

The Dresden site of the German Centre for Neurodegenerative Diseases (DZNE) invites as of now applications for a

Postdoctoral Researcher (f/m) within the Core Research Facility „Automated Histology & Imaging” – Code 8004/2016/1

The German Center for Neurodegenerative Diseases (DZNE) is a center of excellence within the Helmholtz Association that performs translational research on Neurodegenerative Diseases. The center includes nine excellence sites in Berlin, Bonn, Dresden, Göttingen, Magdeburg, Munich, Rostock/Greifswald, Tübingen and Witten.

The core research facility (CRF) “Automated Histology & Imaging” offers several state-of-the-art microscope systems. Additionally to standard widefield fluorescence microscopes the Imaging Platform offers two confocal laser scanning microscopes, one two-photon laser, two Spinning Disc microscopes (one of which is set up for long term live cell imaging experiments) and one structured illumination microscope (ApoTome).

Next to the general day-to-day facility support we have specialized in the application and adaption of current clearing protocols, the acquisition of big, volumetric data sets and their subsequent quantification and visualization.

For the image analysis the facility has not only access to a number of commonly available software (both commercial and open-source), but we can also resort to an internal library of automated software tools. Our main focus here is on the topic of “digital atlasing” (merging of multi-modal datasets in a virtual reference space).

The work of the successful applicant will focus on:

- Development of algorithms for the quantitative analysis of stained tissue sections and blocks
- Optimization of screening enabled microscope systems
- Support of processing related user requests within the Imaging Platform
- Occasional support of facility users on the microscope systems
- Networking within the Biopolis Dresden Imaging Platform (BioDIP)

Candidate requirements:

- Candidates must hold a university degree in Biosciences, Bioinformatics or a related subject
- Experience in writing ImageJ plugins and macros, as well as one additional language like Python, R and/or Java is essential
- Long years of experience in the programming of scripts and macros towards the development of new image analysis software
- Prior practical experience with and knowledge about state-of-the art microscope systems are an asset
- Profound knowledge of the current imaging techniques, as well as acquisition software is required
- Experience with image registration would be a plus
- Fluency in English
- Excellent communication and team working skills

We offer:

- A full time position
- An interesting and challenging task in a research center that works on the future topics of health research
- A strongly cooperative and supportive international environment with state-of-the-art research facilities and equipment
- A high potential for the individual development of our employees
- Targeted personnel development
- Contract initially limited to two years
- Employment, payment and social benefits are determined by the Public Sector Collective Agreement (Tarifvertrag für den öffentlichen Dienst)

The DZNE is an equal opportunity employer. The DZNE is committed to employing disabled individuals and especially encourages them to apply.

Interested candidates should send their applications (CV, publication list, summary of research interests and names of 2 referees) as a single pdf document to: [Klaus.fabel\(at\)dzne.de](mailto:Klaus.fabel@dzne.de)