



The Brocker lab at the Institute for Immunology, Biomedical Center, **Ludwig-Maximilians-Universität (LMU) Munich**, is currently recruiting one

PhD student (m/f/d) in biomedical research

Institution:	Institute of Immunology Faculty of Medicine Biomedical Center (BMC)
Remuneration group:	TV-L E13
Full-Time / Part-Time:	Part-time (65%)
Start date:	Earliest convenience, contract for 3 years
Application deadline:	31.01.2025

We are developing novel reagents for the therapeutic targeting of extracellular vesicles.

Using in-house developed reagents that can bind virtually all extracellular vesicles (EVs) *in vivo*, we aim to modulate immune responses by targeting specific molecules to naturally occurring EV for therapeutic purposes. We are seeking a highly skilled and motivated PhD student with a background in Biochemistry to further develop and optimize these reagents. Your tasks will include designing and cloning of new optimized PS-binding reagents, their expression in bacteria and mammalian cells, protein purification using different affinity chromatography approaches and size exclusion chromatography, *in vitro* and *in vivo* testing of these reagents using appropriate cell and mouse assays.

About us:

LMU Munich is one of Europe's leading research institutions. The Institute of Immunology is part of the Biomedical Center (BMC) of the LMU Faculty of Medicine. The research topics in the house focus on subjects such as lymphocyte interaction and activation, tolerance, autoimmunity, vaccine research, immunity to tumors and infections. <https://www.immunologie.med.uni-muenchen.de/index.html>

The BMC is located on the Martinsried Campus (one of the best scientific locations in Germany) and offers an ideal research infrastructure with close proximity to the LMU University Hospital, the Faculties of Chemistry and Pharmacy and Biology, the German Center for Neurodegenerative Diseases (DZNE-Munich), Helmholtz Center Munich, the Max Planck Institutes for Biochemistry and Biological Intelligence and the Innovation and Start-up Center Biotechnology (IZB). Off campus, Munich is one of the friendliest and liveliest cities in the world and offers a wide range of cultural and leisure activities all year round.

Your qualifications

- Master's degree (or equivalent) in life sciences, preferably Biochemistry,
- Highly motivated candidate who has already basic knowledge of Biochemistry and is open for new technologies,
- Basic knowledge of Immunology and immunological techniques are a plus,
- Ability to work independently and goal-oriented,
- Experience in protein production, protein isolation and protein modification, flow cytometry, cell culture, molecular biology and *in vivo* models,
- Excellent communication skills and fluency in English (spoken and written),
- Candidates are expected to work well in an interactive and cooperative scientific environment, display intellectual curiosity and strong commitment to research.

We offer

- An exciting project in an innovative and modern laboratory,

- Modern workplace with cutting-edge technology embedded in a stimulating scientific community at the Biomedical Center of the LMU on the HighTech-Campus Martinsried,
- Excellent training and support in a motivated, international team,
- Dynamic young teams within the institute with many collaborative projects,
- Participation of the PhD candidate in scientific conferences.
- LMU Gateway support in all matters relating to the move to Munich [for international PhD students],
- Numerous LMU employee benefits, e.g. discounted fitness and cultural offers, job public transport ticket, Jobbike as well as several canteens and excellent cafés on campus.

We welcome applications from all backgrounds. The promotion of diversity is an important strategic goal at our center. This is reflected in the [BMC Code of Conduct](#), which actively promotes diversity and equal opportunities. The LMU is committed to a family-oriented policy and an equal opportunity employer, specifically welcoming female scientists' applications. Severely disabled persons with similar qualifications will be given priority.

Please submit your application (motivation letter including your CV, certificates and contact details of two references) as a single PDF file to sekretariat.immunologie@med.uni-muenchen.de.

Application deadline is January 31, 2025.

For enquiries or further questions please contact PD Dr. Jan Kranich jan.kranich@med.uni-muenchen.de.