



Göttingen
Campus



The *Functional auditory genomics* group of the Auditory Neuroscience and Optogenetics laboratory at the German Primate Center and the Institute for Auditory Neuroscience of the University Medical Center Göttingen (Germany) invites applications for a

PhD-student position in preclinical cochlear gene therapy

The successful candidate will develop tools for AAV-mediated gene-therapy of hereditary hearing loss and analyze behavioural, electrophysiological and molecular outcomes in mice and non-human primates (NHP). The focus of the work will be on further optimization of the available AAV constructs for gene therapy by molecular cloning of the gene expression constructs, production of the experimental vectors as well as their validation of functionality *in vitro* and *in vivo*. The work involves gene therapy application in primates by a multidisciplinary team. Towards this goal the PhD-candidate will participate in assessing hearing restoration by gene therapy in mice and NHP followed by molecular and histological analysis.

We are looking for excellent and highly motivated applicants with a strong background in molecular biology and auditory systems biology. Genome and transcriptome analysis skills and basic bioinformatics knowledge is a plus. 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 3 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, two life science Max Planck Institutes, the European Neuroscience Institute, and the German Primate Center. The *Functional Auditory Genomics* group is tightly integrated in the Auditory Neuroscience and Optogenetics laboratory at the German Primate Center as well as the Institute for Auditory Neuroscience of the University Medical Center Göttingen, where numerous stimulating collaborations on Campus, such as within the collaborative sensory research center SFB 889 (www.sfb889.uni-goettingen.de/) and the Cluster of Excellence Multiscale Bioimaging (www.mbexc.de), are run.

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: kkusch@dpz.eu until March 31st 2022.

Dr. Kathrin Kusch, group leader

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