

The department of Otolaryngology offers a

Postdoctoral position in vestibular synaptic molecular physiology

Available for 3 years, full-time, salary according to TV-L

Head motion is encoded by vestibular hair cells releasing neurotransmitters upon minute deflections of their hair bundles. These cells form anatomically highly-specialized unique synapses with the vestibular neurons. The successful candidate will work on elucidating the structural, functional, and molecular characteristics of different types of vestibular hair cell synapses and investigate how they code vestibular information. Work will employ genetic and optogenetic tools, state-of-the-art electrophysiology (pre- and postsynaptic patch-clamp recordings), optical methods (confocal/STED imaging of fluorescent probes in fixed and live tissue, calcium imaging), systems physiology tests, and immunohistochemistry to study normal and genetically manipulated vestibular tissue. Work will include the use of established methods as well as further development of techniques for investigation of the nanophysiology of vestibular synapses and vestibular function.

We are looking for excellent and highly motivated applicants with a strong background in physics or biology, and proven experience in biophysical techniques. Prior experience in electrophysiology and imaging would be useful. The ability to work in an interdisciplinary and international team of researchers is required. The position is available for 3 years.

Göttingen is world-renowned for its research in neuroscience. It is a stimulating and highly collaborative scientific environment hosting numerous prestigious and internationally renowned neuroscience research institutions. This includes the University and its Medical Center, three life science Max Planck Institutes, the European Neuroscience Institute, and the German Primate Center. The InnerEarLab, which includes several research groups of the Institute for Auditory Neuroscience, the Dept. of Otolaryngology, and from outside the University, is tightly integrated in the Campus, where it runs numerous stimulating collaborations such as within the sensory Collaborative Research Center 889 (www.sfb889.uni-goettingen.de/) and the Multiscale Bioimaging Cluster of Excellence (<https://mbexc.de/>).

Please submit your application preferably in one single PDF-document, including cover letter, CV, list of publications, names of possible referees, and relevant certificates to: tpangrs@gwdg.de until August 31st, 2020. Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.
Travel and application fees cannot be refunded or transferred.

Prof. Dr. Tina Pangrsic

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