Institute for Neuropathology

The laboratory of Prof. Fernandez-Busnadiego at the Institute of Neuropathology, University Medical Center Göttingen, is offering a position for a

Postdoctoral scientist

The initial contract duration will be 1 year with the option of extension, E13 | Entgelt nach TV-L

The goal of the Fernandez-Busnadiego lab is to unravel the structural basis of fundamental cellular mechanisms, as well as their alterations in human disease. To that end, we employ multidisciplinary approaches, pivoting on state-of-the art cryo-electron tomography (see e.g. Bäuerlein et al., Cell 2017; Guo et al., Cell 2018; Collado et al., Dev Cell 2019; Trinkaus et al., Nat Comm 2021; Jentoft et al. Cell 2023).

The lab is integrated in the Cluster of Excellence "Multiscale Bioimaging: from Molecular Machines to Networks of Excitable cells" (MBExC). MBExC is an interdisciplinary, cross-faculty research center of the University of Göttingen and pursues a novel research approach with joint efforts in modern bioimaging, in particular photonics, molecular biosciences, neuroscience and cardiovascular research. The goal of MBExC is to decipher disease relevant nanoscale functional units in neurons, sensory cells and cardiomyocytes with the long-term goal to develop innovative therapeutic strategies for disorders affecting the heart and the brain, or both.

Your tasks

• Generate and characterize novel Drosophila lines.
• Carry out correlative cryo-light microscopy, cryo-focused ion beam milling and cryo-electron tomography to investigate the molecular architecture of neurons directly within intact Drosophila tissues (see Bäuerlein et al., bioRxiv 2023).
• Quantitative analyze cryo-ET data.

Your profile:

• Ph.D. in neurobiology or related fields
• Extensive research experience in Drosophila cell biology and genetics
• Experience with structural techniques is also desired but not mandatory.

We offer:

• A stimulating intellectual environment with innovative research projects
• Excellent scientific and technical infrastructure, including last-generation cryo-EM equipment and computing facilities.
• Opportunities for professional development, including participation in international conferences.
• An interdisciplinary work environment that encourages collaboration between different fields.

• Diverse and interesting benefits as a UMG employee (e.g. in-house daycare center, childcare during holidays, attractive infrastructure, health and sports promotion through excellent company health management)

• Location in a beautiful and historic German university town with a campus that includes the University of Göttingen, the Max Planck Institutes, the German Primate Center and other research facilities on site

Applications should include a motivation letter, CV and the contact details of at least two referees. They should be uploaded here: https://umg.recruiting-portal.com/karriere/?origin=param#~/application/1309/uws-krypt or sent by email to Prof. Fernandez-Busnadiego at ruben.fernandezbusnadiego@med.uni-goettingen.de.

For further information or any further inquiry, please also send to the above email address. We look forward to receiving your application by August 31st, 2024.
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Please send your application only via e-mail as a PDF-file.

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