UNIVERSITÄTS KLINIKUM jena

The Institute of Physiology II invites applications for the position

Doctoral Researcher (m/f/d)

(reference number: DM37/2021)

initially limited to 3 years

Project description:

Metabotropic Glutamate receptors are dimeric G protein-coupled receptors (GPCR) and are important in long-term processes in the brain, including e.g. learning. The goal of the research project is to analyze how the two subunits influence each other on a molecular level. Cooperativity within homo- and heterodimers will be evaluated using Förster resonance energy transfer (FRET) and Fluorescence-lifetime imaging microscopy (FLIM).

We offer:

» interdisciplinary team, support and coaching in new techniques
» excellent equipment, infrastructure and technical support
» well established biological system and technical tool-box to develop the project on
» centrally located in the inner City

Methods offered:

» Förster resonance energy transfer (FRET)
» Fluorescence-lifetime imaging microscopy (FLIM)
» Patch-clamp
» Molecular biology
» Kinetic and molecular modeling

Requirements:

» Master (or equivalent) in live-sciences, chemical or physical sciences
» interest in quantitative description of biological processes
» high motivation to learn new techniques and work interdisciplinary
» ability to work independently and develop own ideas
» advantageous are training or experience in/with one of the following: microscopy, molecular biology, physical chemistry, biophysics or pharmacology

Your contact:

Coordinator Jena School of Molecular Medicine
Anne Knierim
+49 3641 9-395692

Dr. Ralf Schmauder
ralf.schmauder@med.uni-jena.de

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