# LMU KLINIKUM

# Post doc vascular biology (m/f/d)
## Institut für Schlaganfall- und Demenzforschung

The Hospital of the University of Munich, Germany, is one of the largest and most competitive university hospitals in Germany and Europe. 48 specialized hospitals, departments and institutions harbouring excellent research and education provide patient care at the highest medical level with around 11.000 employees.

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| WORKPLACE | Campus Großhadern | DATE OF ENTRY | 01.05.2025 |
| WORKING HOURS | Full time | APPLICATION DEADLINE | 01.05.2025 |
| INSTITUTION | Institut für Schlaganfall- und Demenzforschung | REFERENCE NUMBER | 2025-K-0062 |
| DEPARTMENT | AG Dichgans | | |

The Institute for Stroke and Dementia Research (ISD) offers a Post doc position Vascular Biology. The ISD is a biomedical research institute primarily financed by foundation funds that bridges the traditional gaps between basic science and academic medicine (www.isd-muc.de).

The project, conducted in the laboratory of Martin Dichgans https://www.isd-research.de/dichgans-lab, exploits the mechanisms linking mutations in novel risk genes for cerebrovascular disease (Nature 2022, Nat Genet 2018) to vascular dysfunction. Expanding on our analyses on other risk genes such as HTRA1 or HDAC9 (e.g. Nat Cardiovasc Res 2024; Nature Comm 2024; Immunity 2024), new mouse lines with informative phenotypes and novel experimental paradigms, we aim to uncover disease mechanisms and develop targeted therapeutic approaches. Techniques include state-of-the-art scRNAseq, and spatial transcriptomics, immunological and imaging methods, and high-resolution mass-spectrometry-based proteomics.

## Scope of work

- We are searching for an experienced postdoctoral researcher with a background in vascular biology.
- Functioning in a highly collaborative, interdisciplinary team, the postdoctoral researcher will investigate the mechanism driving cerebrovascular disease in new genetic mouse models with human relevance and complementary disease models including human iPSC-based models, and explore new pardigms and therapeutic strategies.
- Successful candidates will use a broad range of methods with ample expert support on cutting edge technologies including the above as well as tissue clearing combined with light-sheet microscopy and electron microscopy (https://www.isd-research.de; https://www.synergy-munich.de/synergy).

## Our requirements

- We expect advanced knowledge in the concepts and techniques relevant to vascular biology, a high level of original thinking and motivation, scientific rigor, and the ability to work indepently.

## Our offer

- As a board member of the excellence cluster "Munich Cluster for Systems Neurology (SyNergy)" (www.synergy-munich.de), member of a collaborative research center on atherosclerosis (https://www.sfb1123.med.uni-muenchen.de/about-us/index.html) and faculty member of the Graduate School of Systemic Neuroscience (www.gsn.uni-muenchen.de) we provide a highly collaborative and inspiring research environment.
- Our group is located in the brand-new Center for Stroke and Dementia Research building with access to cutting-edge technologies in immunology, molecular biology, vascular biology, and neuroscience.
- Remuneration is based on the Collective Agreement for the Public Sector of the Länder (TV-L) including all allowances customary in the public sector.

## Offers and services of the employer

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| Further education and training | Job ticket |
| Company pension scheme | Discounts |
| Childcare services | Staff accommodation (if available) |
| Mobile work (if suitable) | |

Frau Rott, Irina

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## Application format

Please use the Online-Form for your application

http://www.lmu-klinikum.de/e38eb5b7351333db

Disabled persons will be preferentially considered in case of equal qualification. Presentation costs cannot be refunded.

Please note that we cannot reimburse travel expenses incurred through interviews.

We ask you for your understanding that postal applications will not be returned, but will be destroyed in accordance with data protection regulations. The data usage information also applies to postal applications