



The University Hospital Würzburg and Clinical Research Group ResolvePAIN

**PostDoc position (open to m/f/d applicants)**

at the Dept of Neurology. The position is limited to maximum of 4 years. The salary is based on TV-L.

**We are:**

The clinical research group KFO5001 ResolvePAIN of the German Research Foundation (DFG) is conducted by clinical and basic scientists from the University Hospital Würzburg. Principal investigators are based in neurology, anesthesia, psychiatry, clinical neurobiology and physiology (Charité Berlin).

Resolution of and recovery from neuropathic pain are active processes which depend on mechanisms such as resolution of inflammation and restoration of neuronal pathways. If this self-healing process is disturbed, chronic pain may ensue, e.g. chronic postoperative pain. In *ResolvePAIN*, we aim to investigate recovery patterns and mechanisms of pain resolution in the peripheral somatosensory system. We will utilize a combined translational approach involving clinical, preclinical, and basic sciences as well as pilot studies on CNS control over the peripheral processes (<https://www.ukw.de/behandlungszentren/zentrum-fuer-interdisziplinaere-schmerzmedizin/forschung/klinische-forschergruppe-kfo/>).

**Do you fit to us?**

You are an open-minded, enthusiastic, committed and research-loving scientist (PhD in Neurosciences, Biomedicine, Biology, Biochemistry etc.) having completed your studies above average. You thrive in international teams and translational research. We expect you to work independently with a lively commitment within the KFO5001, resilience and flexibility. This project aims to refine our strategies to produce patient-derived sensory neurons from iPSC. Our current protocol is based on already published work (Chambers et al., 2012; DOI: 10.1038/nbt.2249; Eberhardt et al., 2015; DOI: 10.1016/j.stemcr.2015.07.010). Your task is to enhance the neuronal purity and reliability of our differentiation system and/or find other suitable ways to produce patient-derived neurons. Furthermore, you will be responsible to establish new methods to analyze these neurons in the setting of the KFO5001. Experience with induced pluripotent stem cells (iPSC) and directed neuronal differentiation therefore is highly beneficial. Experience with molecular biology techniques (e.g. qRT-PCR), immunofluorescence (ICC, IHC, FACS), advanced imaging techniques (e.g. expansion microscopy, 3D-SIM), and electrophysiology (Patch-clamp, MEA) is favorable.

**We offer:**

You will find a highly motivated team. Open communication culture is what characterizes us. The UKW is certified as a family-friendly employer. The University Hospital of Würzburg aims to increase the proportion of women and therefore specifically encourages qualified women to apply. Disabled people will be given priority if they are equally qualified.

**We look forward to receiving your application!**

We would like to get to know you! Further information can be obtained by Prof. Dr. Nurcan Üçeyler, Neurology (Ucecyler\_N@ukw.de). Please send your application in one pdf to ueceyler\_N@ukw.de.