Reference number 320/2019

Doctoral Researcher (m/f/d)

fixed term until 31 December 2023
remuneration: salary group 13 TV-L

The Faculty of Life Sciences/Institute of Biochemistry seeks to fill the above position starting from 1 March 2020 or at the earliest opportunity.
The PhD position is embedded in the research consortium CRC1423 Structural Dynamics of GPCR Activation and Signaling and will be hosted in the research group Synthetic Protein-Biochemistry (Professor Dr. Irene Coin). Our research aims at discovering how peptides and proteins interact with each other, with a major focus on G-protein coupled receptors (GPCRs). We have pioneered novel strategies to investigate protein and peptide interactions directly in the natural environment of the live cell. In particular, we develop and implement the most modern molecular biology techniques to genetically encode unnatural amino acids that allow for extensive crosslinking studies. The aim of this project is to discover how the Y5 receptor, an interesting target for obesity and stress related disorders, interacts with its natural ligands. Understanding the molecular mechanisms of binding is the first fundamental step for drug design as well as for the elucidation of functional dynamics. You will get exposed to a broad palette of molecular biology and biochemistry techniques, ranging from bacterial work to amber suppression techniques, from mammalian cell culture to peptide chemistry, analytic methods and molecular modeling. You will work in an interdisciplinary network, in mutual exchange and collaboration with our partner labs in Berlin, Leipzig, Halle and the USA. Our laboratory provides modern equipment and intense personal supervision in a group of team-minded colleagues. Please visit our website for more information (https://biochemie.lw.uni-leipzig.de/arbeitsgruppen/synthetische-proteinbiochemie/).

Job description
- your work will include cloning, high throughput mutagenesis, cell culture, protein biochemistry (peptide synthesis, protein expression, crosslinking), protein analytic (HPLC, SDS-PAGE, western blotting), fluorescence microscopy, signal transduction assays
- you will be offered the opportunity to develop additional skills in molecular modeling
- the project allows for personal development in scientific working skills, project management, scientific writing and data presentation

Requirements
- you have a M.Sc. degree in biochemistry, biotechnology, biology, chemistry or equivalent
- you are acquainted with basic molecular biology techniques (cloning, SDS-PAGE, etc.)
- ideally, you have practical experience in mammalian cell culture and peptide synthesis
- you are open minded, self-organized, and capable of working in a team
- your English is fluent

Please send your application with the usual documents, quoting reference number 320/2019 preferably by e-mail to irene.coin@uni-leipzig.de.

Leipzig University
Faculty of Life Sciences/Institute of Biochemistry
Frau Professor Dr. Irene Coin
Brüderstraße 34
D-04103 Leipzig

by no later than 10 January 2020.

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.
Privacy information

The personal data contained within your application documents or obtained during the interview will be processed exclusively for the purposes of the selection process for the position advertised. The legal basis for such data processing is Section 11(1) of the Saxon Data Protection Implementation Act (Sächs DSDG) in conjunction with the EU General Data Protection Regulation (GDPR). The controller for the application process within the meaning of the GDPR is the addressee of the application, as specified in the respective advertisement. When processing your application, your personal data will be passed on within Leipzig University to:
- members of the selection committee
- the human resources management teams
- the Commissioner for Equal Opportunities
- the Disability Officers and
- if necessary, the Staff Council
as part of their organisational or statutory responsibilities.

Your personal data will be erased no later than six months after completion of the selection process. In accordance with the GDPR, subject to the relevant statutory requirements you have the following rights vis-à-vis the addressee of the application with regard to your personal data: right of access (Art. 15 GDPR); right to rectification of inaccurate personal data (Art. 16 GDPR); right to erasure (Art. 17 GDPR); right to restriction of processing (Art. 18 GDPR); and right to object to processing (Art. 21 GDPR). If you have any questions, please contact the Data Protection Officer at Leipzig University (office: Augustusplatz 10, 04109 Leipzig). You also have the right to lodge a complaint with the Saxon Commissioner for Data Protection.