

Ph.D. student position at the Charité Center for Cardiovascular Research in Pharmacological Research on Biased GPCR Ligands

Description

The Center for Cardiovascular Research, located in central Berlin at the Charité Campus Mitte, is inviting for applications for a Ph.D.-position, funded by the Else Kröner-Fresenius Foundation, starting in Summer 2017. We seek enthusiastic and highly motivated Ph.D.-students to conduct pharmacological research on biased GPCR ligands and drug development.

The concept of ligand-biased signaling is based on work by Robert Lefkowitz and Brian Kobilka (Charité / BIH Visiting Professor 2017 - 2020), which was rewarded with the Nobel-prize in 2012. Following up on our own previous work on differential G-protein signaling in vascular disease (*Althoff et al, J Exp Med 2012*), we now set out to investigate the still unknown structural basis of ligand-biased signaling and to develop novel drugs targeting vascular receptors based on this concept. In this respect, we are integrating a network of leading GPCR researchers.

Work areas will include a high-throughput screening at the Leibniz Institute for Molecular Pharmacology and various signaling assays, comprising a method transfer from the INSERM Toulouse (lab of Céline Gales; *Sauliere et al. Nat Chem Biol 2012*). Moreover, we will employ a number of murine disease models to test therapeutic compound effects in vivo. We will further cooperate with structural biologists (Prof. Hildebrand & PD Dr. Scheerer, Institute for Medical Physics and Biophysics) to define structure-function relationships using computational modeling and crystallography.

Qualifications

Good skills in molecular cell biology are required. Knowledge in signaling and cloning is highly appreciated. Candidates should have an excellent command of written and spoken English.

Contract

Salary will be according to German employment rules (E13, 65%), funded by the Else Kröner-Fresenius Foundation. The contract is offered for three years starting in Summer 2017.

Application details

Please send your CV with a motivation letter and two contact references, preferably all in one PDF, by E-Mail, to:

Till Althoff, M.D., Research Group Leader & Senior Cardiologist
Charité University Medicine Berlin, Department of Cardiology and Vascular Medicine &
Center for Cardiovascular Research; till.althoff@charite.de

Closing date for applications: June 30, 2017

The Charité University Medicine is an equal opportunities employer