

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. 16 international working groups are using state-of-the-art methods to research disease mechanisms and translate new scientific findings into treatment approaches for patients.

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

### PhD student (m/f/d)

Our research involves the development of human brain tissue models to study the molecular mechanisms of Alzheimer's disease, Frontotemporal dementia, stroke and other related brain diseases and to develop therapeutic approaches. We use state-of-the-art molecular and cell biological methods, such as induced pluripotent stem cells, advanced molecular biology techniques, CRISPR/Cas9 genome editing, brain tissue engineering, scRNAseq, proteomics etc. We offer a highly international, versatile, extremely well equipped and productive work environment.

We have recently received funding by an international research organization for a highly interdisciplinary project in which we aim to apply our technologies to investigate alterations of the endolysosomal system in neurodegenerative diseases. The project will have a focus on genome engineering, differentiation of iPSCs into brain cells, such as neurons and microglia, and studying their crosstalk and disease-relevant alterations by microscopy and different omics techniques. It will be embedded in the highly collaborative and stimulating environment of the PaquetLab, ISD, and the SyNergy Cluster of Excellence.

We are looking for a highly motivated individual with the following skills:

- international scientific working experience
- experience with cell culture, preferentially stem cell culture, molecular biology and biochemistry techniques
- excellent English skills in speaking, writing about and presenting scientific data
- interest in working in a highly interdisciplinary team of friendly scientists

Admission to the GSN PhD or fast-track program will be required, and a start date soon in 2025 is desired.

### Join us!

Dominik Paquet, Professor of Neurobiology  
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Smallprint:  
Compensation according to TV-L. Vaccination against SARS-CoV-2 required. Severely disabled applicants will be given preference if their qualifications are otherwise essentially equal.

