

## PhD student position

### Our offer

The discovery of autoantibodies against synaptic proteins in the central nervous system in patients with severe neuropsychiatric disorders was a breakthrough in neurology. This novel entity of CNS disorders has been termed “autoimmune encephalitis”. We have received prestigious funding from the German Research Foundation (DFG) for the collaborative Research Unit “Synaptic pathology in autoimmune encephalitis (SYNABS)”. The aim of SYNABS is to elucidate the pathophysiology of autoimmune encephalitis.

We are seeking a PhD student working on one project of SYNABS involving state-of-the-art electrophysiology and super-resolution imaging. In close collaboration with clinician scientists we will investigate pathogenic autoantibodies from patients in mouse models. The position is available immediately for 36 months with a salary according to TV-L E13 (65%) and the option of being prolonged.

We offer a stimulating scientific environment in a dynamic and young team. Our lab combines unique electrophysiological, imaging, and computational techniques (for references see Ritzau-Jost et al. Neuron 2014, Delvendahl et al. PNAS 2015, Delvendahl et al. Neuron 2016, Byczkowicz et al. eLife 2019, Straub et al. eLife 2020). Our lab currently also receives prestigious funding from the European Research Council (ERC consolidator grant).

### Your profile

- Excellent university degree (M.Sc. or equivalent degree) in a biology-related field with a neuroscientific background
- Experience in electrophysiology and/or imaging techniques
- Preferably experience with mouse studies
- Self-motivated, creative and detail-oriented
- Fluency in written and oral English (German not required)

### For application

Applicants should submit their CV, a letter outlining interest and motivations and names and contact information of ideally three references as a single pdf file via email to:

Stefan Hallermann, Prof.  
Carl-Ludwig-Institute for Physiology  
Leipzig University, Germany  
[stefan\\_jens.hallermann@uni-leipzig.de](mailto:stefan_jens.hallermann@uni-leipzig.de)

Candidates will be considered as they apply.