



The Max Planck Institute for Multidisciplinary Sciences is a leading international research institute of exceptional scientific breadth. With more than 40 research groups and some 1,000 employees from over 50 nations, it is the largest institute of the Max Planck Society.

The research group *Neuroproteomics* (Prof. Dr. Olaf Jahn) within the department of *Molecular Neurobiology* (Prof. Dr. Nils Brose) is inviting applications for a

Postdoc Position (f/m/d)
- Mass spectrometry-based proteomics -

About us

Located at the biomedically oriented City Campus of the Max Planck Institute for Multidisciplinary Sciences, we focus on the molecular mechanisms underlying nerve cell development, synapse formation and function, and neuron-glia communication. A particular focus is on the dysfunction of these biological processes in neuropsychiatric diseases. Our methods portfolio for the phenotyping of mouse models ranges from behavior to biochemistry, including mass spectrometric approaches for quantitative protein profiling in various brain fractions. We are well embedded into the local research community, i.e. into the *Göttingen Campus* (goettingen-campus.de) where neuroscience is a long-standing stronghold, and into dedicated networks such as the *Göttingen Proteomics Forum* (gpf.gwdg.de). The historic city of Göttingen, located in the center of Germany, offers great outdoors and cultural opportunities, a vibrant student scene, and an impressive scientific heritage.

Your profile

The successful candidate has strong skills and a keen interest in protein biochemistry/proteomics and/or bioinformatics, ideally in combination with an affinity to neuroscience research. You hold a PhD or an equivalent degree in any of these or a related field. Prior hands-on experience with modern mass spectrometry systems is required, preferably with quadrupole-Orbitrap instruments.

What you will be doing

You will pursue projects on the post-translational modification of synaptic proteins by ubiquitin-like proteins (UBLs), including the mapping of modification sites within conjugated substrates. To this end, novel genetically modified mouse models for the analysis of UBL conjugation in neurons are available in the Project Group of *Dr. Marilyn Tirard* (mpinat.mpg.de/tirard) within the Department of Molecular Neurobiology. You will also enter innovative fields, like charting the brain peptidome and microproteome to study their roles in synaptic function and neuron-glia communication. Given the proteomic challenges of these endeavors, you are expected to engage into the development of the required mass spectrometric methods on a Thermo UltiMate 3000 / Orbitrap Exploris 480 system.

What we offer

- direct access to state-of-the-art LC-MS systems (Q-Orbitrap, Q-IMS-TOF) on-site at City Campus
- a team of expert colleagues to support you scientifically and technically
- ample training opportunities
- a family friendly, green campus with on-site kindergarten



Position details

The position is initially limited to two years, with a possibility of extension. Payment and benefits are based on the German Public Service Payscale (TVöD Bund) guidelines. The starting date is flexible.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

The Max Planck Society strives for gender and diversity equality. We welcome applications from all backgrounds.

Application

Applications will be reviewed on a rolling basis until the position is filled.

Please submit your application including cover letter (explaining background and motivation), CV, transcripts, and publication record, preferably via E-Mail as a single PDF file to:

ausschreibung04-23@mpinat.mpg.de

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Information pursuant to Article 13 DS-GVO on the collection and processing of personal data during the application process can be found on our website below the respective job advertisement.