

Brain Dynamics Graduate School



Newsletter – October '22

*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

- **MPI CBS Mind Meeting**

03.11. 15:30 online & Lecture Hall of the MPI CBS

Prof. Daniela Schiller, Icahn School of Medicine at Mount Sinai, USA

“Navigating social space”.

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

- **Brain Dynamics Seminar Series**

04.11. 12:00 online

Prof. Dr. Martin Bogdan, Department of Neuromorphic Information Processing, Faculty of Mathematics and Computer Science, University Leipzig

"From artificial neural networks and machine learning to neuromorphic information processing: The next generation of AI?"

18.11. 12:00 online

Prof. Dr. Thomas Arendt, Paul Flechsig Institute of Brain Research, Medical Faculty, University Leipzig

"tba"

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

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

09.11. 17:00 online

PD Dr. Stoyan Popkirov, Klinik für Neurologie, Universitätsklinikum Knappschaftskrankenhaus Bochum

„Funktionelle neurologische Störungen“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5482.aspx

23.11. 17:00 University Hospital, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

PD Dr. Kathrin Brockmann, Center of Neurology, Department of Neurodegeneration, University Hospital Tübingen

„Genetics in PD: Pathway-specific treatment options“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5483.aspx

News

- **Inaugural Brain Dynamics Scientific Day held on October 7th**

The first Brain Dynamics Scientific Day included a series of talks by doctoral students, postdocs and PIs, poster presentations, and two keynote lectures by Prof. Dr. Marlene Bartos from University Freiburg, and Prof. Dr. Gilles Laurent, from the Max Planck Institute for Brain Research in Frankfurt am Main.

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/leipzig-neuroscience-community-discussed-projects-and-future-goals-at-the-first-brain-dynamics-scientific-day-2022-10-07>

- **Leipzig neuroscientists taking part in organization of the international neuroscience symposium in Mainz**

Dr. Kristina Lippmann and Prof. Dr. Jürgen Jost are in the organizing committee of the symposium “Minds in Mainz: Brain Dynamics and Information Processing” taking place on November 9-10th. Registration deadline is November 1st. The participation at the symposium is free of charge.

<https://www.adwmainz.de/kalender/eintrag/minds-in-mainz-brain-dynamics-and-information-processing.html>

- **New workshop programme for doctoral researchers and postdocs**

Research Academy Leipzig started the new Programme - Skills Development 2022/23 with various workshops offered in English or German.

<https://www.ral.uni-leipzig.de/en/research-academy-leipzig/workshop-portal>

New members

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

- **Apel Katharina**

Research Group Dr. Christian Simon, Carl Ludwig Institute of Physiology, Medical Faculty

Research project: " Motor neuron-driven spinal motor circuit pathology in spinal muscular atrophy with respiratory distress"

<https://physiologie.medizin.uni-leipzig.de/mobile.php?en,id173>

- **Riedl Juliane**

Research Group Prof. Dr. Cornelia Exner, Wilhelm Wundt Institute of Psychology, Faculty of Life Sciences

Research project: " Complaint validation - Improving the identification of simulation and aggravation tendencies in neuropsychological symptoms"

<https://www.lw.uni-leipzig.de/en/profile/mitarbeiter/juliane-riedl>

Latest publications

- Research group **Bechmann**

Scalable tissue labeling and clearing of intact human organs.

Mai H, Rong Z, Zhao S, Cai R, Steinke H, Bechmann I, Ertürk A.

Nat Protoc. 2022 Oct; 17(10): 2188-2215. doi: 10.1038/s41596-022-00712-8.

- Research group **Claßen**

Does diabetes mellitus affect the safety profile of valproic acid for the treatment of status epilepticus? A retrospective cohort study.

Müller A, von Hofen-Hohloch J, Awissus C, Przybilla J, Mrestani A, Classen J.

Neurol Res Pract. 2022 Oct 24; 4(1): 52. doi: 10.1186/s42466-022-00212-w.

- Research group **Hirrlinger**

Astrocytes in memory formation and maintenance.

Bohmbach K, Henneberger C, Hirrlinger J.

Essays Biochem. 2022 Sep 23; EBC20220091. doi: 10.1042/EBC20220091.

➤ Research groups **Hirrlinger / Eilers**

Gray and white matter astrocytes differ in basal metabolism but respond similarly to neuronal activity.

Köhler S, Winkler U, Junge T, Lippmann K, Eilers J, Hirrlinger J.

Glia. 2022 Sep 5. doi: 10.1002/glia.24268.

➤ Research group **Richter**

Sensitive and simultaneous quantification of 16 neurotransmitters and metabolites in murine microdialysate by fast liquid chromatography-tandem mass spectrometry.

Becker S, Schulz A, Kreyer S, Dreßler J, Richter A, Helmschrodt C.

Talanta. 2022 Sep 24; 253: 123965. doi: 10.1016/j.talanta.2022.123965.

➤ Research group **Roßner**

Alpha synuclein processing by MMP-3 - implications for synucleinopathies.

Bluhm A, Schrempel S, Mocerri S, Stieler J, Feja M, Schilling S, Schulze A, von Hörsten S, Hartlage-Rübsamen M, Richter F, Roßner S.

Behav Brain Res. 2022 Sep 26; 434:114020. doi: 10.1016/j.bbr.2022.114020.

➤ Research group **Schröger**

Intention-based predictive information modulates auditory deviance processing.

Widmann A, Schröger E.

Front Neurosci. 2022 Sep 28; 16:995119. doi: 10.3389/fnins.2022.995119;

Within- and between-subject consistency of perceptual segmentation in periodic noise: A combined behavioral tapping and EEG study.

Ringer H, Schröger E, Grimm S.

Psychophysiology. 2022 Sep 15; e14174. doi: 10.1111/psyp.14174.

➤ Research group **Simon**

SMN controls neuromuscular junction integrity through U7 snRNP.

Tisdale S, Van Alstyne M, Simon CM, Mentis GZ, Pellizzoni L..

Cell Rep. 2022 Sep 20; 40(12): 111393. doi: 10.1016/j.celrep.2022.111393.