

Brain Dynamics Scientific Day

07.10.2022



Felix Klein lecture hall
Paulinum, 5th floor, Augustusplatz 10-11

Program

08:55 Welcome speech – Brain Dynamics Graduate School Speakers
Prof. Dr. **Marc Schönwiesner**, Institute of Biology, Faculty of Life Sciences;
Prof. Dr. **Stefan Hallermann**, Carl Ludwig Institute of Physiology, Medical Faculty.

09:00 Keynote Lecture
“**Exploring neural dynamics in sleep and visual texture perception**”
Prof. Dr. **Gilles Laurent**, Neural Systems Department, Max Planck Institute for Brain Research, Frankfurt am Main.

09:50 Poster session + coffee

11:00 “Behavior-based identification of chemical mechanisms”
Dr. David Leuthold, Department of Bioanalytical Ecotoxicology, Helmholtz Centre for Environmental Research – UFZ GmbH;

11:15 “Area-specific differentiation of neocortical synaptic coupling distance”
Max Schwarze, Carl Ludwig Institute of Physiology, Medical Faculty;

11:30 “Changes of brevicin in animal models of dystonia”
Anika Lüttig, Institute of Pharmacology, Pharmacy and Toxicology, Faculty of Veterinary Medicine;

11:45 “Motor neuron-driven spinal motor circuit pathology in spinal muscular atrophy with respiratory distress”
Katharina Apel, Carl Ludwig Institute of Physiology, Medical Faculty.

12:00 Lunch break with elections of the GS Board representatives

14:00 PI lightning talks - 11x5 minutes:

- The cellular basis of learning and memory in *Drosophila* larvae

Prof. Dr. Andreas Thum, Institute of Biology, Faculty of Life Sciences;

- Neurophysiological mechanisms of bad food decisions

PD Dr. Dennis Pauls, Institute of Biology, Faculty of Life Sciences;

- Molecular toxicology group: Chemical exposure, mechanisms and phenotypes

Prof. Dr. Tamara Tal, Department of Bioanalytical Ecotoxicology, Helmholtz Centre for Environmental Research – UFZ GmbH;

- Brain metabolism: beyond the usual suspects

Prof. Dr. Johannes Hirrlinger, Carl Ludwig Institute of Physiology, Medical Faculty;

- From wrong turns in the brain

Prof. Dr. Dr. Markus Morawski Paul Flechsig Institute of Brain Research, Medical Faculty;

- How cellular activities of fast-spiking interneurons are shaping network dynamics

Dr. Kristina Lippmann, Carl Ludwig Institute of Physiology, Medical Faculty;

- Cortical synapses: Probabilistic and plastic

Prof. Dr. Hartmut Schmidt, Carl Ludwig Institute of Physiology, Medical Faculty;

- Training-induced neuroplasticity on a functional and structural level

Prof. Dr. Patrick Ragert, Department of Movement Neuroscience, Faculty of Sports Science; Department of Neurology, MPI-CBS;

- Unravelling the mechanisms of motor dysfunction in neurological diseases

Prof. Dr. Joseph Claßen Department of Neurology, University Hospital;

- Somewhere over the rainbow - between brain and behavior

Dr. Sofie Louise Valk, Otto Hahn Group Cognitive Neurogenetics, MPI-CBS; Institute of Neuroscience and Medicine, Research Centre Jülich;

- “Messy business” - Bridging the gap between standardization and validity in psychotherapy research

Prof. Dr. Cornelia Exner, Wilhelm Wundt Institute for Psychology, Faculty of Life Sciences.

15:00 Coffee Break + posters

15:20 “Mismatch responses to sound source elevation deviants in mice”

Alessandro Braga, Institute of Biology, Faculty of Life Sciences;

15:35 “*Macaca nemestrina* in oil palm plantations: changes in primate sociality under human impact”

Dr. Anna Holzner, Institute of Biology, Faculty of Life Sciences; German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig; Department of Human Behavior, Ecology and Culture, MPI-EVA;

15:50 “Suppression and Omission – Two of the same or totally different?”
Valentina Tast, Wilhelm Wundt Institute for Psychology, Faculty of Life Sciences.

16:05 Poster session + coffee

17:00 Keynote Lecture

“Dentate gyrus circuits for encoding, retrieval and discrimination of episodic memories”

Prof. Dr. **Marlene Bartos**, Institute for Physiology, Medical Faculty, University of Freiburg.

18:30 Guided tour of the Federal Administrative Court (das Bundesverwaltungsgericht).