

The Dr. Margarete Fischer-Bosch Institute of Clinical Pharmacology, Stuttgart (Director Prof. Dr. M. Schwab) is operated by the Robert Bosch Foundation. Since its foundation in 1973, the institute has emerged as Germany's largest and most renowned scientific research unit in the field of clinical pharmacology. Main research activities concentrate on the influence of genetic and non-genetic factors on variability of drug efficacy and their contributions to disease development.

Currently, we are looking for a

PhD student (m/f) – mass spectrometry-based metabolomics

for the second relaunch of a graduate program focusing on “Membrane-associated Drug Targets in Personalized Cancer Medicine”. The PhD project will focus on the establishment of stable isotope-resolved metabolomics as test system to identify potential new drug targets and/or biomarkers in cancer therapy.

Your tasks include:

- Establishment and characterization of cancer cell lines using a broad range of molecular and cell biological techniques including RT-PCR, immunoblotting, cell proliferation assays and flux measurements
- Support the establishment and characterization of a mouse tumor xenograft model
- Set-up of a mass spectrometry-based stable isotope-labeling workflow for the assessment of pathway alterations
- Evaluation and establishment of data analysis tools for preprocessing and statistical analysis of mass spectrometric data derived from stable isotope-labeling experiments
- Capacity and enthusiasm to undertake the training activities of a graduate program supported by the Interfaculty Centre for Pharmacogenomics and Pharma Research (ICEPHA). For further information please also visit our website at <https://www.icepha.de/>

Your qualifications:

- Master degree (M.Sc.) in chemistry, biochemistry, molecular medicine, pharmaceutical sciences or a related discipline
- Experience and solid background in analytical chemistry including mass spectrometry
- Preliminary experience in cell culture techniques and statistical analysis of mass spectrometric data would be beneficial
- Interest in oncology and personalized medicine
- Excellent English written and oral communication skills

We offer:

- The opportunity to work in an interactive team providing support and mentoring
- State-of-the-art equipment and technologies for a wide range of different applications (genomics, transcriptomics, metabolomics) and expert knowledge within the different core facilities at the institute
- Participation in the PhD program of the ICEPHA
- The opportunity to communicate scientific results at international conferences and to participate in workshops
- A unique feature of the educational program is the co-supervision of each PhD student by a team of investigators, which contribute with their unique expertise to the progress of the projects
- An initial contract for 3 years and flexible starting date (earliest starting date at January 1st, 2019)

For further information please contact Dr. Mathias Haag (phone 0711-8101-5429) or Dr. Ute Hofmann (phone 0711-8101-5907).

Please send your application including a CV, cover letter, and certificates via email to: mathias.haag@ikp-stuttgart.de and ute.hofmann@ikp-stuttgart.de or by post to:

Dr. Margarete Fischer-Bosch-Institut für Klinische Pharmakologie

Frau Dr. Hofmann and Herr Dr. Haag

Auerbachstrasse 112

70376 Stuttgart

www.ikp-stuttgart.de