

# Brain Dynamics Graduate School



## Newsletter – December ‘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](mailto:jovanovic@uni-leipzig.de).  
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<https://lists.uni-leipzig.de/mailman/listinfo/neuroscience>

## Events

- **BILL Seminar Series**

**11.01.** 17:00 Kleiner Hörsaal, Institute of Biology, Faculty of Life Sciences, Talstr. 33, 04103 Leipzig

**Prof. Dr. Christian Henneberger**, Institute of Cellular Neurosciences, Medical Faculty, University of Bonn

“Multicellular control of plasticity in hippocampal circuits”

<https://www.uni-leipzig.de/en/event-detail/event/multicellular-control-of-plasticity-in-hippocampal-circuits>

- **Mind Meeting**

**18.01.** 15:30 Online

**Prof. Russell Epstein**, Department of Psychology, University of Pennsylvania, PA, USA

“Structuring the cognitive map”.

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

- **Brain Dynamics Seminar Series**

**19.01.** 12:00 Paul Flechsig Institute - Center of Neuropathology and Brain Research, Room 3093, Liebigstraße 19 (Haus C), 04103 Leipzig

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

"Dissecting neurovascular function in health and disease".

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events#c621679>

- **Klinisch-Neurowissenschaftliches Kolloquium**

**24.01.** 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

**Dr. Nicolai Franzmeier**, Institute for Stroke and Dementia Research, University Hospital, LMU Munich

„Mechanismen der Tau-Ausbreitung bei Alzheimer und primären Tauopathien“.

[https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung\\_5884.aspx](https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5884.aspx)

**30.01.** 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

**Prof. David Y. Hwang, MD**, Department of Neurology, School of Medicine, University of North Carolina, Chapel Hill, NC, USA

„Outcome Prognostication for Intracerebral Hemorrhage Patients: Guidelines and Future Directions“.

[https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung\\_6215.aspx](https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_6215.aspx)

- **Guest lecture at the MPI CBS**

**25.01.** 14:00 MPI CBS, Dorothea Erxleben Room (C004), Stephanstraße 1A, 04103 Leipzig

**Dr Marisa Nordt**, Research Group Developmental Cognitive Neuroscience, RWTH Aachen

“Cortical recycling in high-level visual cortex during childhood development”.

<https://www.cbs.mpg.de/events/36178/338738>

## News

- **Adipocytes support peripheral nerve repair**

Dr. Robert Fledrich from the Institute of Anatomy and Prof. Dr. Ruth Stassart from the Paul Flechsig Institute talk about their latest publication in ‘Cell Metabolism’:

<https://www.uni-leipzig.de/en/newsdetail/artikel/fettzellen-helfen-bei-der-reparatur-verletzter-nerven-2023-11-28>

- **Congratulations to Dr. Jannik Büttner**

The first Brain Dynamics Graduate School member to obtain Dr. med. title, Jannik Büttner defended his doctoral thesis "Pathologische Mechanismen der Sensomotorik in verschiedenen Mausmodellen für spinale Muskelatrophie" at the Faculty of Medicine:

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/congratulations-to-dr-jannik-buettner-2023-10-24>

- **Licenses available for the digital learning platform TwentyOne Skills**

Graduate Academy Leipzig is offering free licenses for the digital learning platform TwentyOne Skills. The licenses are valid from January until April (free of charge) and allow access to online courses and live events for doctoral researchers and early postdocs:

<https://www.ga.uni-leipzig.de/en/skills-development/digital-learning-platform-twentyoneskills>

## New members

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

- **Friedrich Zieger**

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

Research project: "The pathophysiology of glycine metabolism in ASNS mutation-induced microcephaly"

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

## Open position

- **Open PhD position in the research group Scholz**

The laboratory of Dr. Nicole Scholz at the Rudolf Schönheimer Institute of Biochemistry, Faculty of Medicine, University Leipzig is offering a PhD position in adhesion GPCR research embedded in the Collaborative Research Center 1423 „Structural Dynamics of GPCR activation and signaling“. (f/m/d)

## Latest publications

- Brain Dynamics doctoral candidate **Alexandra Bluhm** and research group **Roßner**

Young human alpha synuclein transgenic (BAC-SNCA) mice display sex- and gene-dose-dependent phenotypic disturbances.

Moceri S, Bäuerle N, Habermeyer J, Ratz-Wirsching V, Harrer J, Distler J, Schulze-Krebs A, Timotius IK, Bluhm A, Hartlage-Rübsamen M, Roßner S, Winkler J, Xiang W, Hörsten SV. Behav Brain Res. 2023 Dec 1: 114781. doi: 10.1016/j.bbr.2023.114781.

- Brain Dynamics doctoral candidate **Anna Seelbach** and research groups **Fledrich / Stassart / Schwab**

Adipo-glial signaling mediates metabolic adaptation in peripheral nerve regeneration.

Sundaram VK, Schütza V, Schröter NH, Backhaus A, Bilsing A, Joneck L, Seelbach A, Mutschler C, Gomez-Sanchez JA, Schäffner E, Sánchez EE, Akkermann D, Paul C, Schwagarus N, Müller S, Odle A, Childs G, Ewers D, Kungl T, Sitte M, Salinas G, Sereda MW, Nave KA, Schwab MH, Ost M, Arthur-Farraj P, Stassart RM, Fledrich R. Cell Metab. 2023 Dec 5; 35(12): 2136-2152.e9. doi: 10.1016/j.cmet.2023.10.017.

- Brain Dynamics postdoc **Thomas Grochow** and research group **Fietz**

Reduced neural progenitor cell count and cortical neurogenesis in guinea pigs congenitally infected with *Toxoplasma gondii*.

Grochow T, Beck B, Rentería-Solís Z, Schares G, Maksimov P, Strube C, Raqué L, Kacza J, Dauschies A, Fietz SA. Commun Biol. 2023 Nov 27; 6(1): 1209. doi: 10.1038/s42003-023-05576-6.

- Research groups **Friederici / Hartwigsen**

Causal evidence for a coordinated temporal interplay within the language network.

Schroën JAM, Gunter TC, Numssen O, Kroczeck LOH, Hartwigsen G, Friederici AD. Proc Natl Acad Sci U S A. 2023 Nov 21; 120(47): e2306279120. doi: 10.1073/pnas.2306279120.

- Research group **Schönwiesner**

Auditory Spatial Discrimination and Sound Localization in Single-Sided Deaf Participants Provided with a Cochlear Implant.

Ludwig AA, Meuret S, Battmer RD, Fuchs M, Ernst A, Schönwiesner M.  
Audiol Neurootol. 2023 Dec 1: 1-14. doi: 10.1159/000534686.

➤ Research group **Valk**

Phylogenetic comparative analysis of the cerebello-cerebral system in 34 species highlights primate-general expansion of cerebellar crura I-II.

Magielse N, Toro R, Steigauf V, Abbaspour M, Eickhoff SB, Heuer K, Valk SL.  
Commun Biol. 2023 Nov 22; 6(1):1188. doi: 10.1038/s42003-023-05553-z.

Connectome-wide structure-function coupling models implicate polysynaptic alterations in autism.

Park BY, Benkarim O, Weber CF, Kebets V, Fett S, Yoo S, Martino AD, Milham MP, Misic B, Valk SL, Hong SJ, Bernhardt BC.  
Neuroimage. 2023 Dec 2; 285: 120481. doi: 10.1016/j.neuroimage.2023.120481.