



The German Cancer Research Center (DKFZ) is seeking for the **partner site Dresden of the National Center for Tumor Diseases (NCT)** a

PhD Student

Therapy Response Prediction using Organoids

(Ref-No. 115/2016)

The German Cancer Research Center is committed to increase the percentage of female scientists and encourages female applicants to apply.

Among candidates of equal aptitude and qualifications, a person with disabilities will be given preference.

To apply for a position please use our online application portal (www.dkfz.de/jobs).

We ask for your understanding that we cannot return application documents that are sent to us by post (Deutsches Krebsforschungszentrum, Personal- und Sozialwesen, Im Neuenheimer Feld 280, 69120 Heidelberg) and that we do not accept applications submitted via email. We apologize for any inconvenience this may cause.

Description:

The German Cancer Research Center (DKFZ) and National Center for Tumor Diseases (NCT) offers a PhD position at the Dresden partner site in the research group of Dr. med. Daniel Stange, PhD and Prof. Dr. med. Thilo Welsch located in the Surgical Research Laboratory, University Hospital Dresden. We invite applications of a PhD student highly motivated to work in the field of translational biomedicine to explore the molecular basis of therapy response.

Our group focuses on adult stem cells of the intestine and the stomach. We try to understand the mechanisms by which these stem cells maintain homeostasis within the tissue, but also how they react upon challenges like inflammation. Furthermore, we are interested in the role of these stem cells in tumor initiation and tumor growth in the mouse and human system. To approach these questions we are using state of the art technologies such as genetically modified mice, 3D organoid cultures and genetic editing tools like CRISPR/Cas. The topic of this PhD position is the establishment and treatment of human pancreatic cancer organoids in the setting of a clinical trial to predict therapy response. In addition, exosome markers and liquid biopsies of the same patients will be analyzed. Candidate genes for therapy response will be further analyzed by genetically manipulating mouse pancreatic organoids derived from Cre/Lox mice carrying pancreatic cancer specific mutations.

Further background can be found on the lab homepage (<https://www.uniklinikum-dresden.de/de/das-klinikum/kliniken-polikliniken-institute/vtg/forschung/Forschungslabor/ag-stange/ag-stange>)

Your profile:

- Diploma thesis or Masters degree in biology, biochemistry, molecular medicine or related fields
- Previous experience with basic biochemical and molecular biology techniques is essential

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- High motivation and strong interest in translational biology/medicine
- Excellent German or English language skills
- Enthusiasm for working in an ambitious, multi-disciplinary research group

We offer:

- Interesting and multifaceted workplace
- Reimbursement according to TV-L
- Flexible working hours
- Advanced training possibilities

Please include in your application a letter of motivation, CV, certificates and recommendation letters.

Duration:

The position is limited to 3 years.

The National Center for Tumor Diseases is located in the premises of the University Hospital Carl Gustav Carus Dresden.

Contact:

Prof. Dr. Thilo Welsch / Dr. Daniel Stange, phone 0351 458-5239.

Application Deadline:

June 8, 2016