

The Würzburg Institute of Systems Immunology
at the University of Würzburg / Max Planck Research Group
invites applications for

Postdoc Positions in Systems Immunology (f/m/d)

**ERC-funded projects on the function of innate lymphocytes and T cells
and interactions with myeloid and nonhematopoietic tissue cells**

The Institute of Systems Immunology in Würzburg (WüSI) and specifically the Gasteiger and Kastenmüller labs offer two open Postdoc positions. We are interested in cellular Immunology and focus on cell-cell interactions, cellular localization and migration between and within tissues during development, homeostasis, infection and immunotherapy. We analyse single cells from a transcriptional (scRNAseq) to a protein level (spectral flow cytometry), determine their localization (histocytometry, spatial transcriptomics) and tissue context as well as their dynamic migratory behavior. Our aim is to integrate this information into a systematic view of biological processes such as infection and cancer. We have developed several new mouse models to target specific cellular subsets and are engaged in multiple collaborations with other Max-Planck Research teams. Some of the open projects are based on our recent publications on tissue-resident cells (Zeis et al., Immunity 2020) and transcriptional regulation of CD8 T cell memory (Ataide et al., Nat Immunol 2020).

We offer:

- The opportunity to work on a fascinating scientific topic in an international research team
- Continuous scientific mentoring and academic training with the aim for an academic career, including the opportunity to supervise students and to develop an independent research profile
- Cutting edge technology (scRNA seq, spatial transcriptomics, intravital microscopy) in a vibrant, competitive but highly collaborative and supportive scientific environment

Requirements:

- PhD in life science
- Sound knowledge and strong interest in immunology, cell biology or biochemistry
- Experience with conditional knock out mice and animal handling
- Fluent speaking and writing skills in English (German is not required)
- Motivation, reliability and dedication to work in an academic research lab are a must

Applicants with either of the following qualifications are preferred:

- Experience with multi-colour flow cytometry
- Hands-on knowledge of experimental mouse models
- Immune cell isolation and in vitro culture methods
- Experience with molecular and biochemical standard lab methods
- Experience with (single-cell) RNA-sequencing analysis and bioinformatics
- Experience with imaging approaches

For further information about the research areas of the Gasteiger and Kastenmüller labs please visit our website: <https://www.med.uni-wuerzburg.de/en/systemimmunologie>. Full applications or further questions should be sent via email to systemimmunologie@uni-wuerzburg.de in a single PDF file. The application must include a motivation letter with a brief description of past scientific achievements and academic goals (2 pages max.), a recent CV (with publication record) and at least two independent references (with full address, email and telephone number).

The University of Würzburg aims to increase the number of women in science. Therefore, women are especially encouraged to apply for these positions. Physically handicapped persons will be preferred in case they are equally qualified. Salary and benefits are according to the public service positions in Germany (TV-L).