

# PhD Student in Neuroscience (m/f/d)

Hertie Institute for Clinical Brain Research (HIH)

In the Department of Cellular Neurology at the Hertie Institute for Clinical Brain Research ([HIH](#)) in Tübingen, we are looking for an enthusiastic

## PhD Student in Neuroscience

The HIH is one of the largest and most advanced research centers for neurological diseases in Germany and partner of the German Center for Neurodegenerative Diseases ([DZNE](#)). In the [Molecular Biomarker Unit](#), we are interested in biofluid markers of neurodegenerative diseases, aging, and longevity. We are analyzing cerebrospinal fluid (CSF) and blood samples from patient cohorts and mouse models as well as brain slice cultures. One focus of our translational research is the development of novel biomarker assays using state of the art technologies.

## POSITION

For a collaborative research project with the Paris Brain Institute ([ICM](#)) we are looking for a highly motivated PhD student. Our goal is to establish the relationship between cellular alterations in the brain and changes of CSF proteins in Alzheimer's and Parkinson's disease ([Eninger et al. PNAS 2022](#)). To this end, we use multiplexed imaging technologies ([PhenoCycler](#)) for the assessment of spatio-temporal changes of glial proteins in brain and immunoaffinity- and mass spectrometry-based multiplex assays to measure glial protein changes in CSF and blood of mouse models and human cohorts. The overall goal is to establish a panel of fluid biomarkers to determine neuroinflammatory disease stages, an analytical tool that is lacking today but desperately needed for clinical trials targeting brain inflammation.

## PROFILE

- MSc degree ideally in neuroscience, biomedical sciences or a related field
- Quick learner with great analytical skills
- Open for new and innovative analysis methods
- Good command of English language
- Willingness to spend up to 6 months at the ICM in Paris
- Prior experience in the use of Python programming is a plus but not a requirement
- Experience in handling mice is desirable

## WE OFFER

- Stimulating research environment at the interface of basic and clinical research
- Access to state-of-the-art technologies (e.g., [multiplexed imaging](#), [single molecule arrays](#), mass spectrometry)
- International exchange and networking opportunities
- Support by a thesis advisory board with regular meetings
- Doctoral program at the [Graduate Training Centre of Neuroscience](#) at the University of Tübingen including training in scientific, practical and soft skills
- Salary at 65% of a full position on TV-L 13, based on a 3-year-contract

Please send your application including letter of motivation, (max. one page), curriculum vitae, last school certificate, and, if available, abstract of your master thesis, and two references to [mathias.jucker@uni-tuebingen.de](mailto:mathias.jucker@uni-tuebingen.de) or [stephan.kaeser@uni-tuebingen.de](mailto:stephan.kaeser@uni-tuebingen.de).

**The position will remain open until filled.**