LMU KLINIKUM

PhD Student in Cardiovascular Immunology – ERC, DZHK and DFG Funded (m/f/d)

Medizinische Klinik I (Kardiologie)

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 12.000 employees.

WORKPLACE	Campus Großhadern, Campus Innenstadt	DATE OF ENTRY	01.03.2027
WORKING HOURS	Part time	APPLICATION DEADLINE	31.01.2027
INSTITUTION	Medizinische Klinik I (Kardiologie)	REFERENCE NUMBER	2026-K-0442
DEPARTMENT	Labor, Kardiologie		

Scope of duties

This is a 65% part-time PhD position. We are seeking a highly motivated PhD students interested in cardiovascular immunology, multi-omics, advanced imaging, and disease models. Prior experience in these areas is not required. Our research focuses on myocardial infarction, thromboinflammation, atherosclerosis, and sepsis (e.g. Immunity 2025, 2023; Nature Medicine 2024; Science Advances 2024; Nature Reviews Cardiology 2025). We study the innate immune system and its interactions with non-immune cells, including sympathetic nerve fibers, using reverse-translational approaches from human samples to in vitro and in vivo disease models. The PhD project will focus on one of these topics and include training in omics, imaging, and bioinformatic analyses within a highly interdisciplinary team of biologists, biochemists, veterinarians, physicians, and bioinformaticians.

Our requirements

We are looking for highly motivated and curious students with a strong interest in immunology, cardiovascular biology, inflammation, or translational biomedical research. Applicants should hold (or be close to completing) a Master's degree in biology, biochemistry, biomedical sciences, medicine, bioinformatics, biotechnology, veterinary sciences, or a related field.

Ideal candidates should demonstrate:

- Strong motivation for scientific research and enthusiasm for interdisciplinary teamwork
- Interest in innate immunity, cardiovascular disease, and/or systems biology
- Critical thinking skills and the ability to work independently
- Excellent communication skills in English (written and spoken)
- Basic understanding of molecular and cellular biology concepts
- Willingness to learn advanced experimental and computational approaches

Prior experience in areas such as immunology, omics technologies, bioinformatics, imaging, or animal models is advantageous but not required, as comprehensive training will be provided.

Our offer

- An exciting and innovative PhD project at the interface of cardiovascular biology, immunology, and translational medicine with strong funding lines (ERC, DZHK, DFG) and an integration into excellent collaborative research centers (TRR332, CRC1784)
- A highly interdisciplinary and collaborative research environment with expertise spanning immunology, omics, imaging, bioinformatics, and disease modeling
- Training in state-of-the-art technologies, including single-cell and spatial omics, advanced imaging, computational analysis, and in vivo/in vitro disease models
- Access to human patient material and clinically relevant reverse-translational research approaches
- Close supervision and mentorship within an international and supportive team of biologists, physicians, veterinarians, and computational scientists
- Opportunities to contribute to high-impact research and scientific publications
- Participation in international conferences, seminars, and scientific networking activities
- Strong support for scientific and professional career development
- A stimulating, inclusive, and dynamic working atmosphere

Offers and services of the employer

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

Mr. Dr. med. Pekayvaz, Kami Alexander

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Application format

Please use the Online-Form for your application

http://www.lmu-klinikum.de/9f2ff89886368ecd

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