

Scientific Researcher up to 65%

Ref. No. C01/2024Hig

The Department of Nuclear Medicine is providing a

Scientific Researcher (f/m/d) up to 65%

for the Preclinical Nuclear Imaging group led by Prof. MD. PhD. T. Higuchi.

With its high-performance cyclotron and clean rooms, the Clinic and Polyclinic for Nuclear Medicine at University Hospital of Würzburg is one of the most modern facilities for GMP-compliant production of radioactive biomarkers in Germany. All diagnostic examinations including state-of-the-art hybrid imaging procedures (PET/CT, SPECT/CT) are offered. In the research group headed by Prof. MD. PhD. T. Higuchi, an international and interdisciplinary research team is engaged in the new development of novel imaging probes for cardiology, neurology and oncology. The research work takes place in the modern laboratories of the German Center for Heart Failure (DZHI).

The present project, C1 "PET-Tracer as Biomarker" financially supported by DFG (SFB1525). This project aims to develop specific PET radiotracers for serial imaging of acute myocardial inflammation. We will longitudinally monitor cardiac neutrophil infiltration as a measure of the "inflammatory burden". This non-invasive diagnostic tool is expected to help further explain the adaptive immune system's role in the development and progression of ischemic cardiomyopathy when time-course and clinical significance are accessible by their respective markers, as developed in this project. (<https://www.ukw.de/forschung-lehre/sfb-1525/startseite/>)

Your major tasks would include:

- Characterize the *in vitro* and *in vivo* radiotracer pharmacokinetics of novel tracers
- Performance of protein and tissue binding assays
- Performance of *in vitro* and *in vivo* analyses of stability and metabolites
- Optional PET imaging, Biodistributions and autoradiography process

The following knowledge or skills are beneficial:

- Biology, Biomedical or biochemistry background (M.Sc. or PhD)
- Experience in *in vitro* especially in the performance and concept of cellular Assays
- FELASA-B Certificate or equal certification for animal experimental work optional
- Fluent German and English in both speaking and writing is required
- Good IT Competence, Experience with Office, GraphPad
- Teamplayer with communication skills
- Experience in working with radioisotopes is optional

We provide:

- A modern and good equipped preclinical Research Laboratory
- A great international research team in a wide range in the work field
- The option for a Job ticket for public transport in Würzburg
- Milon-Cyrrel and other benefits

You will initially be employed until 31.12.2025 with the option of renewing the contract. The salary will be paid in accordance with TV-L and the position is to be filled as soon as possible. Candidates with disabilities are given preference if they are of equal qualification.

We are looking forward to receiving your application including a letter of motivation, CV, and relevant certificates as a single PDF-file via E-mail at [Higuchi Lab@ukw.de](mailto:Higuchi_Lab@ukw.de) or [Mayer L3@ukw.de](mailto:Mayer_L3@ukw.de).