

## PhD STUDENT POSITION (5844) (65% German TV-L E13)



A PhD position is immediately available at the Rudolf Schönheimer Institute of Biochemistry, Medical Faculty, Leipzig University, Germany to study Adhesion G protein-coupled receptor (Adhesion GPCR) signalling mechanisms.

Adhesion GPCRs form the second largest class of GPCRs and are highly essential in health and disease, rendering them promising drug targets. However, their signalling mechanisms are different from other GPCR classes in several ways. One key to Adhesion GPCR signalling is their complex N termini, which mediates classical activation of G protein pathways (*cis*) and signals solely elicited by the N terminus (*trans*). Our group uses the nematode *Caenorhabditis elegans* to delineate both modes, the dynamics of the extraordinary N termini, and how they translate signal into function.

### Specific focus:

The main aim of the PhD project will be to identify the requirements for receptor activation and to study how activity is modulated. The different aspects of this project will be assessed using *in vivo* and *ex vivo* analyses in *C. elegans* in combination with cell, molecular and protein biochemical approaches and high-end imaging techniques.

The successful applicant will join an enthusiastic and multidisciplinary group. Our laboratory is located in the centre of Leipzig, a flourishing city with a wide cultural, historical, as well as scientific environment. Leipzig University provides several accompanying qualification programmes for soft skills which are open to PhD students. The PhD position is embedded in the research consortium CRC1423 *Structural Dynamics of GPCR Activation and Signaling*.

### Required qualifications:

Applicants must have a Master's or equivalent degree obtained in natural or life sciences less than 3 years ago and should have a background in molecular biology, genetics, cell biology or biochemistry. Experience in the work with *C. elegans* or GPCRs is desirable. We are looking for a highly motivated candidate who enjoys scientific research and working in a team. Excellent communication and organisation skills are also expected, as well as fluent communication in English.

### How to Apply:

Please send a letter of motivation, Curriculum Vitae and copies of education certificates to Bereich Personal der Medizinischen Fakultät der Universität Leipzig, Liebigstraße 27, Haus E, 04103 Leipzig

or in **in one pdf** document to [simone.proemel@medizin.uni-leipzig.de](mailto:simone.proemel@medizin.uni-leipzig.de)

*Please note that applying by email is not entirely secure and may pose a privacy risk. The sender assumes full responsibility.*

*Severely disabled persons are encouraged to apply and will be given preference in the case of equal suitability.*

*By submitting your application, you give your consent that your personal data will be collected and stored for the purpose of the application process. Further information on privacy policy can be found here:*

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