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

3-year position

In the Department of Cellular Neurology at the Hertie Institute for Clinical Brain Research in Tübingen (HIH) we are looking for an enthusiastic PhD student. 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 analyze 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 protein changes in brain and changes of CSF proteins in Alzheimer’s and Parkinson’s disease (e.g., Eninger T., et al, PNAS 2022). We exploit innovative multiplexed imaging technologies (PhenoCycler) to assess spatio-temporal protein changes of glial cells and develop immuno-affinity- and mass spectrometry-based multiplex assays to evaluate CSF and blood proteins that reflect neuroinflammatory brain states in both 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
- Highly motivated team player
- 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

If you are interested, please contact stephan.kaeser@uni-tuebingen.de or mathias.jucker@uni-tuebingen.de for informal inquiries.