

Ph.D. student (f/m/d) 65%



The Department of Preclinical Imaging and Radiopharmacy (Director Prof. Bernd Pichler) at the University Hospital of the Eberhard Karls University Tübingen competes and collaborates on scientific top level in preclinical imaging with international research groups. The research group of Dr. Bézière (Infection & Inflammation Imaging) is looking for a

PhD Student (f/m/d)

in the field of “Multimodal preclinical imaging of *Aspergillus fumigatus* invasion and treatment”. The position can be filled as soon as possible in part time (65 %) and is initially limited to one year with the possibility of further extension.

Fungal infections are now a major challenge for public health, as the amount of immunocompromised patients is increasing, and more antifungal resistant strains are emerging. In this landscape, the World Health Organization recently published a fungal priority pathogens list to guide research, development and public health action. On that list, the infection caused by the fungus *Aspergillus fumigatus* was highlighted as a global health threat. We aim at providing new tools to address the clinical challenges posed by this infection.

In our previous efforts, embedded in an international research network, we have shown the potential of pathogen specific molecular imaging for diagnosis and therapy monitoring of Aspergillosis, from bench to bedside. During these studies, we have also highlighted the need for further continued work on the approach. In this DFG funded PhD project and in close collaboration with the team of Prof. Gunzer (University of Duisburg-Essen), we want to investigate how modifications of the radiotracer can significantly enhance its diagnosis and therapy monitoring performance using in vitro and in vivo assays, focusing on a multimodal PET/MRI/Fluorescence approach. We fully anticipate this work to translate to the clinics in a short time frame.

We are looking for enthusiastic and highly motivated candidates, eager to answer highly relevant biomedical questions and evolve in an international, multidisciplinary environment using notably state of the art imaging techniques. The candidate, fluent in English, should ideally possess scientific expertise in microbiology (fungal infections), cellular biology, or biochemistry demonstrated by a relevant Master of Science in the field and a keen interest in preclinical imaging sciences. Hands on experience with preclinical PET, MRI or CT imaging is a plus but not a requirement. The successful candidate will be fully integrated in a lively and interactive working atmosphere within a well-connected network of PhD students and scientists in the dynamic city of Tübingen.

For more information, please visit: <http://www.isct.uni-tuebingen.de/wsic>

If you have any questions, please contact PD. Dr. Nicolas Bézière, Office.WSIC@med.uni-tuebingen.de or Tel.: +49 (0) 7071 2987511.

Application Deadline: **26.01.2024**

Please find the full description and application link by [clicking here](#).

Please use this portal for your application only. Please quote the reference number 3665

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