

The Institute of Clinical Pharmacology at the University Medical Center Göttingen invites applications for

# PhD student position (m/f/d) in pharmaco- logy and molecular biology

for 3 years, part time (25h/week) | Entgelt nach TV-L

## About us

The University Medical Center Göttingen is a tertiary care center and offers great development potential. Its 7,900 employees work in over 65 departments and facilities to provide top-quality patient care, excellent research and modern teaching. Göttingen, "City of Science", located near the center of Germany, the University Medical Center Göttingen is embedded in the city's attractive network of scientific research facilities.

The Institute of Clinical Pharmacology is conducting research on new and established drugs with a focus on the evaluation of drug effects, efficacy, safety, and tolerability. The aim of our research activity is to identify and optimise personalised therapy options tailored to individual patients or patient groups. To this end, interdisciplinary medical expertise is combined with methodological excellence to gain new knowledge for important medical indication areas.

Our methodological approaches include mainly:

- molecular and cell biology, in vitro assays, genotyping
- clinical studies of drugs involving patients and healthy volunteers
- pharmaceutical analytics in biological samples

The Institute of Clinical Pharmacology is working towards more efficient and safer drug therapies for patients to improve health and well-being.

Research project:

Almost a third of drugs currently on the market constitute racemic mixtures, and stereoisomers can differ significantly in their therapeutic and adverse effects.

The aim of this project is to contribute to a more comprehensive knowledge of stereoselective recognition of substrates and inhibitors by drug membrane transporters. The focus will be on organic anion and organic cation transporters of the solute carrier family that mediate uptake of drugs into the liver and kidneys for metabolism and elimination. We are particularly interested in transport proteins that show pronounced differences in their activity due to genetic variation with the overall aim to enable a more precise individualisation of drug therapy. Stereospecificity will be studied in clinically relevant combinations of transporters and substrates or inhibitors using in vitro assays and HPLC-MS/MS analyses. Cell lines recombinantly expressing these transporters will be created using molecular biological techniques. Altogether, this project will contribute to the development of more effective and safe drugs as well as in individualised therapy.

We require:

- very good to excellent university degree (Masters, State Exam, Diploma, or similar) in Molecular Medicine, Molecular Biology, Biochemistry, Biology, Biotechnology, Pharmacy, or a related field
- advantageous but not a requirement is practical experience in molecular biology, in vitro assays, or HPLC-MS analytics
- high intrinsic motivation and commitment

- ability to work independently as well as in a team
- perseverance and flexibility
- English language proficiency

We offer:

- interdisciplinary scientific environment
- a friendly and welcoming work environment
- international networking possibilities
- competitive salary according to 65 % TV-L for 3 years

Please send your application (CV, letter of motivation, certificates and transcripts (including high school diploma), references or a list of possible referees) until April 30Th 2020.

Women are especially encouraged to apply. Applicants with disabilities and equal qualifications will be given preferential treatment.

We look forward to receiving your application by April 30th, 2020:

University Medical Center Göttingen  
Institut für Klinische Pharmakologie  
Dr. Muhammad Rafehi  
37099 Göttingen  
Tel.: 0551/39-13247  
Fax: 0551/39-12767  
E-Mail: [muhammad.rafeh@med.uni-goettingen.de](mailto:muhammad.rafeh@med.uni-goettingen.de)

Please send your application via e-mail in PDF-format or via mail in copy and not in folders.

Travel and application fees cannot be refunded or transferred.