

The research group of Prof. Dr. Christine Stadelmann-Nessler/Dr. Stefan Nessler at the Institute of Neuropathology, University Medical Center Göttingen, Germany, is offering a position for a

PhD student (f/m/d)

- salary according to TV-L (65%) -

The successful candidate will be part of the DFG collaborative research center TRR 274 „**Checkpoints of Central Nervous System Recovery**“. We aim to provide a lesion-stage dependent characterization across the human white matter disease spectrum, including multiple sclerosis, using integrated single cell and spatial transcriptome analyses, with an emphasis on CD8⁺ T cells. The contribution of CD8⁺ T cells to lesion development, recovery and progression will be dissected in mouse models using cell type-specific knockout mice and antibody-mediated cell depletion strategies. Humanized mouse models generated with gene-edited iPSC-derived cells will further help to define cell-autonomous and non-autonomous contributors to the pathogenesis of myelin diseases.

In the context of this research project, the successful candidate will work with experimental (mouse) models and human tissue. Techniques applied will include stereotactic injections of mice, immunohistochemistry, in situ hybridization, spatial transcriptomics, AI-supported image analysis, flow cytometry, cell sorting, and qPCR. Furthermore, the candidate will cultivate, pre-differentiate and gene-edit iPSCs.

We are looking for a highly motivated candidate with a master's degree in biology, immunology, neuroscience or a related discipline. Experience in rodent models of human diseases, cellular and molecular biology and cell culture is desirable. Bioinformatics skills are of advantage. We are specifically looking for an individual with a strong interest in translational neurobiology and who enjoys working in a highly committed team. The candidate should be willing to travel, if necessary.

We are offering a TV-L 13 (65%) position for one year, with the option of extension for an additional two years, available as soon as possible, in a well-equipped laboratory with profound expertise in white matter diseases and relevant experimental models. Our group has numerous national and international collaborations and offers an intellectually stimulating environment.

Applications should be addressed to Dr. Stefan Nessler (stefan.nessler@med.uni-goettingen.de) or Prof. Dr. Christine Stadelmann-Nessler (cstadelmann@med.uni-goettingen.de). The University of Göttingen is an equal opportunity employer. Applicants with disabilities and equal qualifications will be given preferential treatment.