

Brain Dynamics Graduate School



Newsletter – May '23

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Events

- **Guest lecture at the MPI CBS**

19.05. 13:00 hybrid, online & MPI CBS, Lecture Hall (C101), Stephanstraße 1A, 04103 Leipzig

Prof. Dr. Patrick Haggard, Institute of Cognitive Neuroscience, University College London, UK

“Somatosensory Qualities: Blix, Müller and beyond”.

<https://www.cbs.mpg.de/events/34316/338738>

- **Clinical and neuroscientific colloquium (Klinisch-Neurowissenschaftliches Kolloquium)**

24.05. 17:15 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Muthuraman Muthuraman, Department of Neurology, University Hospital Würzburg

„Entwicklung und Anwendung biostatistischer Methoden zur Verbesserung der prädiktiven Modellierung klinischer Daten für die Präzisionsmedizin“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5561.aspx

14.06. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Peter Berlit, Deutsche Gesellschaft für Neurologie

„Neurologische Folgesymptome nach Covid-19“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5562.aspx

- **Mind Meeting**

25.05. 15:30 hybrid, online & MPI CBS, Lecture Hall (C101), Stephanstraße 1A, 04103 Leipzig

Prof. Christian Büchel, Institute of Systems Neuroscience, University Hospital Hamburg-Eppendorf

“How expectations and their violations shape perception”.

<https://doellerlab.com/buechel/>

- **Brain Dynamics Seminar Series**

26.05. 12:00 online

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

"Hippocampal network oscillations are shaped by activated ATP-sensitive potassium channels of fast-spiking interneurons".

09.06. 12:00 online

Prof. Dr. Matthias Müller, Wilhelm Wundt Institute of Psychology, Faculty of Life Sciences, Leipzig University

"Frequency-tagged stimuli uncover basic neural mechanisms of feature-based attention in the human brain".

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events#c621683>

- **Biochemical Colloquium**

30.05. 16:00 Kleiner Hörsaal, Institute of Biochemistry, Faculty of Life Sciences, Brüderstr. 34, 04103 Leipzig

Prof. Dr. Andreas Reiner, Faculty of Biology and Biotechnology, Ruhr University Bochum,

“tba”

<https://www.uni-leipzig.de/newsdetail/artikel/biochemisches-kolloquium-2023-01-24-4>

- **Sommersymposium Neuropalliativmedizin Leipzig**

09 - 10.06. University Hospital Leipzig, House 4: Seminar room G1024,
Liebigstraße 20, 04103 Leipzig

Neuropalliativmedizin

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5740.aspx

- **Max Planck School of Cognition Colloquium**

12.06. 16:00 online

Prof. Dr. Nikolaus Weiskopf, Department of Neurophysics, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

"Characterizing brain microstructure using magnetic resonance imaging: Towards in-vivo histology".

<https://www.cbs.mpg.de/events/34581/338738>

- **Leipzig School of Psychosocial Health**

14.06. 17:00 online

Prof. Dr. Steffi Riedel-Heller, Institute of Social Medicine, Occupational Health and Public Health, Leipzig University

"Einsamkeit und ihre Folgen für die körperliche und psychische Gesundheit".

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5691.aspx

News

- **Jung Career Advancement Award for Dr. Achmed Mrestani**

Dr. Achmed Mrestani from the Department of Neurology at the University Hospital Leipzig will receive a total of 210,000 euros over the next three years to finance his own research project. The prize has been awarded for the research into the development of epilepsy and headache disorders, which Dr. Mrestani is doing as part of a collaboration between the Neurological Clinic and the Rudolf Schönheimer Institute of Biochemistry within the Clinician Scientist Program (in German):

<https://www.uni-leipzig.de/newsdetail/artikel/forschung-zur-entstehung-von-epilepsie-und-kopfschmerzerkrankungen-ausgezeichnet-2023-05-05>

- **Science Speed Dating meetup**

The first informal brainstorming meetup of Brain Dynamics members took place on 26th April:

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/brain-dynamics-members-strengthening-the-scientific-network-2023-05-15>

- **Researchers advocate targeted education for those affected with Dementia and their families**

Prof. Dr. med. Steffi G. Riedel-Heller and Dr. Andrea Zülke from the Institute of Social Medicine, Occupational Health and Public Health at the Faculty of Medicine talk about their latest publication in 'Plos One' (in German):

<https://www.uni-leipzig.de/newsdetail/artikel/demenz-befuerwortung-von-fruehdiagnostik-ruecklaeufig-wissen-zu-risikofaktoren-ausbaufachig-2023-05-15>

New members

We welcome two new doctoral students to the Brain Dynamics family:

➤ **Nathanael Otte**

Research Group Simon, Carl Ludwig Institute of Physiology, Medical Faculty

Research project: "Mechanism of motoneuron degeneration in a mouse model of spinal muscular atrophy with respiratory distress type 1"

<https://physiologie.medizin.uni-leipzig.de/mobile.php?en,id200>

➤ **Prarthita Sharma**

Research Group Claßen, Clinic and Policlinic of Neurology, University Hospital Leipzig

Research project: "Investigating the dynamics of cross-frequency phase amplitude coupling during movement".

<https://www.uniklinikum-leipzig.de/einrichtungen/neurologie/Seiten/forschung-motorik.aspx>

Latest publications

- Brain Dynamics graduate student **Magdalena Wender** and research groups **Schmidt / Eilers / Hallermann**

Ca_v2.2 channels sustain vesicle recruitment at a mature glutamatergic synapse.

Wender M, Bornschein G, Brachtendorf S, Hallermann S, Eilers J, Schmidt H.
J Neurosci. 2023 Apr 26; JN-RM-1279-22. doi: 10.1523/JNEUROSCI.1279-22.2023.

➤ Research group **Claßen**

Characterisation and differential diagnosis of neurological complications in adults with phenylketonuria: literature review and expert opinion.

Merkel M, Berg D, Brüggemann N, Classen J, Mainka T, Zittel S, Muntau AC.
J Neurol. 2023 Apr 20. doi: 10.1007/s00415-023-11703-4.

➤ Research groups **Eippert / Weiskopf**

Reliability of resting-state functional connectivity in the human spinal cord: assessing the impact of distinct noise sources.

Kaptan M, Horn U, Vannesjo SJ, Mildner T, Weiskopf N, Finsterbusch J, Brooks JCW, Eippert F.
Neuroimage. 2023 May 2; 120152. doi: 10.1016/j.neuroimage.2023.120152.

➤ Research group **Schönwiesner**

Editorial: Insights in auditory cognitive neuroscience: 2021.

Schönwiesner M, Alain C.
Front Neurosci. 2023 Apr 11; 17:1192459. doi: 10.3389/fnins.2023.1192459.

➤ Research group **Schröger**

Perceptual learning of random acoustic patterns: Impact of temporal regularity and attention.

Ringer H, Schröger E, Grimm S.
Eur J Neurosci. 2023 Apr 24. doi: 10.1111/ejn.15996.

➤ Research groups **Schröger / Müller**

Mechanisms of sustained perceptual entrainment after stimulus offset.

Aharoni M, Breska A, Müller MM, Schröger E.
Eur J Neurosci. 2023 May 7. doi: 10.1111/ejn.16032.