



The Institute for Auditory Neuroscience and InnerEarLab of the University Medical Center Göttingen (Germany) invites applications for a

## Postdoctoral position in molecular biology of the auditory system

The successful candidate will work on genetic manipulation of auditory hair cells and neurons using viral and non-viral transduction and mouse mutagenesis. The focus of the work is on the molecular physiology of sound coding, gene therapy approaches, and the use of optogenetics to restore auditory activity in auditory neurons. The work involves cloning, packaging, and testing of constructs/virus in cell culture, organotypic culture, and *in vivo* (transuterine or postnatal gene transfer into the inner ear). Phenotyping is done as a team effort using state of the art electrophysiology (pre- and/or postsynaptic patch-clamp, capacitance measurements) and optical methods (uncaging, confocal, 2-photon and STED imaging, optogenetics, electron microscopy) and provides ample opportunities to learn new methods.

We are looking for excellent and highly motivated applicants with a strong background in molecular biology/genetics. Competence in virus production (AAV) will be useful. The ability to work in an interdisciplinary (combining molecular, structural, physiological, and theoretical approaches) and international team of researchers is required. The position is available for 5 years.

The Göttingen Campus is a leading Neuroscience Center hosting numerous prestigious and internationally renowned research institutions. This includes the University and its Medical Center, three lifescience Max Planck Institutes, the European Neuroscience Institute, and the German Primate Center. The Institute for Auditory Neuroscience & InnerEarLab is tightly integrated in the Campus with research groups hosted also non-University institutions and runs numerous stimulating collaborations on Campus such as within the collaborative sensory research center SFB889 ([www.sfb889.uni-goettingen.de](http://www.sfb889.uni-goettingen.de)), the Bernstein Center for Computational Neuroscience ([www.bccn-goettingen.de](http://www.bccn-goettingen.de)), and the Center for Nanoscale Microscopy and Molecular Physiology of the Brain ([www.cnmpb.de](http://www.cnmpb.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: [ianoff@gwdg.de](mailto:ianoff@gwdg.de) until February 28<sup>th</sup> 2015.

Dr. Tobias Moser, Professor of Auditory Neuroscience

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