

Postdoc position in Protein Biochemistry/Structural Biology



Project Title: Membrane remodeling by the tail-anchored protein insertase

Contact:

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JOB DESCRIPTION

Our research group located at the Heidelberg University Biochemistry Center (BZH) performs cutting-edge research on the structural and functional analysis of molecular machines involved in protein synthesis and targeting, including membrane proteins of key importance in signaling. One of our interests is the insertion of TA membrane proteins by the GET (guided-entry of tail-anchored proteins) pathway. Recently, we obtained detailed insights into the insertion machinery by cryo-EM structure determination. We are now interested in the functional importance of membrane remodeling by the insertase and in the lipid/protein interplay.

KEY WORDS

Membrane protein biochemistry and structure determination, GET insertase, lipid-protein interaction.

TECHNIQUES APPLIED

The successful candidate will apply a variety of approaches central to structural biochemistry and molecular cell biology of membrane proteins, including high-end membrane protein expression, purification, characterization (e.g. BLI, MST, ITC, XL-MS, lipidomics) and structure determination using single-particle cryo-EM (access to high-end cryo-EM instrumentation as part of HDcryoNET) and X-ray crystallography (inhouse crystallization platform).

You will be part of thriving collaborative research projects. Communication of results at meetings, conferences, etc. and through high-impact publications is integral to your development as scientist.

DESIRED QUALIFICATIONS

PhD in biochemistry or structural biology; strong interest in membrane protein biochemistry; helpful: experience in cryo-EM.

The successful candidate will be part of the structural biology team headed by Prof. Irmgard Sinning (www.bzh.uni-heidelberg.de/sinning/) at the BZH of Heidelberg University, one of the leading research Universities in Europe in an excellent scientific environment. The salary is in accordance to the Public Sector Collective Agreement on Länder (TV-L E13). Application deadline is 15th of January.

We are looking forward to your application including a CV, (degree) certificates, a list of publications, a letter of motivation and contact details of two referees (or letters of reference). Please send your application as single pdf document by email to: irmi.sinning@bzh.uni-heidelberg.de.

Heidelberg University is an equal opportunity employer. Qualified women are therefore particularly encouraged to apply. Applicants with disabilities are treated with preference given comparable qualification.