PhD position open

@scholzlab Leipzig University, Germany

Start date: 1st February, 2024 PhD position (3 years: TV-L E13, 65 %)

Adhesion-type G protein-coupled receptors (aGPCR) are a unique subfamily of GPCR that play essential roles in various physiological processes. They have emerged as important players in mechanobiology, allowing cells to sense and respond to mechanical cues in their environment. However, the underlying molecular mechanisms remain largely unknown.

Recently, we have confirmed the expression of structurally distinct 1TM-containing aGPCR isoforms and demonstrated their necessity for neuronal mechanosensing in vivo in Drosphila. We now aim to capitalize on these findings to understand the activity, signaling profiles, and cell autonomy of specific aGPCR isoforms and their ligands.

To this end, we are looking for a PhD candidate:

- with a research diploma or master's degree in biology, biochemistry or a related field
- · with experience in basic molecular biology, biochemistry and confocal microscopy
- with experience in electrophysiology and/or Ca2+ imaging (not a must, but a big plus)
- · who is able to establish experimental strategies to answer biological questions
- who is a critical thinker and 100% reliable
- who is team-oriented and willing to work in a collaborative environment

We offer modern technical facilities, an international and collegial environment, and a team striving to understand how Adhesion GPCR shape neurobiological phenomena. The proposed project is embedded in the Collaborative Research Center 1423 "Structural Dynamics of GPCR activation and signaling" and thus offers scientific regular exchange with GPCR experts and other PhD students working on GPCR.

Interested? Send your application to scholzlab@gmail.com

Deadline: Jan 15th 2024

Our most important publications

Buhlan et al., *Nat Protoc, 2023.* doi.org/10.1038/s41596-023-00907-7. Scholz N et al., *Nature*, 2023. doi: 10.1038/s41586-023-05802-5 Bormann A, et al., *Biorxiv*, 2023. doi: 10.1101/2023.01.11.521585.. Beliu G et al., *Mol Cell*, 2021. doi: 10.1016/j.molcel.2020.12.042. Scholz N, *Front Oncol*, 2018. doi.org/10.3389/fronc.2018.00059. Scholz N, et al., *eLife*, 2017. doi: 10.7554/eLife.28360. Scholz N et al., *Cell Rep*, 2015. doi: 10.1016/j.celrep.2015.04.008.