and ionizing radiation in cellular stress

19:00 – open end Cookout

Thursday, June 14

08:00 – 09:00 Breakfast

09:00 – 10:00 Lecture

Francois Guillemot
Francis Crick Institute, UC London
Heterogeneity of stem cells in the adult brain

Symposium III "Gene regulatory mechanisms in brain development and function"

Chair: Jennifer Winter, Inst. Human Genetics, Mainz

10:00 – 10:20

Susann Schweiger

Inst. Human Genetics, Mainz

Epigenetic modulation in imprinting disorders- therapeutic implications

10:20 – 10:40

Marisa Karow

Inst. Physiol. Chem., Mainz & LMU München, BMC, Physiologische Genomik

Probing the transcriptional programs underlying human neurogenesis by direct lineage reprogramming

10:40 – 11:00

Marzieh Zonouzi

Boehringer Ingelheim

Regulation of axon-oligodendrocyte interaction in health and disease

11:00 – 11:30 Coffee break

11:30 – 12:30 Lecture

Marija Petrinovic

Inst. Psychiatry, Psychology & Neuroscience, King 's College, London

Repetitive behaviour(s) in animal models of autism

Symposium IV "The Neuroscience of Autism Spectrum Disorder"

Chair: Christine Ecker, Dept. Child and Adolescent Psychiatry, Frankfurt

12:30 – 12:50

Michael Schmeißer

Inst. Anatomy, Magdeburg

Novel avenues in the pathobiology of autism spectrum disorder

12:50 – 13:10

Andreas Chiocchetti

Dept. Child and Adolescent Psychiatry, Frankfurt

Translating the genetic landscape of autism to brain developmental trajectories

13:10 – 13 :30

Caroline Moessnang

Central Health Inst., Mannheim

A multisite investigation of functional brain systems in autism spectrum disorder using task-based fMRI

13:30 – 14:00 Lunch break

14:00 – 15:00 Lecture

Rohini Kuner

Inst. Pharmacology, Heidelberg

Chronic pain: why time does not heal all wounds

15:00 – 18:00 Posters and Coffee

17:15 Meeting FTN-fellowship holders

their attendance at posters only until 17:00

18:00 – 19:00 Lecture

Istvan Mody

Dept. Physiology, UCLA, Los Angeles

Inhibition in the aging brain

19:00 – 20:00 Dinner

20:30 – open end Party

Friday, June 15

08:00 – 09:00 Breakfast

09:00 – 10:00 Lecture

Ilona Grunwald Kadow

Technical University of Munich, Freising

Dissecting adaptive animal behaviour in the fly

Symposium V "Synaptic plasticity and learning in neuronal networks"

Chair: Julijana Gjorgjieva, MPI Brain Research, Frankfurt

10:00 – 10:20

Johannes Letzkus

MPI Brain Research, Frankfurt

Behavioural control of neocortical computations through layer 1

10:20 – 10:40

Florence Kleberg

FIAS, Frankfurt

Network structure shaped by excitatory and inhibitory plasticity

10:40 – 11:00

Mark Hübener

MPI Neurobiology, Martinsried

Neuronal correlates of category learning in mouse visual cortex

11:00 – 11:30 Coffee and Snacks

Symposium VI "Neurophysiology of cognitive functions"

Chair: Maik Stüttgen, Inst. Pathophysiology, Mainz

11:30 – 11:50

Torfi Sigurdsson

Inst. Neurophysiology, Frankfurt

Prefrontal circuits supporting spatial working memory

11:50 – 12:10

Sevil Duvarci

Inst. Neurophysiology, Frankfurt

Dopaminergic mechanisms of fear extinction

12:10 – 12:30

Martin Vinck

ESI, Frankfurt

State dependence of visual encoding and temporal activity patterns

12:30 – 13:30 Lecture

Marshall Shuler

Dept. Neuroscience, Johns Hopkins, Baltimore

The genesis of reward timing and a theory of temporal decision making

13:30

Awarding of Poster Prizes

Concluding Remarks

14:00

Departure