

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

PhD students (m/f)

for the second relaunch of a graduate program focusing on “Membrane-associated Drug Targets in Personalized Cancer Medicine”. The PhD projects will address various aspects of cancer therapy and tumor cell biology, including tumor heterogeneity. The projects will be closely linked to clinical aspects of cancer research.

Your tasks include:

- Application of a broad spectrum of basic molecular and cell biological techniques, including FACS analyses, immunohistochemistry, and immunofluorescence
- Characterization of primary tumors on different molecular levels using state-of-the-art methods (genomics, transcriptomics, metabolomics)
- Establishment and characterization of animal and patient-derived tumor models (e.g., organoids)
- Functional testing of drug effects using in vitro and pre-clinically relevant in vivo models
- Analysis of clinical and experimental datasets (e.g., immunohistochemistry, gene expression) using biostatistics and bioinformatics
- 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 biology, biochemistry, molecular medicine, pharmaceutical sciences or a related discipline
- Experience and solid background in molecular biology, human genetics and cell culture technology
- Preliminary experience with 3D cell culture or *in vivo* tumor models 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 Prof. Dr. Matthias Schwab (phone 0711-8101-3700) or Dr. Elke Schaeffeler (phone 0711-8101-3729).

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

Dr. Margarete Fischer-Bosch-Institut für Klinische Pharmakologie

Herr Prof. Dr. Schwab

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