

Brain Dynamics Graduate School



Newsletter – November '22

*Let us know if you have an announcement, upcoming event, new publication or job posting!
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Events

- **Brain Dynamics Seminar Series** upcoming talks:

02.12. 12:00 online

PD Dr. Veronica Witte, Department of Neurology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig; Cognitive Neurology, University Hospital, Leipzig

"Impact of obesity and diet on brain structure and function: a gut–brain–body crosstalk".

16.12. 12:00 online

Prof. Dr. Sebastian Grüneisen, Early Child Development and Culture, Faculty of Education, University Leipzig

"Coordinated decision-making in young children".

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

- **MPI CBS CoCoNUT Meeting**

02.12. 15:00 online

Greta Tuckute, Department of Brain and Cognitive Sciences, McGovern Institute for Brain Research MIT, Cambridge, MA, USA

“Many but not all deep neural network audio models capture brain responses and exhibit hierarchical region correspondence”

16.12. 16:00 online

Prof. Drew Linsley, Cognitive, Linguistic & Psychological Sciences, Brown University, Providence, RI, USA

“Harmonizing the object recognition strategies of deep neural networks with humans”

<https://www.cbs.mpg.de/en/cbs-coconut>

- **Guest lectures at the MPI CBS**

02.12. 14:00 MPI CBS, Wilhelm Wundt Room (A400), Stephanstraße 1A, 04103 Leipzig

Dr. Bevil Conway, Laboratory of Sensorimotor Research, National Eye Institute, Bethesda, MD, USA

“Principles of Neuroscience in color”

<https://www.cbs.mpg.de/events/32905/338738>

06.12. 15:15 MPI CBS, Wilhelm Wundt Room (A400), Stephanstraße 1A, 04103 Leipzig

Dr. Nicole Seiberlich, Department of Radiology, Michigan Institute for Imaging Technology and Translation, University of Michigan, Ann Arbor, MI, USA

“Magnetic Resonance Fingerprinting: Challenges and Opportunities”

<https://www.cbs.mpg.de/events/32983/338738>

07.12. 14:00 MPI CBS, Wilhelm Wundt Room (A400), Stephanstraße 1A, 04103 Leipzig

Dr Tobias Sommer, Department of Systems Neuroscience, University Medical Center Hamburg-Eppendorf

“The assimilation of novel information into schemata and its efficient consolidation”

<https://www.cbs.mpg.de/events/32948/338738>

- **MPI CBS Mind Meeting**

12.12. 15:30 online

Prof. Yael Niv, Princeton Neuroscience Institute, Princeton University, NJ, USA

“tba”.

<https://doellerlab.com/mind-meeting-2022/>

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

14.12. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Erdem Güresir, Department of Neurosurgery, University Hospital Leipzig

„Neurochirurgie – Aktuelles in Klinik und Forschung“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5484.aspx

News

- **BMBF funding for Prof. Dr. Ruth Stassart and Dr. Robert Fledrich**

Prof. Dr. Ruth Stassart and Dr. Robert Fledrich from the Medical Faculty to receive funding from the Federal Ministry of Education as part of the 'Lipid Immune Neuropathy Consortium' (LINC) (link in German):

<https://www.uni-leipzig.de/newsdetail/artikel/wenn-haende-und-fuesse-taub-sind-2022-11-24>

- **ERC Starting Grant for Dr. Zohreh Hosseinzadeh**

Dr. Zohreh Hosseinzadeh from the Paul Flechsig Institute – Centre for Neuropathology and Brain Research at the Medical Faculty has been awarded almost 1.5 million euros for research on the treatment of retinal diseases:

<https://www.uni-leipzig.de/en/newsdetail/artikel/erc-starting-grant-for-dr-zohreh-hosseinzadeh-2022-11-22>

New members

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

- **Emma Bailey**

Research Group Eippert, Pain Perception, Max Planck Institute for Human Cognitive and Brain Sciences

Research project: " Non-Invasive Electrophysiology in the Human Spinal Cord"

<https://www.cbs.mpg.de/person/bailey/934319>

Open positions

- **2 postdoc positions open in the research group Jais, Helmholtz Institute for Metabolic, Obesity and Vascular Research**

The laboratory of Dr. Alexander Jais at the Helmholtz Institute for Metabolic, Obesity and Vascular Research (Helmholtz-Institut für Metabolismus-, Adipositas- und Gefäßforschung, HI-MAG) at the University of Leipzig is looking for two postdoc positions in neuronal regulation of energy homeostasis and in central nervous system control of glucose homeostasis. (f/m/x)

<https://jobs.helmholtz-muenchen.de/jobposting/02df26ce3724adc35b76991ce5f69bf5d9990e6f0>

<https://jobs.helmholtz-muenchen.de/jobposting/adfe4aa012dc25b2e94257abd1c0b19dbfc065990>

Latest publications

- Brain Dynamics graduate students **Jannik Büttner** and **Florian Gerstner** and research groups **Simon / Hallermann / Blanco-Redondo**

p53-dependent c-Fos expression is a marker but not executor for motor neuron death in spinal muscular atrophy mouse models.

Buettner JM, Sowoidnich L, Gerstner F, Blanco-Redondo B, Hallermann S, Simon CM. *Front Cell Neurosci.* 2022 Nov 7;16:1038276. doi: 10.3389/fncel.2022.1038276.

- Brain Dynamics graduate student **Cheslie Klein** and research groups **Grosse Wiesmann / Friederici**

Children's syntax is supported by the maturation of BA44 at 4 years, but of the posterior STS at 3 years of age.

Klein CC, Berger P, Goucha T, Friederici AD, Grosse Wiesmann C. *Cereb Cortex.* 2022 Nov 20:bhac430. doi: 10.1093/cercor/bhac430.

- Brain Dynamics graduate student **Anika Lüttig** and research group **Richter**

Deep brain stimulation in animal models of dystonia.

Perl S, Lüttig A, Köhling R, Richter A.
Neurobiol Dis. 2022 Oct 25;175:105912. doi: 10.1016/j.nbd.2022.105912.

- Brain Dynamics graduate student **Charlotte Schulz** and research groups **White / von Klitzing**

From Maltreatment to Psychiatric Disorders in Childhood and Adolescence: The Relevance of Emotional Maltreatment.

Schlenzog-Schuster F, Keil J, Von Klitzing K, Gniewosz G, Schulz CC, Schlesier-Michel A, Mayer S, Stadelmann S, Döhnert M, Klein AM, Sierau S, Manly JT, Sheridan MA, White LO.
Child Maltreat. 2022 Nov 25:10775595221134248. doi: 10.1177/10775595221134248.

- Research group **Bechmann**

IGF1R expression by adult oligodendrocytes is not required in the steady-state but supports neuroinflammation.

Locatelli G, Marques-Ferreira F, Katsoulas A, Kalaitzaki V, Krueger M, Ingold-Heppner B, Walthert S, Sankowski R, Prazeres da Costa O, Dolga A, Huber M, Gold M, Culmsee C, Waisman A, Bechmann I, Milchevskaya V, Prinz M, Tresch A, Becher B, Buch T.
Glia. 2022 Nov 17. doi: 10.1002/glia.24299.

Is microglial dystrophy a form of cellular senescence? An analysis of senescence markers in the aged human brain.

Neumann P, Lenz DE, Streit WJ, Bechmann I.
Glia. 2022 Oct 26. doi: 10.1002/glia.24282.

- Research group **Lippmann**

Status epilepticus induces chronic silencing of burster and dominance of regular firing neurons during sharp wave-ripples in the mouse subiculum.

Lippmann K, Kluft ZJ, Salar S, Hollnagel JO, Valero M, Maslarova A.
Neurobiol Dis. 2022 Nov 21;175:105929. doi: 10.1016/j.nbd.2022.105929.