

Job posting

Type of position

scientific
administrative

Target group

graduates
post docs
other

Title Scientific Coworker/ Postdoc

Institution The German Cancer Research Center is the largest biomedical research institution in Germany. With approximately 3,000 employees, we operate an extensive scientific program in the field of cancer research.

Position Scientific Coworker/ Postdoc
(Ref-No. 119/2018)

Responsibilities The division “Episomal-Persistent DNA in Cancer- and Chronic Diseases” analyzes human patient material for the presence of a novel group of putative pathogens termed Bovine Meat and Milk Factors (BMMFs) which are frequently isolated from bovine meat and milk. These plasmid-related episomal DNA agents are speculated to represent specific long-latency risk factors for the development of several major human diseases like breast and colon cancer as well as neurodegenerative diseases – several of those epidemiologically linked with bovine meat and milk consumption. We recently verified BMMF bioactivity in human cells along with specific modulation of disease-relevant host pathways. In addition, we established a spectrum of diagnostic screening tools allowing detection of putative pathogenic proteins as well as analysis of indicative serological and immunological response patterns.

With a strong focus on BMMF genome/transcriptome/proteome analysis, the aim of the new research project is the identification of additional disease markers but also specific immunologic analysis of human response upon infection with already known BMMFs. Human cell culture infection models as well as selected animal models are the tools for detailed analysis of BMMF contribution to cancer/disease development, which serves as a milestone for interventions like targeted therapy/vaccination.

In this multifaceted project the successful candidate exploits experimental techniques in the field of immunology, virology as well as molecular biology (e.g. DNA/RNA Sequencing, PAR-

CLiP/RACE, mass spectrometry, serological/protein screening assays e.g. WB/NB/IF/IHC/ELISA/FACS). We offer a research project with access to excellent technical facilities and a place in a dynamic and creative international team with strong scientific collaborations.

Requirements

The successful candidate should hold a PhD degree (or equivalent) in Life Sciences (e.g. Biology, Biochemistry, Microbiology, Virology, Medicine) with a strong motivation for exploring a new and unique research field opening up a very promising perspective for fruitful establishment of networks with experienced scientists. You have a strong enthusiasm in establishing new experimental procedures, both working as a team-player but also independently. Theoretical knowledge in the following subjects is mandatory: Immunology, Molecular Biology/Genetics. Interest in molecular mechanisms of pathogenicity/virology as well as profound experience in establishment of cell lines/infection models/animal work is a plus.

Further qualifications:

- You are a cooperative team player and are easily communicating with your international lab members in English
- Software for data analysis/documentation: MS office (Word, Excel), Photoshop, bio-statistical analysis; interest in large data set pipeline analysis, Ingenuity Pathway Analysis
- Reliable and flexible way of working with proper documentation; hands-on mentality with high level of organization and strongest motivation for the scientific project

Please send a single pdf file including CV, university degrees/certificates, cover letter stating research and career interests as well as project ideas, expected availability date, and at least 1 expressive letter of reference. Incomplete applications will not be considered or acknowledged.

For more information please visit our web page at www.dkfz.de

The position is limited to 2 years. The position can in principle be part-time.

Application procedure (deadline etc.)

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.

Contact

For further information please contact
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