

rhine – main
neuroscience network



7th Biennial Meeting

June 8 - 10, 2022

Jugendherberge Oberwesel
Auf dem Schönberg
55430 Oberwesel

Wednesday, June 8

14:00 Welcome

Ralf Galuske, speaker rmn²
NN, speaker programm committee

Symposium I

“Mind the Gap – from the Presynapse to the Postsynapse”

Chair: tba

14:15 – 15:15 Keynote lecture

Laurent Groc
Institut Interdisciplinaire Neuroscience, Université de Bordeaux
NMDA receptor trafficking in health and disease

15:15-15:35

Martin Heine
Institute of Developmental Biology and Neurobiology, JGU Mainz
Dynamic organization of calcium channels in the synapse

15:35 – 15:55

Dilja Krueger-Burg
Institute of Microscopic Anatomy and Neurobiology, JGU Mainz
Probing the role of synaptic inhibition in the circuits underlying defensive behaviors

15:55 – 16:15

Helene Schmidt
Ernst Strüngmann Institute (ESI) for Neuroscience, Frankfurt
The more synapses the better: dense mapping of entorhinal-hippocampal circuitry

16:15 – 17:00 Coffee break

Symposium II

“Processing of Sensory Information”

Chair: tba

17:00 – 17:20

Marion Silies
Institute of Developmental Biology and Neurobiology, JGU Mainz
Vision in dynamically changing environments

17:20 – 17:40

Thomas Wallis
Centre for Cognitive Science, TU Darmstadt
Scene appearance and understanding

17:40 – 18:00

Carlotta Martelli
Institute of Developmental Biology and Neurobiology, JGU Mainz
Adaptive coding in odor processing

18:00 – 18:20

Shimpei Ishiyama
Institute of Pathophysiology, JGU Mainz
Neurogelotology: Neuroscience of Fun

18:20 – 19:00 Postertalks

19:30 Cookout

Thursday, June 9

08:00 – 09:00 Breakfast

Symposium III

“Cognition and Computation”

Chair: tba

09:00 – 10:00 Keynote lecture

David Poeppel
Ernst Strüngmann Institute (ESI) for Neuroscience, Frankfurt
Title tba

10:00 – 10:20

Frank Jäkel
Centre for Cognitive Science, TU Darmstadt
Criterion Learning in Perceptual Decision Making

Friday, June 10

10:20 – 10:40

Gemma Roig

Computer Science Department, GU Frankfurt

Modeling the human brain from invariance and robustness to clutter towards multimodal, multi-task and continuous learning models

10:40 – 11:00 **Coffee break**

11:00 – 11:20

Loes van Dam

Centre for Cognitive Science, TU Darmstadt

The processing of visual position and motion of external and self-controlled objects

11:20 – 11:40

Rosanne Rademaker

Ernst Strüngmann Institute (ESI) for Neuroscience, Frankfurt

Manipulating attentional priority creates a trade-off between memory and sensory representations in human visual cortex

11:40 – 12:00 **Postertalks**

12:00 – 13:00 **Keynote Lecture**

Angela Yu

University of California San Diego

Human learning and decision-making under uncertainty

13:00 – 14:00 **Lunch break**

14:00 – 16:30 **meet, hike, talk**

16:30 – 18:30 **Poster session**

19:00 – 20:00 **Dinner**

20:30 **Party**

08:00 – 09:00 **Breakfast**

Symposium IV “Naturalistic Behaviour”

Chair: tba

9:00 – 10:00 **Keynote Lecture**

Viola Priesemann

Göttingen

Homeostasis and intrinsic timescales in models and across cortex

10:00 – 10:20

Vanessa Stempel

Max-Planck-Institute for Brain Research, Frankfurt

Midbrain circuits for flexible instinctive behaviours

10:20 – 10:40

Jean Laurens

Max-Planck-Institute for Empirical Aesthetics, Frankfurt

Head Direction Cells: the 3D neuronal compass

10:40 – 11:00

Ralf Galuske

Centre for Cognitive Science, TU Darmstadt

Visual hemineglect: a complex network disturbance rather than a simple interhemispheric imbalance

11:00 – 11:30 **Coffee and Snacks**

Symposium V “Neurodegeneration”

Chair: tba

11:30 – 11:50

Dorothee Dormann

Institute of Molecular Biology, Mainz

Molecular mechanisms of RNA-binding protein dysfunction in neurodegenerative disorders

11:50 – 12:10

Stefan Eimer

Institute for Cell Biology and Neuroscience, GU Frankfurt

Understanding the molecular mechanisms leading to Parkinson's disease

12:10 – 12:30

Claire Jacob

Institute of Developmental Biology and Neurobiology, JGU Mainz

Transcriptional control of regeneration in myelinating glia

12:35

Awarding of Poster Prizes

Concluding Remarks

13:00

Departure