

Job Advertisement

Postdoc Position **(HHU Düsseldorf, Germany)**

At the Institute of Toxicology at the Medical Faculty of the Heinrich Heine University a postdoc position (TV-L13; 100 %) in the field of molecular and genetic toxicology/pharmacology is available. The vacant position is funded for three years by the Deutsche Forschungsgemeinschaft (DFG) and can be filled immediately.

Job description: The translational research project aims to characterize the pathophysiological relevance of the Ras-homologous small GTPase Rac1 for the dose limiting and tissue specific adverse effects of the anticancer drugs cisplatin and doxorubicin as well as ionizing radiation. This conventional anticancer therapeutics are used as first line treatments in the therapy of numerous malignancies. As nephrotoxicity, cardiotoxicity and lung toxicity are some major dose-limiting adverse effect of these agents, the development of preventive strategies is highly desirable. The aim of the DFG supported project is to genetically validate Rac1 as a therapeutic target in order to widen the therapeutic window of the aforementioned anticancer therapeutics, thereby improving both the therapeutic efficacy of anticancer therapy and the quality of life of cancer patients. To this end transgenic mouse models that are characterized by ubiquitous or cell-type specific deletion of *rac1* will be employed for a detailed analysis of their response to radio-chemotherapy.

Qualifications: PhD in the field of biology, biochemistry, cell biology, toxicology/pharmacology or related scientific domain. Strong theoretical background in molecular and cellular biology and genetic toxicology/pharmacology are required. Disposition to perform animal experiments is essential and hands-on experience with animal models would be preferable.

Applications including letter of motivation, Curriculum vitae, certificates, list of publications and the name of two references should be sent electronically (in 1 pdf file, code word: TOX-10) to bennat@uni-duesseldorf.de (Deadline: December 31th, 2019).

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