Postdoctoral fellow to study GPCR structural biology

Type of employment: Postdoctoral researcher on stipend, 2 years
Extent: 100%
Location: University of Gothenburg, Sweden
First day of employment: As soon as possible, upon agreement

A postdoctoral position is available immediately to study GPCR structural biology in the Johansson lab at the University of Gothenburg.

Project Description
G protein-coupled receptors (GPCRs) are key transmembrane proteins that serve to transduce external stimuli to signals across the membrane and they constitute about 30-40% of all therapeutic drug targets. GPCRs are inherently allosteric and interact via distinct domains with both endogenous and synthetic compounds, proteins, metabolites, hormones and small molecules. Methodological breakthroughs have accelerated structure determination of GPCRs, however our understanding of the molecular basis of signaling complexes remain elusive. We will characterize these complexes using structural, biophysical and pharmacological methods.

The successful candidate will work on the structure and function of select GPCR signaling complexes using a combination of structural, biochemical and pharmacological approaches. The candidates will be encouraged and expected to conduct their research independently and to plan and execute research tasks in a timely manner. The candidates are also expected to travel for data collection purposes and to participate in collaborations with other research groups (either within Sweden or abroad). Additionally, the candidates may also be asked to assist in supervision of Master's or doctoral students.

Qualifications
We are looking for candidates with an interest in signaling, structural biology or pharmacology. The applicants must have a PhD in a relevant area of research such as medicine/biology/chemistry/pharmacology or related fields (for example structural biology, biochemistry or biophysics). The successful candidates should have extensive experience in cell cultivation (preferably eukaryotic cells), signaling, interaction studies as well as protein purification. Great emphasis will be placed on the candidate's personal suitability for the position and interest in the subject area as well as their long-term research goals. The work involves close collaborations with other researchers and thus demands flexibility and a willingness to travel for data collection purposes. Excellent communication skills (spoken and written) in English are a prerequisite for the position.

How to apply
Please send you application to linda.johansson.4@gu.se

- Cover letter giving a description of previous research experience and a motivation to why you are applying for this position
- CV and publication list
- Copies of relevant degree certificate(s)
- Names and contact information of at least two reference persons

For further information about the project and position, please contact linda.johansson.4@gu.se

You are welcome with your application.