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

Postdoc position

- starting as soon as possible, full time, initially limited until 31.12.2028, salary according to TV-L-

Your tasks:

- In-depth structural and functional characterization of optimized Channelrhodopsin variants for basic research in neuroscience and future optogenetic therapies
- Recombinant protein purification, Determination of protein stability (Prometheus NT. 48, NanoTemper Technologies), SDS PAGE, Blue Native PAGE
- Cryo-EM (Titan Krios G4, Thermo Fisher Scientific)
- High-throughput spinning disc confocal microscopy (CQ1, Yokogawa)
- Data analysis

Your profile:

- Excellent and highly motivated applicant with a strong background in the structural and functional characterization of membrane transport proteins
- Proficiency in structural biology and preferably knowledge in bioinformatics and/or patch clamp measurements and/or data-driven protein design
- Experience with basic molecular biology techniques (PCR, cloning etc.)
- Preferably knowledge in the characterization of microbial rhodopsins
- Basic skills in data analysis with Python
- Excellent organizational, interpersonal and communication skills
- The ability to work in an interdisciplinary and international team of researchers is required

We offer:

- Exciting work and collaboration in a multi-disciplinary team
- A highly innovative project
- The chance to contribute to work towards the development of future optogenetic therapies, in particular the optical cochlear implant

The Göttingen Campus is 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 Institute for Auditory Neuroscience & InnerEarLab is tightly integrated in the Campus with research groups hosted also at non-university institutions and runs numerous stimulating collaborations on Campus such as within the collaborative research center CRC 1690 (Disease Mechanisms and Functional Restoration of Sensory and Motor Systems) and the newly founded Else Kröner

Fresenius Center for Optogenetic Therapies (EKFZ-OT).
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: Thomas.Mager@med.uni-goettingen.de and ianoff@gwdg.de

Dr. Thomas Mager,
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Advanced Optogenes Group

and

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