

Brain Dynamics Graduate School



Newsletter – January '23

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Events

- **Brain Dynamics Seminar Series**

20.01. 12:00 online

Dr. Alexander Jais, Helmholtz Institute for Metabolic, Obesity and Vascular Research (HI-MAG) of the Helmholtz Zentrum München at the University of Leipzig and University Hospital Leipzig

"*Prepronociceptin*-expressing neurons induce overeating and mediate energy expenditure".

03.02. 12:00 online

Prof. Dr. Gesa Hartwigsen, Cognitive and Biological Psychology, Faculty of Life Sciences; Lise Meitner Research Group Cognition and Plasticity, MPI for Human Cognitive and Brain Sciences

"Short-term plasticity in neural networks for cognition – insights from healthy young, aging, and lesioned brains".

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

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

25.01. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Thorsten Steiner, Department of Neurology, Klinikum Frankfurt Höchst

„Intrazerebrale Blutung: Leitlinien und aktuelle Entwicklungen“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5486.aspx

08.02. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Christine Stadelmann-Nessler, Department of Neuropathology, University Medical Center Göttingen

„Mechanismen der Krankheitsprogression bei Erkrankungen der weißen Substanz“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5487.aspx

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

09.02. 10:00 Kleiner Hörsaal, Institute of Biology, Faculty of Life Sciences, Talstr. 33, 04103 Leipzig

Prof. Dr. Thomas Roeder, Molecular Physiology, Institute of Zoology, Faculty of Mathematics and Natural Sciences, Kiel University

„Nutrition and hormones as determinants of metabolism and organ structure in *Drosophila*“

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/nutrition-and-hormones-as-determinants-of-metabolism-and-organ-structure-in-drosophila-2023-02-09>

- **Max Planck School of Cognition Colloquium**

13.02. 16:00 online

Prof. Yee Lee Shing, Department of Psychology, Goethe-Universität Frankfurt am Main

"Memory and predictive processing across the lifespan".

<https://www.cbs.mpg.de/events/33216/338738>

News

- **The Research Academy Leipzig turns into the Graduate Academy Leipzig**

Doctoral researchers and early postdocs at Leipzig University can become members under certain conditions from 1st March 2023.

<https://www.ga.uni-leipzig.de/en/graduate-academy-leipzig/news-portal/newsdetail/artikel/the-research-academy-leipzig-turns-into-the-graduate-academy-leipzig-2023-01-16>

- **Congratulations to Dr. Ole Bialas**

The first doctoral student enrolled in Brain Dynamics Graduate School is also the first one to defend a PhD thesis. Ole Bialas received the distinction *summa cum laude* for his doctoral thesis "An electroencephalographic investigation of the encoding of sound source elevation in the human cortex".

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/congratulations-to-dr-ole-bialas-2023-01-18>

- **From emotional maltreatment to psychiatric disorders in childhood and adolescence**

Dr. Lars White, Dr. Franziska Schlenzog-Schuster and Dr. Jan Keil from the Department of Child and Adolescent Psychiatry, Psychotherapy and Psychosomatics talk about their latest publication:

<https://www.uni-leipzig.de/en/newsdetail/artikel/from-emotional-maltreatment-to-psychiatric-disorders-in-childhood-and-adolescence-2023-01-12>

- **Strengthening academic standards with clear rules**

Maria Melms from the Department of Research Services and head of the Office of Ombudspersons explains the most important points of the new version of the Statutes on Safeguarding Good Academic Practice:

<https://magazin.uni-leipzig.de/en/en-detail-leipziger-universitaetsmagazin/artikel/strengthening-academic-standards-with-clear-rules-2023-01-05>

New members

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

➤ **Sofie Seiffer**

Research Group Bechmann, Institute of Anatomy, Medical Faculty

Research project: "Regulation of GPR34 in microglia during Alzheimer's disease".

<https://anatomie.medizin.uni-leipzig.de/neuroimmunology.html>

Latest publications

➤ Brain Dynamics graduate student **Florian Gerstner** and research group **Simon**

Plastin 3 rescues cell surface translocation and activation of TrkB in spinal muscular atrophy.

Hennlein L, Ghanawi H, Gerstner F, Palominos García E, Yildirim E, Saal-Bauernschubert L, Moradi M, Deng C, Klein T, Appenzeller S, Sauer M, Briese M, Simon C, Sendtner M, Jablonka S. *J Cell Biol.* 2023 Mar 6;222(3):e202204113. doi: 10.1083/jcb.202204113. Epub 2023 Jan 6.

➤ Brain Dynamics graduate student **Anja Schulz** and research group **Richter**

In vivo optogenetic inhibition of striatal parvalbumin-reactive interneurons induced genotype-specific changes in neuronal activity without dystonic signs in male DYT1 knock-in mice.

Schulz A, Richter F, Richter A. *J Neurosci Res.* 2022 Dec 22. doi: 10.1002/jnr.25157.

➤ Research group **Bechmann**

Spatial proteomics in three-dimensional intact specimens.

Bhatia HS, Brunner AD, Öztürk F, Kapoor S, Rong Z, Mai H, Thielert M, Ali M, Al-Maskari R, Paetzold JC, Kofler F, Todorov MI, Molbay M, Kolabas ZI, Negwer M, Hoehner L, Steinke H, Dima A, Gupta B, Kaltenecker D, Caliskan ÖS, Brandt D, Kraemer N, Müller S, Lichtenthaler SF, Hellal F, Bechmann I, Menze B, Theis F, Mann M, Ertürk A. *Cell.* 2022 Dec 22; 185(26):5040-5058.e19. doi: 10.1016/j.cell.2022.11.021.

➤ Research groups **Bechmann / Morawski**

Inter-hemispherical comparison of tau-pathology in the human temporal lobe.

Milani A, Morawski M, Bechmann I. *Ann Anat.* 2022 Dec 30; 246:152042. doi: 10.1016/j.aanat.2022.152042.

➤ Research group **Hirrlinger**

Cell types and synchronous-activity patterns of inspiratory neurons in the preBötzing complex of mouse medullary slices during early postnatal development.

Oke Y, Miwakeichi F, Oku Y, Hirrlinger J, Hülsmann S.
Sci Rep. 2023 Jan 11; 13(1):586. doi: 10.1038/s41598-023-27893-w.

➤ Research groups **Möller / Geyer / Morawski**

High-resolution magnetization-transfer imaging of post-mortem marmoset brain: Comparisons with relaxometry and histology.

Marschner H, Pampel A, Müller R, Reimann K, Bock N, Morawski M, Geyer S, Möller HE.
Neuroimage. 2023 Jan 4; 119860. doi: 10.1016/j.neuroimage.2023.119860. Online ahead of print.

➤ Research groups **Roßner / Morawski**

Jacob-induced transcriptional inactivation of CREB promotes A β -induced synapse loss in Alzheimer's disease.

Grochowska KM, Gomes GM, Raman R, Kaushik R, Sosulina L, Kaneko H, Oelschlegel AM, Yuanxiang P, Reyes-Resina I, Bayraktar G, Samer S, Spilker C, Woo MS, Morawski M, Goldschmidt J, Friese MA, Rossner S, Navarro G, Remy S, Reissner C, Karpova A, Kreutz MR.
EMBO J. 2023 Jan 3:e112453. doi: 10.15252/embj.2022112453.

➤ Research group **Schröger**

Auditory representations for long lasting sounds: Insights from event-related brain potentials and neural oscillations.

Weise A, Grimm S, Maria Rimmel J, Schröger E.
Brain Lang. 2023 Jan 7;237:105221. doi: 10.1016/j.bandl.2022.105221.

➤ Research groups **Stassart / Fledrich**

Schwann cell functions in peripheral nerve development and repair.

Bosch-Queralt M, Fledrich R, Stassart RM.
Neurobiol Dis. 2023 Jan; 176:105952. doi: 10.1016/j.nbd.2022.105952. Epub 2022 Dec 7.