



Universitätsklinikum  
Hamburg-Eppendorf

The Institute for Neuroimmunology and Multiple Sclerosis (INIMS; Director: Professor Manuel Friese) at the Centre for Molecular Neurobiology Hamburg (ZMNH) invites applications for a

## Postdoctoral Position in Neuroimmunology

The INIMS ([www.inims.de](http://www.inims.de)) is focused on understanding how immune system dysregulation and neurobiological responses promote central nervous system injury in multiple sclerosis and how the immune and nervous system directly interact. We combine immunological, neurobiological, genetic, and systems biology approaches in the mouse model together with translational approaches by studying human material (see Schattling B, et al., *Nature Medicine*. 2012;18:1805-1811; Piédavent-Salomon M, et al. *Brain*. 2015;138:3263-74; Dendrou CA, et al. *Nat Rev Immunol*. 2015;15:545-58). The offered position is part of a project funded by the Deanery in preparation of the German Excellence Initiative and aims at the characterisation of synaptic molecules in dendritic cell function and their interaction with peripheral neurons. The ZMNH offers excellent research infrastructure and working conditions in a dynamic and international research environment located in beautiful, cosmopolitan Hamburg, Germany. Close proximity to the main campus of the University Medical Centre Hamburg-Eppendorf provides excellent opportunities for patient-oriented basic research. Working language of the lab and institute is English. An initial contract will be offered for 2 years, with the possibility for extension and salary corresponds to the German wage group of a scientist according to TV-KAH E13.

**Job description:** You will be expected to independently organise and conduct basic research in molecular and cellular immunology. Built upon our previous research (Ufer F, et al. *Science Immunology* 2016, in press) your primary experimental responsibility will be to analyse the function of dendritic cells from mouse and human material, their interaction with the nervous system, the role of synaptic proteins in this context and to address molecular and cellular mechanisms of immune responses in transgenic animal models. For this purpose you will use functional genomic approaches, immunological methods (e.g. flow cytometry, tissue staining of mouse brain and spinal cord, functional assays of migration and antigen presentation) and state-of-the-art transgenic methods in mice. You will be expected to cooperate closely with senior immunology and neurobiology researchers and bioinformaticians as well as with technicians working on related projects in the Friese group. Through regular progress reports, you will integrate your results with that of other research activities at the institute and the broader scientific literature. You will also prepare data for publication and present your results at both internal and international scientific meetings.

**Your profile:** We are looking for a highly motivated and well-organised postdoctoral candidate who intends to pursue research science as a career. Candidates should have a master degree/diploma in biological sciences or medicine and respective PhD/MD degrees. Laboratory experience in immunology, neurobiology, genetics, cellular and/or molecular biology techniques is expected. Expertise in immunological techniques and/or in transgenic and knockout mouse models of disease is strongly preferred. Prior experience in dendritic cell physiology and in generating and analysing genome-wide datasets would be advantageous. Ability to interact effectively with other researchers, particularly bioinformaticians, in a team environment is essential. Candidates with demonstrated ability in this regard will be preferred.

Applicants with significant physical disabilities will be given preference over others being equally qualified. The University Medical Centre Hamburg-Eppendorf wishes to enhance the proportion of women in those areas where they are underrepresented. Women are therefore particularly encouraged to apply.

The position is available from 01. January 2017, but later starting dates are also possible. Please send your application to [bewerbung@uke.de](mailto:bewerbung@uke.de) or to Universitätsklinikum Hamburg-Eppendorf, GB Personal, Recht & Organisation, Recruitment, Martinistr. 52, 20246 Hamburg **until November, 1<sup>st</sup>, 2016** with the subject line "**Kzf.: 2016-433**" and include a single attachment (PDF file, max. 2 MB) containing:

- 1) 1–2 page cover letter summarising scientific accomplishments, research and career goals, reasons for the interest in our project, and expected date of availability
- 2) CV with a complete list of publications and certificates (starting from Abitur/A-levels/high school) and doctoral thesis
- 3) Contact information for two to three references