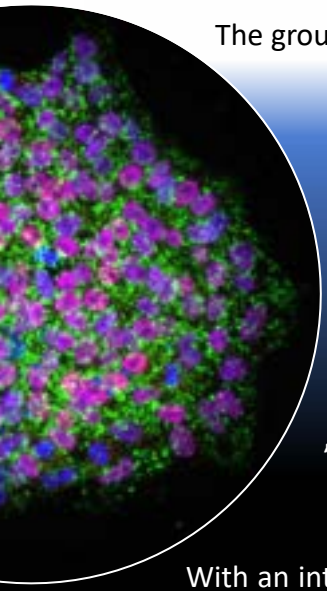
LMU KLINIKUM

Institute for Stroke and Dementia Research (ISD)

The **Institute for Stroke and Dementia Research** (https://www.isd-research.de/) is one of the most renowned centers in Germany for cutting-edge research and treatment of neurodegenerative and neurovascular diseases. In a new building constructed in 2015, international working groups are using state-of-the-art methods to investigate disease mechanisms and translate new scientific findings into treatment approaches for patients.



The group of **Prof. Dr. Dominik Paquet** (https://www.isd-research.de/paquetlab) is looking for a

Master student (m/w/d)

- or -

Student assistant (m/w/d)

to work on a project about

„Developing an automated screening platform for the application of stem-cell-derived brain tissue models in Alzheimer‘s disease research“

With an interdisciplinary and international team, we develop and apply human brain tissue models to investigate Alzheimer's disease. We use state-of-the-art molecular and cell biological methods, such as induced pluripotent stem cells, human brain tissue engineering and CRISPR/Cas9 genome editing.

We offer an interesting, meaningful and varied position in a young, innovative team with the opportunity to contribute your own experience and ideas to the success of our research. The workplace is located in an attractive environment in a modern, new research building at the Großhadern campus.

We are looking for a student with a computational and biology background to support the team in developing an automated platform for our human brain tissue models. Tasks include:

- Helping to set up and run automated protocols on our novel robotic cell culture system
- familiarizing with the robotic Python-based API
- setting up and trouble-shooting automation protocols in Python
- applying additional equipment, such as our 3D printer, to optimize automatic cell culture applications
- working with human brain tissue models from induced pluripotent stem cells
- testing and optimizing tissue clearing protocols to optimize readouts based on stained tissues

In addition to reliability, commitment, team spirit and good communication skills, the applicant should enjoy computational and laboratory tasks and be highly motivated. A structured and very careful way of working and very good knowledge of Python is required. Previous experience with cell culture techniques would be an advantage. A very good command of written and spoken English is essential, as the working group and the institute are international.

Disabled applicants will be given preference if they are otherwise equally qualified.

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