

Brain Dynamics Graduate School



Newsletter – November ‘23

*Let us know if you have an announcement, upcoming event, new publication or job posting!
Send your information (with a link if applicable) to jovanovic@uni-leipzig.de.
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<https://lists.uni-leipzig.de/mailman/listinfo/neuroscience>

Events

- **Max Planck School of Cognition Colloquium**

20.11. 16:00 online

Prof. Dr. Arno Villringer, Department of Neurology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig & Clinic for Cognitive Neurology, University Hospital Leipzig

"Heart-brain interactions: Of love and death".

<https://www.cbs.mpg.de/events/36069/338738>

- **Guest lecture at the MPI CBS**

23.11. 15:00 hybrid, online & MPI CBS, Wilhelm Wundt Room (A400), Stephanstraße 1A, 04103 Leipzig

Prof. Dr. Markus Ploner, TUM School of Medicine and Health, Technical University Munich

“Developing EEG biomarkers of brain disorders”.

<https://www.cbs.mpg.de/events/36059/338738>

- **BILL Seminar Series**

23.11. 17:00 Kleiner Hörsaal, Institute of Biology, Faculty of Life Sciences, Talstr. 33, 04103 Leipzig

Prof. Dr. Oliver Wirths, Department of Psychiatry, University Medical Center Göttingen,

“Role of Abeta4-x peptides and their generating proteases in Alzheimer's disease”

<https://www.uni-leipzig.de/en/event-detail/event/role-of-abetax-peptides-and-their-generating-proteases-in-alzheimers-disease>

- **Language Circle Seminar**

29.11. 13:00 hybrid, online & MPI CBS, Lecture Hall (C101), Stephanstraße 1A, 04103 Leipzig

Dr Johanna Rimmele, Department of Neuroscience, Max-Planck-Institute for Empirical Aesthetics, Frankfurt am Main

"Individual differences in auditory-motor interactions shape speech processing".

<https://www.cbs.mpg.de/language-circle>

- **Klinisch-Neurowissenschaftliches Kolloquium: Minisymposium Demenzen**

29.11. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Markus Otto, University Clinic and Polyclinic for Neurology, Martin-Luther-University Halle-Wittenberg, Halle

„Biomarker-basierte Frühdiagnose: Was ist möglich - was ist nötig?“;

Prof. Dr. Dorothee Saur, Department of Neurology, University Hospital Leipzig

„Therapiestudien: Ist der Durchbruch gelungen?“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5881.aspx

- **Brain Dynamics Seminar Series**

01.12. 12:00 Paul Flechsig Institute - Center of Neuropathology and Brain Research, Room 3093, Liebigstraße 19 (Haus C), 04103 Leipzig

Prof. Dr. Dr. Markus Morawski, Paul Flechsig Institute - Center of Neuropathology and Brain Research, Medical Faculty, University Leipzig

"Potential function of perineuronal nets in the CNS".

15.12. 12:00 Paul Flechsig Institute - Center of Neuropathology and Brain Research, Room 3093, Liebigstraße 19 (Haus C), 04103 Leipzig

Dr. Falk Eippert, Max Planck Research Group Pain Perception, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig

"tba".

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

- **Cognitive Neurology Lecture**

01.12. 13:00 hybrid, online & MPI CBS, Wilhelm Wundt Room (A400),
Stephanstraße 1A, 04103 Leipzig

Prof. Dr. Marc Tittgemeyer, Max Planck Institute for Metabolism Research,
Cologne

"State-dependent control of behaviour: Intersection of metabolic pathways with
circuit mechanisms of motivated behaviour "

<https://www.cbs.mpg.de/events/36073/338738>

News

- **Brain Dynamics Pilot Project grants awarded**

Five small-scale collaborative proposals by Brain Dynamics doctoral candidates and
postdocs to receive Pilot Project funding:

[https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-
events/newsdetail/artikel/pilot-project-grants-awarded-2023-11-17](https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/pilot-project-grants-awarded-2023-11-17)

- **Don't choose a random pub in the middle of nowhere**

After studying work Christmas parties, organizational psychologist Prof. Dr. Hannes
Zacher offers tips for a successful event:

[https://www.uni-leipzig.de/en/newsdetail/artikel/dont-choose-a-random-pub-in-the-middle-of-
nowhere-2023-11-09](https://www.uni-leipzig.de/en/newsdetail/artikel/dont-choose-a-random-pub-in-the-middle-of-nowhere-2023-11-09)

- **Call for Abstracts – ECCN 2024**

The upcoming 12th European Conference on Clinical Neuroimaging will be held in
Leipzig in March 2024. The call for abstracts is aimed primarily at young scientists
who conduct research close to clinical neuroimaging, especially using
molecular/functional methods. The submission deadline is December 11th:

<https://www.euroccn.com/>

- **Call for Abstracts – Research Festival**

The 17th Leipzig Research Festival for Life Sciences will be held in the Clinical
Trial Center of the Faculty of Medicine on January 18th, 2024. The call ends on
November 26th:

<https://conference.uni-leipzig.de/researchfestival/en/>

New members

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

➤ **Hadiseh Hosseinnia**

Research Group Schwab, Paul Flechsig Institute - Center of Neuropathology and Brain Research, Medical Faculty

Research project: “Molecular mechanisms of GABAergic network integration and myelination”

<https://www.uniklinikum-leipzig.de/einrichtungen/pfi/en/about/team>

➤ **Michaela Schleicher**

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

Research project: “Characterization of histopathological changes in the geriatric feline brain to validate the domestic cat as a natural Alzheimer's disease model”

<https://physiologie.medizin.uni-leipzig.de/?en,id59>

➤ **Melanie Schulz**

Research Group Morawski, Paul Flechsig Institute - Center of Neuropathology and Brain Research, Medical Faculty

Research project: “Extracellular matrix in the cochlea of the mouse”

<https://www.uniklinikum-leipzig.de/einrichtungen/pfi/en/about/team>

➤ **Miriam Simon**

Research Group Widdig, Department of Human Behaviour, Ecology and Culture, Max Planck Institute for Evolutionary Anthropology & Behavioural Ecology Research Group, Institute of Biology, Faculty of Life Sciences

Research project: “Impact of pesticides on the gut microbiome of mammalian wildlife foraging in oil palm plantations”

<https://www.eva.mpg.de/pbe/people/>

Latest publications

- Brain Dynamics postdoc **Philipp Kuhnke** and research group **Hartwigsen**

Disrupted network interactions serve as a neural marker of dyslexia.

Turker S, Kuhnke P, Jiang Z, Hartwigsen G.

Commun Biol. 2023 Nov 3; 6(1): 1114. doi: 10.1038/s42003-023-05499-2.

- Brain Dynamics postdoc **Anika Lüttig** and research group **Richter**

Short-term stimulations of the entopeduncular nucleus induce cerebellar changes of c-Fos expression in an animal model of paroxysmal dystonia.

Lüttig A, Perl S, Zetsche M, Richter F, Franz D, Heerdegen M, Köhling R, Richter A.

Brain Res. 2023 Nov 11: 148672. doi: 10.1016/j.brainres.2023.148672.

- Brain Dynamics postdocs **Jana Nerlich** and **Grit Bornschein** and research groups **Hallermann / Eilers / Kittel / Schmidt**

Fully-primed slowly-recovering vesicles mediate presynaptic LTP at neocortical neurons.

Weichard I, Taschenberger H, Gsell F, Bornschein G, Ritzau-Jost A, Schmidt H, Kittel RJ, Eilers J, Neher E, Hallermann S, Nerlich J.

Proc Natl Acad Sci U S A. 2023 Oct 24; 120(43): e2305460120. doi: 10.1073/pnas.2305460120.

- Research group **Grosse Wiesmann**

Evidence against implicit belief processing in a blindfold task.

Rothmaler K, Grosse Wiesmann C.

PLoS One. 2023 Nov 13; 18(11): e0294136. doi: 10.1371/journal.pone.0294136.

- Research group **Grüneisen**

Young children's adaptive partner choice in cooperation and competition contexts.

Grueneisen S, Török G, Wathiyage Don A, Ruggeri A.

Child Dev. 2023 Nov 10. doi: 10.1111/cdev.14036.

- Research groups **Knösche / Hartwigsen**

Modeling the effects of transcranial magnetic stimulation on spatial attention.

Jing Y, Numssen O, Weise K, Kalloch B, Buchberger L, Haueisen J, Hartwigsen G, Knösche TR.

Phys Med Biol. 2023 Oct 23; 68(21). doi: 10.1088/1361-6560/acff34.

➤ Research groups **Langenhan / Scholz / Ljaschenko**

Experimental modulation of physiological force application on leg joint neurons in intact *Drosophila melanogaster*.

Buhlan M, Ljaschenko D, Scholz N, Langenhan T.
Nat Protoc. 2023 Nov 9. doi: 10.1038/s41596-023-00907-7.

➤ Research group **Schröger**

Neural signatures of automatic repetition detection in temporally regular and jittered acoustic sequences.

Ringer H, Schröger E, Grimm S.
PLoS One. 2023 Nov 10; 18(11): e0284836. doi: 10.1371/journal.pone.0284836.

➤ Research group **Valk**

The regional variation of laminar thickness in the human isocortex is related to cortical hierarchy and interregional connectivity.

Saberi A, Paquola C, Wagstyl K, Hettwer MD, Bernhardt BC, Eickhoff SB, Valk SL.
PLoS Biol. 2023 Nov 9; 21(11): e3002365. doi: 10.1371/journal.pbio.3002365.