

The German Cancer Research Center (DKFZ) is seeking for the partner site Freiburg of the German Cancer Consortium (DKTK) for January 2018 a

Postdoctoral Fellow in Molecular Biology / Cancer Genetics / RNA Biology

(Ref-No. 319/2017)

Description:

Our research division explores the molecular mechanisms underlying carcinogenesis with a special emphasis on lung cancer and the role of non-coding RNAs and RNA-Protein complexes (Cell 2007, Nat Cell Biol 2009, Genome Res 2011, Cancer Res 2013, Nat Commun 2014, Nucleic Acids Res 2017) as well as novel types of mutations (EMBO Mol Med 2016). The method spectrum in our lab ranges from innovative techniques from molecular and cell biology like diverse CRISPR techniques (Nucleic Acids Res 2017) or RNA-Protein complex identification (Nature 2015) to applications in bioinformatics and biochemistry. Our lab in Freiburg is newly equipped with state-of-the-art instrumentation.


We are seeking a highly motivated postdoctoral fellow with significant and published experience in the area of molecular biology and cancer research, ideally in RNA biology or lung cancer research. The core project of the postdoctoral fellow will be the functional characterization of molecular aberrations in lung cancer involving but not limited to non-coding RNAs. Research questions will include coding and long non-coding RNAs (lncRNAs) and their regulation, cellular functions and molecular mechanisms as well as epigenetic and post-transcriptional mechanisms of gene regulation. The integration of genomic, transcriptomic, proteomic and functional data will address fundamentally new questions about the interaction and regulation of genes, RNAs and proteins in normal and malignant cells as well as in processes like cell proliferation, migration and drug response. As a comprehensive resource to build on, we have compiled a large panel of 50 lung adenocarcinoma cell lines for which we profiled mutations, mRNA and ncRNA expression, proteomics and phosphoproteomics as well as screened for proliferation, migration, drug response and vulnerabilities using CRISPRi. Jointly with the division head, new projects within the focus area of the lab can also be developed and supported to allow the growth into scientific maturity and independence.

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.



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Your profile:

You are a highly motivated postdoctoral fellow with a PhD / Dr. rer. nat. in a life science field and are eager to pursue and lead research projects on the molecular biology of lung cancer or tumor genetics with creativity, ambition, independence and team spirit. You have published experience in techniques of cellular and molecular biology or cancer research. Practical knowledge of bioinformatics would be beneficial. You work efficiently, goal-oriented and accurate, have a deep interest in research and are proficient in English.

Duration:

The position is limited to 2 years.

The Translation Centre is located in the ZTZ (Center of Translational Cell Research) at the University Medical Center Freiburg.

Contact:

Prof. Dr. Sven Diederichs, phone +49 761 270-77571.

Application Deadline:

December 7, 2017

The position can in principle be part-time.