



The University of Cologne offers a wide range of scientific disciplines and internationally leading profile areas organized in six faculties. At the Faculty of Medicine 1.800 scientists are engaged in research, ranging from basic sciences to clinical application, as well as teaching and health care. Together with the University Hospital Cologne the faculty maintains 58 clinics, research institutes and centres. 3.400 students study in this dynamic and innovative environment. The Faculty of Medicine and the University Hospital Cologne are embedded in the scientifically highly active Rhine region. They have strong contacts to and alliances with the surrounding universities and non-university research institutions guaranteeing scientific excellence in research and teaching.

The **Institute of Radiochemistry and Experimental Molecular Imaging (IREMB)** is seeking applications for a part time (50%)

PhD Student (f/m)

to be employed under a limited-time contract (Third-Party funding until 30. November 2020).

As part of a DFG-funded project there is a vacant PhD position in the laboratories of Prof. Dr. Bernd Neumaier at the Institute of Radiochemistry and Experimental Molecular Imaging (University Hospital of Cologne). The project will deal with the preclinical evaluation of amino acid-based PET tracers for the visualisation of tumours and transmitter systems. This includes on the one hand the in vitro evaluation in different tumour cell lines and on the other hand the in vivo evaluation in different rat disease models.

The preclinical evaluation forms the interface between development and synthesis of new radiotracers and their applications in human patients. The PhD student will have access to the scientific and technical infrastructure of three different locations: the University Hospital Cologne, the INM-5 at the Research Centre Jülich (FZJ) and the Chemistry Department at the University of Cologne. This offers the best conditions for scientific networking and professional exchange in an interdisciplinary team of radiochemists, biologists and physicians working together on the development and evaluation of new radiotracers for clinical application in neuro- and oncology.

Your responsibilities will include:

- Preclinical evaluation of amino acid PET tracers for the visualization of neurotransmitter systems and for tumour imaging
- Selection and generation of suitable small animal models (surgeries on mice and rats)
- Small animal PET imaging (in vivo studies)
- Cell experiments with different tumour cell lines (in vitro studies)
- Statistical analysis and quantification of the collected data regarding tracer stability (in vitro and in vivo), tracer kinetics and biodistribution

Minimum qualifications:

- Successfully completed studies (M.Sc./diploma) in neurobiology, biochemistry, molecular biology or an equivalent degree
- Willingness to work with different small animal models (rat/mouse)
- Experience in cell culture
- Ability to work independently
- Ability to work in a team and interest in interdisciplinary work

Your salary will be based on TV-L.

Applications from female candidates are welcome; suitably qualified women will be given preferential consideration unless other applicants clearly demonstrate superior qualifications.

We also welcome applications from disabled candidates, who will also be given preferential consideration over other applicants with comparable qualifications.

The position is suitable for staffing with part-time employees.

Please address telephone enquiries to Stefanie Vus at +49 221 478-86806.

Further information is available on the internet at <http://radiochemie.uk-koeln.de/>

Have we awakened your interest? Please submit your application (including a detailed CV, list of publications, two references and a brief statement of research interests) here online www.uk-koeln.de/karriere/stellenangebote

We prefer online applications, but you also have the opportunity to apply via regular mail **by 28 February 2019** quoting the reference number **e021** to

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