



UNIVERSITÄT
LEIPZIG



Open PhD Position

Founded in 1409, Leipzig University is one of Germany's largest universities and a leader in research and medical training. With around 30,000 students and more than 5000 members of staff across 14 faculties, it is at the heart of the vibrant and outward-looking city of Leipzig. Leipzig University offers an innovative and international working environment as well as an exciting range of career opportunities in research, teaching, knowledge and technology transfer, infrastructure and administration.

Charité is one of the largest employers in Berlin. With a history spanning over 300 years, and a long tradition of medical excellence, Charité offers a wide range of training and career opportunities across a diverse spectrum of professions. Our staff are our greatest resource, from their extensive experience through their skills and expertise to the enthusiasm they bring to their work. Comprising approximately 100 departments and institutes, and spanning four campuses, Charité offers stimulating challenges, a cooperative working atmosphere, and interesting career development opportunities.

In project P03 of the CRC/TR 296 LOCOTACT, we are looking for an applicant with a life science background and a strong interest in interdisciplinary work. The project combines the expertise in neuro-anatomy in Leipzig and the molecular biology expertise in Berlin. The focus of this project is to elucidate the expression and function of a specific thyroid hormone transporter MCT8 in the human brain.

For the project part in Leipzig, we will study the expression of MCT8 in human brains staged for Alzheimer's disease to elucidate potential disease-dependent alterations. The lab has its own brain bank involving body donation and a long-standing experience in histopathology of human neural tissues.

In Berlin, the applicant will be part of a team aiming to design and create FRET-based sensors for determination of thyroid hormone action in living cells by targeting the thyroid hormone transporter MCT8 and the thyroid hormone receptor THRA1. To this end, it would be of advantage if the applicant is familiar with standard biology techniques such as site-directed mutagenesis as well as cell culture and transfection. Functional testing of these sensors will be performed concerning their expression and function. At first glance, the designed sensors will be tested in vitro followed after transient transfection. When functional candidates are identified, the sensor system will be transferred into human iPSC by CRISPR/Cas9 technology.

In addition, state of the art technologies such as single cell sequencing will be performed in Berlin and has to be adopted for brain tissues from body donors from Leipzig.

The salary will be according to the German TV/L. The part-time position (65%) is offered until 30th June 2024 supported by the project CRC/TR 296. The position is available immediately.

Further information

If you need further information about the project P03 in Leipzig and Berlin please have a look on our website <https://www.uni-due.de/crctr296/> or contact:

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How to apply

Necessary documents for application are:

<https://www.uni-due.de/crctr296/graduate-school.php>

- CRC/TR 296 application form
- Curriculum Vitae (CV)
- Degrees certificates

1. Please send application form, CV and degree certificates via E-Mail as a single pdf-file to: irtg-locotact@uni-due.de

2. Please download the

- iRTG recommendation form

and send it to your two references; please kindly ask them to e-mail the form directly to irtg-locotact@uni-due.de

We use your data exclusively for application purposes in accordance with the applicable regulations on data protection. You can find further information in the data protection declaration on our homepage at: <https://www.uni-leipzig.de/en/privacy/>