PhD or PostDoc Position in Biomedical Sciences

The Clinic for Hand, Plastic, Reconstructive and Burn surgery at the BG Trauma Center Tübingen, together with the University Clinic Tübingen, Eberhard Karls University, is currently offering a position either as:

PhD candidate or PostDoc

The PhD.c (65%) and PostDoc (100%) positions are initially scheduled for 1 year with prospective extension, in accordance with the German public service collective agreement pay scale (TV) E13 or higher depending on experience and according to DFG regulations.

We offer the opportunity to work at a high scientific level in an experienced research team at the intersection of research and clinics. Our extensive interdisciplinary infrastructure enables local as well as international co-operations across life sciences, biology and medicine. We encourage initiation of new research projects, publishing in leading scientific journals and presenting our research at national and international conferences.

Projects: We offer a variety of potential prospective projects within the interdisciplinary area of cell cultures, molecular biology, and clinical medicine, especially regarding peripheral nerve injuries and neuropathic pain. Therefore, we are looking into isolation and characterization of Dorsal Root Ganglia (DRG) and Schwann cells after peripheral nerve injury as well as in diabetic polyneuropathies and gene expression analysis in in vivo models for neuropathic pain. Another aspect is the development of cell-based targeted therapies for peripheral nerve injuries and application in in vivo models to ultimately enable a transfer from research into clinical application.

Qualifications: We are looking for highly motivated team players, who are passionate about developing new ideas and bringing scientific research to the clinic. Speaking German is an asset, but not a requirement for this position. To apply, a master's or PhD degree in the field of biology, cell biology, biotechnology, molecular medicine, biochemistry or a similar discipline is required.

Solid knowledge in <u>cell culture and molecular biological techniques</u> including:

- Primary cell culture of neuronal and glial cells (human and murine origin)
- Cell-based assays (Gene expression analysis, Western blotting, Proteomics, etc.)
- Immunohistochemical analysis of cells
- Imaging techniques (confocal microscopy, etc.)
- Histomorphometric characterization of cells
- Interested in continued learning "what you don't know, you can always learn"

A completed Laboratory Animal Science course and involvement in animal experiments preferable but not mandatory. Involvement in animal experiments focusing on peripheral neuropathies are possible including:

- Microsurgical nerve repair
- Evaluation of functional recovery (Gait analysis, Von Frey Testing, Electrophysiology)
- In vivo application of drugs

Application: Please include the following documents as PDF in your application and send them to cprahm@bgu-tuebingen.de until November 31st 2021. After receiving your application, we might want to schedule an interview.

- o Motivational letter outlining how you meet the requirements of the position, previous projects and research experience and what motivates you for this project
- o Curriculum Vitae including a list of publications, funding, awards, stipends, further educational courses, etc.
- o Up to 5 published papers, articles, letters, or posters as PDF
- o Scan of University certificates
- o Names and Email addresses of at least two professional references (i.e. supervisors, research advisors, mentors)

Please contact head of research:	**And Director of the laboratory:**
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