

Brain Dynamics Scientific Day

07.10.2022



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

Poster presentations

1. **Aravamudhan Aishwarya** (AG Kittel, Institute of Biology, Faculty of Life Sciences)

Rab3 is required for olfactory learning;

2. **Beltran Velandia Ferney** (AG Bogdan, Institute of Informatics, Faculty of Mathematics and Computer Science)

Modelling the olfactory system using Spiking Neural Networks with Synaptic Dynamics to + drifting in electronic noses;

3. **Bluhm Alexandra** (AG Roßner, Paul Flechsig Institute for Brain Research, Medical Faculty)

Just another new post-translational modification of α -Synuclein in Synucleinopathies?

4. **Dr. Bornschein Grit** (AG Schmidt, Carl Ludwig Institute of Physiology, Medical Faculty)

Quantifying the synaptic Ca^{2+} -binding kinetics of Synaptotagmin-1, the Ca^{2+} sensor for transmitter release in the forebrain;

5. **Bracher Angelika Johanna** (AG White/von Klitzing, Department of Paediatric Psychiatry, Psychotherapy and Psychosomatics, University Hospital)

Too much in'sync? Investigating trust and synchrony in caregiver – adolescent dyads with maltreatment experience;

6. **Braga Alessandro** (AG Schönwiesner, Institute of Biology, Faculty of Life Sciences)

Mismatch responses to sound source elevation deviants in mice;

7. **Dabbagh Alhuda** (AG Claßen/Rumpf, Department of Neurology, University Hospital)

Effects of post-training transcranial direct current stimulation on motor consolidation and dorsal premotor cortex – primary motor cortex interaction: a resting-state EEG study;

8. **Gerstner Florian** (AG Simon, Carl Ludwig Institute of Physiology, Medical Faculty)

Cerebellar pathology in two mouse models for spinal muscular atrophy;

9. **Großjohann Alexandra** (AG Thum, Institute of Biology, Faculty of Life Sciences)
Octopaminergic signaling during locomotion behavior of *Drosophila melanogaster* larvae;
10. **Dr. Kaas Thomas** (AG Hallermann, Carl Ludwig Institute of Physiology, Medical Faculty)
Human iPSC-derived neurons have large presynaptic action potentials;
11. **Kirmann Toni** (AG Hallermann, Carl Ludwig Institute of Physiology, Medical Faculty)
NMDA-receptor-Fc fusion constructs neutralize anti-NMDA receptor antibodies;
12. **Lamberty Marius** (AG Kittel, Institute of Biology, Faculty of Life Sciences)
The secretory pathway protein Sec31 controls composition and function of the presynaptic active zone;
13. **Lehning Maria** (AG Stassart, Paul Flechsig Institute of Neuropathology, University Hospital)
The role of inefficient demyelination for axonal integrity in models of toxic and autoimmune demyelination;
14. **Dr. Leuthold David** (AG Tal, Department of Bioanalytical Ecotoxicology, Helmholtz Centre for Environmental Research – UFZ GmbH)
A novel battery of behavior-based assays in larval zebrafish and its potential to elucidate neurodevelopmental toxicity mechanisms with a focus on deficits in learning and memory;
15. **Liebmann Maximilian** (AG Hirrlinger, Carl Ludwig Institute of Physiology, Medical Faculty)
Investigations on the pathophysiology of asparagine synthetase-deficiency induced microcephaly;
16. **Lüttig Anika** (AG Richter, Institute of Pharmacology, Pharmacy and Toxicology, Faculty of Veterinary Medicine)
Changes of brevicin in animal models of dystonia;
17. **Pilaszanovich Jakab** (AG Schönwiesner, Institute of Biology, Faculty of Life Sciences)
Cortical encoding of auditory distance;
18. **Richter Vincent** (AG Thum, Institute of Biology, Faculty of Life Sciences)
Structure and function of larval knob sensilla;
19. **Riedl Juliane** (AG Exner, Wilhelm Wundt Institute for Psychology, Faculty of Life Sciences)
Detecting Malingered Memory Deficits with the Word Completion Memory Test - First Data of a Revised German Version;
20. **Roost Michelle** (AG Jost, Max Planck Institute for Mathematics in the Sciences)
Predicting performances in cognitive tests from fMRI data with discrete curvature;
21. **Schulz Anja** (AG Richter, Institute of Pharmacology, Pharmacy and Toxicology, Faculty of Veterinary Medicine)
In vivo optogenetic inhibition of striatal parvalbumin-reactive interneurons: Future perspectives for optodialysis studies in DYT1 knock-in mice;

22. **Schwarze Max** (AG Schmidt, Carl Ludwig Institute of Physiology, Medical Faculty)

Area-specific differentiation of neocortical synaptic coupling distance;

23. **Tast Valentina** (AG Schröger, Wilhelm Wundt Institute for Psychology, Faculty of Life Sciences)

Suppression and Omission – Two of the same or totally different?

24. **Wender Magdalena** (AG Schmidt, Carl Ludwig Institute of Physiology, Medical Faculty)

N-type calcium channels boost vesicle recruitment during sustained synaptic activity at mature parallel-fiber to Purkinje cell synapses.