LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN

BIOMEDICAL CENTER MUNICH
BIOMEDIZINISCHES CENTRUM MÜNCHEN

LMU Munich is one of Europe's leading research institutions. Scientists from all over the world encounter excellent conditions for their work - in their own research field and in interdisciplinary networks alike. The BMC of LMU Munich is located on the Martinsried Campus (one of the best scientific locations in Germany) and offers an ideal research infrastructure.
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.

The **Biomedical Center (BMC)** of the **LMU Munich** offers a

PhD position (m/f/d)
in Immunology/Dendritic cell Biology

within the **Schraml Lab** at the *Institute for Immunology*

The Schraml Lab is an international team of scientists with a passion for dendritic cells, immune development and neonatal immune homeostasis. We are enthusiastic about single cell technologies and understanding cell fate decisions.

Early immune balance is essential for survival and the establishment of life-long immune homeostasis. Tissue microenvironments shape dendritic cell fate and function but in early life tissues are still developing. So, how does the interplay between developing tissue cells and dendritic cells influence dendritic cell functions? And if so, how does this shape immune development?
We aim to define how the developing tissue stroma contributes to shaping dendritic cell function and creating immune balance. The project will employ transgenic mouse models to visualize and genetically manipulate stromal cells and dendritic cells. By combining innovative single cell technologies (transcriptomics and flow cytometry), high-end microscopy and functional analyses of dendritic cells in vitro and in vivo the project aims to define how the interaction of stromal cells and dendritic cells shapes immunity. More information about our research interests: https://www.schraml-lab.de/

In this full-time PhD position you will be responsible for

- Exploring dendritic cell and stromal cell heterogeneity by high-dimensional flow cytometry and microscopy.
- Employing single cell transcriptomics, including computational analysis and data integration.
- Study the biological function of dendritic cells using in vitro and in vivo models.

Who you are

- You share our enthusiasm for innate immunity and immune development.
- You have completed or are about to complete a Master's degree in immunology, molecular biology, biomedicine, or the like.
- Excellent communication and interpersonal skills are among your strengths. Fluency in English is essential.
- You enjoy working with colleagues from diverse scientific and cultural backgrounds and are willing to learn continuously.
- Experience with multiparameter flow cytometry and/or microscopy is a plus.
- Experience with stromal cells or single cell transcriptomics is a plus.

We offer

- An enthusiastic international team in a dynamic research environment.
- Challenging and diverse tasks associated with a high degree of responsibility.
- Excellent infrastructure and core facilities.
- A fully-funded position, salary conforms to TV-L E13, 65%, End-of-year bonus.
- Embedding in a structured graduate program committed to supporting doctoral candidates in their research goals, in good scientific practice, and achieving optimal qualifications for future careers.
- You will be part of a culturally diverse, inclusive, and highly motivated research team in a leading scientific environment that shares these values.
- Participation in research consortia (please check out TRR359) and attendance of national and international conferences.
- Many opportunities to help shape our BMC initiatives (e.g. BMC Green Lab, Public Outreach and BMC working group diversity and inclusion).
- Free parking and good public transportation connections.

- Compatibility of family and science (e.g. parent room and kindergarten on campus, school holiday and emergency child care).
- 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.

Enquiries and applications directly to Dr. Barbara Schraml (barbara.schraml@bmc.med.lmu.de).
We look forward to receiving your complete application as a single PDF file, including the following requirements:

1. Curriculum Vitae (max. 2 pages, written in English).
2. Short statement of your general research interests (~200 words)
3. What do you find interesting about our research? And why you choose to apply for this position? (~200 words)
4. Contact details from at least two referees and how they interacted with you (one referee should be a direct supervisor, working with you for at least 6 months).

Please send your full application as a single PDF document (max. 2 MB) to **barbara.schraml@bmc.med.lmu.de**

We welcome applications from all backgrounds. The promotion of diversity is an important strategic goal at BMC. This is reflected in the BMC Code of Conduct, which actively promotes diversity and equal opportunities.
People with disabilities who are equally as qualified as other applicants will receive preferential treatment.

Important dates
The application call closes on **30th January 2025**.
Interviews with pre-selected candidates will take place in February 2025.
The research project may start anytime between April and July 2025.

The institution
LMU researchers work at the highest level on the great questions affecting people, society, culture, the environment and technology — supported by experts in administration, IT and tech. Become part of LMU Munich!
In the course of your application for an open position at Ludwig-Maximilians-Universität (LMU) München, you will be required to submit personal information. Please be sure to refer to our LMU Privacy Policy. By submitting your application, you confirm that you have read and understood our data protection guidelines and privacy policy and that you agree to your data being processed in accordance with the selection process.