

Brain Dynamics Graduate School



Newsletter – February ‘23

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Events

- **Brain Dynamics Seminar Series**

03.03. 12:00 online

Prof. Dr. Stefan Hallermann, Carl Ludwig Institute of Physiology, Medical Faculty, Leipzig

"Ketamine boosts presynaptic release at a central glutamatergic synapse".

17.03. 12:00 online

Prof. Dr. Anja Widdig, Institute of Biology, Faculty of Life Sciences & Department of Human Behaviour, Ecology and Culture, MPI for Evolutionary Anthropology, Leipzig

"The impact of realized relatedness on the evolution of primate sociality based on WGS data".

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events#c621680>

- **Guest lecture at the Department of Animal Physiology**

03.03. 15:00 Kleiner Hörsaal, Institute of Biology, Faculty of Life Sciences, Talstr. 33, 04103 Leipzig

Prof. Dr. Stephan J. Sigrist, Institute of Biology, Department of Biology, Chemistry and Pharmacy, Freie Universität Berlin

„Mechanisms and functions of active zone remodelling“

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/mechanisms-and-functions-of-active-zone-remodelling-2023-03-03>

News

- **New hope for treatment of rare metabolic disease**

Dr. med. Wolfgang Köhler from the Department of Neurology talks about the plans for a centre for myelin disorders at Leipzig University Hospital and the latest publication in the Lancet Neurology:

<https://www.uni-leipzig.de/en/newsdetail/artikel/neue-hoffnung-auf-therapie-bei-seltener-stoffwechselerkrankung-2023-01-19>

- **Marie Skłodowska-Curie Action funding for PD Dr. Zohreh Hosseinzadeh**

Marie Skłodowska-Curie - Doctoral Networks (MSCA-DN) project “Targeting RNA as an approach for treating retinal disease” (RETORNA), including PD Dr. Zohreh Hosseinzadeh from the Paul Flechsig Institute of Brain Research at the Medical Faculty, has been awarded 2.6 million euros (in German).

<https://www.uni-leipzig.de/newsdetail/artikel/zohreh-hosseinzadeh-erhaelt-europaeisches-forschungsstipendium-2023-01-31>

- **Depression in patients with premenstrual dysphoric disorder: increased serotonin transport in the brain**

Prof. Dr. Julia Sacher from the Max Planck Institute for Human Cognitive and Brain Sciences & Clinic for Cognitive Neurology, University Hospital talks about the latest publication in Biological Psychiatry, done in cooperation with the Department of Nuclear Medicine (in German):

<https://www.uni-leipzig.de/newsdetail/artikel/depression-vor-den-tagen-serotonin-transporter-im-gehirn-erhoeht-2023-02-02>

- **Congratulations to Dr. Philip Ruthig**

Brain Dynamics Graduate School member Philip Ruthig defended his doctoral thesis "Lateral Specializations of Microanatomy in the mammalian Auditory Cortex" at the Faculty of Life Sciences.

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/congratulations-to-dr-philip-ruthig-2023-02-14>

New members

We welcome one new doctoral student and her supervisor to the Brain Dynamics family:

➤ **Louisa Schmidt**

Research Group Grüneisen, Leipzig Research Center for Early Child Development, Faculty of Education

Research project: "Impact of prosocial and cooperative motivations on children's (unequal) norm enforcement".

<https://www.erzwiss.uni-leipzig.de/en/profile/mitarbeiter/louisa-nina-judith-sophie-schmidt>

Open positions

- **2 PhD positions in the research group Hosseinzadeh at the Paul Flechsig Institute**

The laboratory of PD Dr. Zohreh Hosseinzadeh at the Paul Flechsig Institute of Brain Research and Neuropathology is looking for two doctoral students to work in retina research (f/m/d). Positions are funded through an ERC grant and the Marie Skłodowska Curie - Doctoral Networks (MSCA-DN) project RETORNA.

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/open-phd-position-in-the-research-group-hosseinzadeh-2023-02-14-1>

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/open-phd-position-in-the-research-group-hosseinzadeh-2023-02-14>.

Latest publications

➤ Research group **Eilers / Hirrlinger**

Transient astrocytic accumulation of fluorescein during spreading depolarizations.

Schoknecht K, Hirrlinger J, Eilers J.

Neurobiol Dis. 2023 Mar; 178: 106026. doi: 10.1016/j.nbd.2023.106026.

➤ Research group **Grüneisen**

Prospection and delay of gratification support the development of calculated reciprocity.

Grueneisen S, Leimgruber KL, Vogt RL, Warneken F.
Cognition. 2023 Jan 23; 234:105369. doi: 10.1016/j.cognition.2023.105369.

➤ Research group **Müller**

Global attentional selection of visual features is not associated with selective modulation of posterior alpha-band activity.

Gundlach C, Forschack N, Müller MM.
Psychophysiology. 2023 Jan 3:e14244. doi: 10.1111/psyp.14244.

Attentional capture is modulated by stimulus saliency in visual search as evidenced by event-related potentials and alpha oscillations.

Forschack N, Gundlach C, Hillyard S, Müller MM.
Atten Percept Psychophys. 2022 Dec 16. doi: 10.3758/s13414-022-02629-6.

Dynamics of attentional allocation to targets and distractors during visual search.

Forschack N, Gundlach C, Hillyard S, Müller MM.
Neuroimage. 2022 Dec 1;264:119759. doi: 10.1016/j.neuroimage.2022.119759.

➤ Research group **White**

Charting the social neuroscience of human attachment (SoNeAt).

White L, Kungl M, Vrticka P.
Attach Hum Dev. 2023 Feb 2:1-18. doi: 10.1080/14616734.2023.2167777.