

Brain Dynamics Graduate School



Newsletter – April '22

*Let us know if you have an announcement, upcoming event, new publication or job posting!
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<https://lists.uni-leipzig.de/mailman/listinfo/neuroscience>

Events

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

22.04. 12:00 via Zoom

PD Dr. Philipp Gunz, Department of Human Evolution, Max Planck Institute for Evolutionary Anthropology, Leipzig

"What Neanderthals have to say about your brain".

06.05. 12:00 via Zoom

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

“to be announced”.

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

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

27.04. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Dr. Beatriz Blanco-Redondo, Rudolf Schönheimer Institute of Biochemistry, University Leipzig

„Amyotrophic lateral sclerosis: from bench to clinic“.

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5285.aspx

11.05. 17:00 University Hospital Leipzig, House 4: Meeting room "Justus von Liebig", Liebigstraße 20, 04103 Leipzig

Prof. Dr. Agnes Floel, Neurology Clinic, Greifswald University Hospital

„Schlechter Schlaf als Risikofaktor für Demenz: Was wissen wir, was können wir tun?“

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5286.aspx

- **MPI CBS CoCoNUT Meeting**

29.04. 11:30 via Zoom

Dr. Johannes Jäger, Complexity Science Hub (CSH) Vienna

“How Organisms Come to Know the World: Fundamental Limits on Artificial General Intelligence”

<https://www.cbs.mpg.de/events/30824/338738>

- **RAL Workshops**

02.05. 09:15 – 16:15 Villa Tillmanns, Wächterstraße 30, 04107 Leipzig

„Designing effective academic posters“

03.05. 09:15 – 16:15 online

“How to write a competitive DFG proposal”

04./05.05. Villa Tillmanns, Wächterstraße 30, 04107 Leipzig

„Führungskräftetraining: Basics“ (Only in German)

09.05. 10:00 – 13:00 online

„Möglichkeiten der Drittmittelförderung“ (Only in German)

12./13.05. Villa Tillmanns, Wächterstraße 30, 04107 Leipzig

„Thesis Defense Training“

13.05. 09:00 – 16:00 online

“Writing Sprints”

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

- **25. Leipzig Stroke Day (Leipziger Schlaganfalltag)**

07.05. 10:00 - 14:00 hybrid: online and Mediencampus Villa Ida, Poetenweg 28, 04155 Leipzig

https://www.uniklinikum-leipzig.de/veranstaltungen/Seiten/Veranstaltung_5134.aspx

- **Conference “Mathematical Concepts in the Sciences and Humanities”**

16 – 25.05. Max Planck Institute for Mathematics in the Sciences, E1 05 (Leibniz-Saal), Inselstr. 22, 04103 Leipzig

<https://www.mis.mpg.de/calendar/conferences/2022/jj65.html>

News

- **TAC impressions**

Doctoral candidates talk about Thesis Advisory Committee (TAC): finding the suitable advisors, the content of the meetings and the benefits of having a TAC (videos in English and German):

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/doctoral-candidates-talk-about-their-experiences-with-the-thesis-advisory-committee-tac-2022-04-05>

- **Faces of the University Leipzig: Prof. Dr. Ruth Stassart**

Prof. Ruth Stassart, from the Paul Flechsig Institute of Neuropathology, University Hospital Leipzig talks about her carrier, research, teaching and few other topics for the Leipzig university magazine (in German):

<https://magazin.uni-leipzig.de/das-leipziger-universitaetsmagazin/artikel/faszinierendes-zusammenspiel-der-zelltypen-unseres-nervensystems>

- **IMPRS CoNI**

In close cooperation with Leipzig University, the Max Planck Institute for Human Cognitive and Brain Sciences (MPI CBS) in Leipzig is launching the International Max Planck Research School on Cognitive NeuroImaging (IMPRS CoNI) next year.

<https://www.cbs.mpg.de/1921292/20220211-01?c=7533>

New members

We welcome three new doctoral students and their supervisors to the Brain Dynamics family:

➤ **Dorukhan Açil**

Research Groups Prof. Dr. Kai von Klitzing & Dr. Lars Otto White, Department of Child and Adolescent Psychiatry, Psychotherapy and Psychosomatics, University Hospital Leipzig

Research project: "When do youth generalize representations of parents to peers?"

https://www.uniklinikum-leipzig.de/einrichtungen/kinderpsychiatrie/en/Pages/dorukhan_cv_english.aspx

➤ **Alexandra Bluhm**

Research Group Prof. Dr. Steffen Roßner, Paul Flechsig Institute for Brain Research, Medical Faculty

Research project: "Post-translational protein modification of alpha-synuclein"

http://pfi.medizin.uni-leipzig.de/pfi.site,postext,Doktoranden,a_id,3241.html

➤ **Marius Lamberty**

Research Group Prof. Dr. Robert Kittel, Department of Animal Physiology, Institute of Biology, Faculty of Life Sciences

Research project: "Functional nanoscopy of the synaptic active zone"

<https://www.lw.uni-leipzig.de/en/institut-fuer-biologie/abteilungen/animal-physiology/team>

Open positions

• **PhD position, research group Morawski, Paul Flechsig Institute**

The laboratory of Prof. Dr. Dr. Markus Morawski at the Paul Flechsig Institute of Brain Research and Neuropathology, University Leipzig is offering a PhD position in an interdisciplinary DFG Priority Programme (SPP2041) in multi-modal imaging. (f/m/d)

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/open-phd-position-in-the-research-group-morawski>

• **German-speaking postdoc position, research group Hirrlinger, Carl Ludwig Institute**

The research group of Prof. Dr. Johannes Hirrlinger at the Carl Ludwig Institute for Physiology, University Leipzig is offering a postdoc position at the earliest opportunity. (f/m/d)

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/wissenschaftlicher-mitarbeiter-in-der-ag-hirrlinger-2022-04-19>

- **PhD position, research group Sonntag, Paul Flechsig Institute**

The laboratory of Dr. Mandy Sonntag at the Paul Flechsig Institute of Brain Research and Neuropathology, University Leipzig is offering a PhD position in cochlear structure and function. (f/m/d)

<https://www.uni-leipzig.de/en/brain-dynamics/graduate-school-brain-dynamics/news-events/newsdetail/artikel/open-phd-position-in-the-research-group-sonntag-2022-04-14>

Latest publications

- Research group **Bechmann**

Droplet Degeneration of Hippocampal and Cortical Neurons Signifies the Beginning of Neuritic Plaque Formation.

Streit WJ, Rotter J, Winter K, Müller W, Khoshbouei H, Bechmann I.
J Alzheimers Dis. 2022;85(4):1701-1720. doi: 10.3233/JAD-215334.

- Research groups **Fledrich / Stassart**

Early targeting of endoneurial macrophages alleviates the neuropathy and affects abnormal Schwann cell differentiation in a mouse model of Charcot-Marie-Tooth 1A.

Klein D, Groh J, Yuan X, Berve K, Stassart R, Fledrich R, Martini R.
Glia. 2022 Jun;70(6):1100-1116. doi: 10.1002/glia.24158. Epub 2022 Feb 21.

- Research group **Grosse Wiesmann**

Cognitive dissonance from 2 years of age: 'Toddlers', but not infants', blind choices induce preferences.

Grosse Wiesmann C, Kamps D, Poulsen E, Schüler C, Lukowski Duplessy H, Southgate V.
Cognition. 2022 Jun;223:105039. doi: 10.1016/j.cognition.2022.105039. Epub 2022 Feb 3.

- Research group **Hallermann**

An action potential initiation mechanism in distal axons for the control of dopamine release.

Liu C, Cai X, Ritzau-Jost A, Kramer PF, Li Y, Khaliq ZM, Hallermann S, Kaeser PS.
Science. 2022 Mar 25;375(6587):1378-1385. doi: 10.1126/science.abn0532. Epub 2022 Mar 24.

- Research group **Hirrlinger**

A perspective on astrocyte regulation of neural circuit function and animal behavior.

Hirrlinger J, Nimmerjahn A.
Glia. 2022 Mar 17. doi: 10.1002/glia.24168.

➤ Research groups **Langenhan / Kittel / Schmidt**

The human cognition-enhancing CORD7 mutation increases active zone number and synaptic release.

Paul MM, Dannhäuser S, Morris L, Mrestani A, Hübsch M, Gehring J, Hatzopoulos GN, Pauli M, Auger GM, Bornschein G, Scholz N, Ljaschenko D, Müller M, Sauer M, Schmidt H, Kittel RJ, DiAntonio A, Vakonakis I, Heckmann M, Langenhan T.
Brain. 2022 Jan 12;awac011. doi: 10.1093/brain/awac011.

➤ Research group **Richter**

Systematic Review of the Pharmacological Evidence for the Selection of Antimicrobials in Bacterial Infections of the Central Nervous System in Dogs and Cats.

Hertzsch R, Richter A.
Front Vet Sci. 2022 Jan 18;8:769588. doi: 10.3389/fvets.2021.769588.

➤ Research group **Schönwiesner**

Neural Substrates and Models of Omission Responses and Predictive Processes.

Braga A, Schönwiesner M. Front Neural Circuits. 2022 Feb 1;16:799581. doi: 10.3389/fncir.2022.799581.

Common principles in the lateralization of auditory cortex structure and function for vocal communication in primates and rodents.

Ruthig P, Schönwiesner M.
Eur J Neurosci. 2022 Feb;55(3):827-845. doi: 10.1111/ejn.15590. Epub 2022 Jan 23.

➤ Research groups **Simon / Hallermann**

Laser microscopy acquisition and analysis of premotor synapses in the murine spinal cord.

Buettner JM, Kirmann T, Mentis GZ, Hallermann S, Simon CM.
STAR Protoc. 2022 Mar 11;3(1):101236. doi: 10.1016/j.xpro.2022.101236. eCollection 2022 Mar 18.

➤ Research group **White**

Emotional maltreatment and neglect impact neural activation upon exclusion in early and mid-adolescence: An event-related fMRI study.

Schulz CC, von Klitzing K, Deserno L, Sheridan MA, Crowley MJ, Schoett MJS, Hoffmann F, Villringer A, Vrtička P, White LO.
Dev Psychopathol. 2022 Feb 2:1-13. doi: 10.1017/S0954579421001681.

