

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

PhD Student

(Ref.-No. 2018-0327)

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, Personalabteilung, Im Neuenheimer Feld 280, 69120 Heidelberg) and that we do not accept applications submitted via email. We apologize for any inconvenience this may cause.

Your tasks:

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 groups of Prof. Mechthild Krause and Prof. Anna Dubrovskaya located in OncoRay – The National Center for Radiation Research in Oncology, Dresden. We invite applications for a PhD student highly motivated to work in the field of translational bio-medicine to develop new immunotherapeutic approaches for tumor radiosensitization.

Our groups are working on identifying tumor biomarkers for radiation oncology which can be used to aid cancer prognosis and treatment. Biomarkers that are deregulated in cancer stem cells (CSC) are of special interest because they may be used to predict treatment outcome and serve as potential targets for cancer therapy.

This PhD project aims to validate CSC-related therapeutic targets and apply the combination of radiation with state-of-the-art immunotherapies using different in vitro and animal tumor models. In addition, immunohistochemical tissue staining and molecular profiling of the treated tumors will be analyzed. The position is embedded in a joint project between three groups with strong experience in radiation oncology (Prof. Mechthild Krause), radiation biology (Prof. Anna Dubrovskaya), and development of BiTEs and CAR T-cells (Prof. Michael Bachmann).

References:

Peitzsch C et al., Cancer Res. 2016; 76(9):2637-51;

Linge A et al., Clin Cancer Res. 2016;22(11):2639-49;

Cojoc M et al., Cancer Res. 2015;75(7):1482-94;

Kurth I et al., Oncotarget 2015;6(33):34494-509.

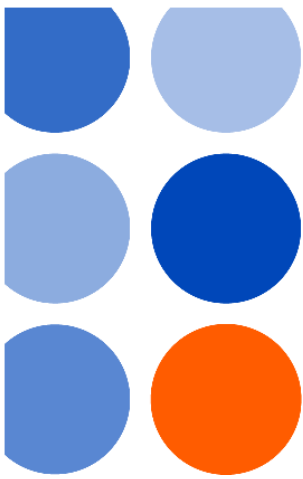
Castro Nava A et al., Int J Cancer 2015;137(10):2492-503;

Kloss CC et al., Nature Biotechnology 2013; 31(1):71-5.

Further background can be found on OncoRay homepage:

<https://www.oncoray.de/research/translational-radiooncology-and-clinical-radiotherapy/>

<https://www.oncoray.de/research/biomarkers-for-the-individualized-radiotherapy/>



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Your profile:

- Strong interest in tumor biology and translational radiooncology
- Master of science degree or equivalent in biology, biochemistry, biotechnology, molecular medicine or related fields
- Experience in molecular and cell biology techniques
- High motivation to work in ambitious, multi-disciplinary and international research group
- Ability to work independently, as part of a team and in collaboration with others
- Strong problem-solving skills and creative thinking
- Experience in working with laboratory animals (mice) is desirable but no essential
- Fluency in spoken and written English

We offer:

- Interesting and motivating workplace
- Arranging for flexible working hours to find a balance between work and family life
- Taking part in job-oriented educational courses

Further information:

Prof. Anna Dubrovskaja, anna.dubrovskaja@oncoray.de

Prof. Mechthild Krause, Mechthild.Krause@uniklinikum-dresden.de

Contract period:

The position is limited to 3 years.

Contact:

Ms Heidrun Groß, phone +49 (0) 351 458 5239

Please note that we do not accept applications submitted via email.

Application deadline:

01.02.2019

