Julius-Maximilians-
UNIVERSITÄT
WÜRZBURG

FAU FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG

UR Universität Regensburg

Elite Network of Bavaria

The International Graduate Program

"Receptor Dynamics: Emerging Paradigms for Novel Drugs"

invites applications for seven (7) PhD positions

The International Graduate Program "Receptor Dynamics: Emerging Paradigms for Novel Drugs" is a joint initiative of the Universities of Würzburg (coordinating institution with 4 offered positions), Erlangen-Nürnberg (2 positions), and Regensburg (1 position) which is funded by the Elite Network of Bavaria, Germany. The overall scientific focus is on exploring dynamic features of G protein coupled receptors (GPCRs), one of the prime targets for drug development and therapy, from the molecular level to microscopic and macroscopic functions. The Graduate Program offers a highly interdisciplinary training covering medicinal chemistry, molecular pharmacology, biophysics, as well as nuclear medicine.

We invite applications for seven (7) PhD positions within our graduate program until 31 October 2018.

We offer...

- Seven highly interdisciplinary PhD projects
- A widely visible international research environment
- Possibility to work with excellent, internationally recognized collaboration partners
- A thesis committee comprising of three supervisors
- A large network of peers
- Broad scientific and professional skills training including tutoring for international students
- Salary according to the German pay scale TV-L (i.e., 65% of a postdoctoral position)

We expect...

- Excellent MSc degree in life or natural sciences or State Exam degree in Pharmacy
- Passion for and experience in research
- Proven excellence in oral and written English
- Readiness to actively contribute to the colleague and collaborate with all peers
- Willingness to take the extra step of an interdisciplinary approach towards a PhD

Topics of the available PhD projects cover the following areas:

- Dualsteric ligands for opioid receptors
- Vehicles for diagnosing and treating neurodegenerative disorders
- Photochromic cannabinoid 1 and cannabinoid 2 receptor ligands as affinity- and efficacy switches
- Muscarinic receptor positron-emission tomography (PET) imaging developed from allosteric modulators
- Cross-talk between adhesion receptors and GPCRs using label-free approaches
- Irreversibly-binding GPCR Ligands and slowly diffusing analogs
- Addressing ligand specific conformation of GPCRs by quantitative mass spectrometry

Interested?

Detailed project information and application link: https://go.uniwue.de/application-enb

Application deadline: 31 October 2018

Contact: receptordynamics@uni-wuerzburg.de
Speaker: Univ.-Prof. Dr. Michael Decker and Univ-Prof. Dr. Martin Lohse, University of Würzburg
Coordination: AR Dr. Ludwig Höllein, University of Würzburg
Links: https://www.elitenetzwerk.bayern.de/; https://www.uni-wuerzburg.de/pharmazie