

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

Postdoc (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 (iPSCs), 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 received funding by an international research organization for a very interdisciplinary and collaborative project to develop a human iPSC model of the blood brain barrier and apply it to study neurovascular diseases, with a focus on Small vessel disease (SVD). The project will focus on CRISPR genome engineering of SVD-relevant mutations, differentiation of iPSCs into neurovascular cells, microfluidic 3D vascular tissue engineering, and identifying disease-relevant alterations by microscopy and omics techniques. It will be embedded in the highly collaborative and stimulating environment of the PaquetLab, ISD, SyNergy Cluster of Excellence, and our international collaboration network.

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

- extensive international scientific working experience in vascular biology or a closely related research field (required)
- experience in molecular biology, biochemistry and/or omics techniques; cell culture experience is a plus
- excellent English skills in speaking, writing about and presenting scientific data
- interest in working in collaborative network of friendly scientists around the world

A start date soon in 2025 is desired.

Join us!

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