

The Max Plank Research Group for Systems Immunology at the
University of Würzburg invites applications for

PhD Position in Molecular Immunology

The newly founded research group of Dr. Martin Vaeth at the Institute for Systems Immunology investigates the control of T cell function and other immune cells by calcium signaling (*Vaeth et al. 2016 Immunity, Vaeth et al. Nat. Comms 2017, Vaeth et al. JI 2015*), transcriptional regulation (*Vaeth et al. JEM 2014, Vaeth et al. PNAS 2012*) and metabolic reprogramming (*Vaeth et al Immunity 2017*). We apply a wide range of state-of-the-art molecular and cellular methods and complement our research with preclinical animal models. We collaborate closely with Drs. Kastenmüller and Gasteiger at our institute providing a vibrant scientific environment. The research project(s) aims to characterize the regulation and functional relevance of the glycolytic and mitochondrial metabolism in different T cell subsets and innate lymphoid cells in vitro and in vivo using infection and tumor settings and mouse models of autoimmunity.

We offer:

- The opportunity to work on a fascinating scientific topic in an international research team
- Continuous scientific mentoring and academic training
- Cutting edge technology and methods in a vibrant scientific environment
- Training in the Graduate School of Life Sciences at the University of Würzburg
- Salary and benefits are according to the public service positions in Germany (known as TV-L)

Requirements:

- Excellent Master's degree in life sciences (or equivalent)
- Sound knowledge and strong interest in immunology and cell biology
- Experience with conditional knock out mice and animal handling
- Fluent speaking and writing skills in English (German is not a must)
- Motivation, reliability and dedication to work in an academic research lab are a must

Applicants with the following qualifications are preferred:

- Experience with multi-color flow cytometry
- Hands-on knowledge of mouse models of autoimmunity and infection
- 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

For details see <https://www.med.uni-wuerzburg.de/systemimmunologie/forschung/> or contact Dr. Martin Vaeth directly via martin.vaeth1@uni-wuerzburg.de. Full applications with code No. 2018/SI 06 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, if applicable) and at least two independent references (with full address, email and telephone number).

The University of Würzburg and the Max Planck Society aims to increase the number of women in science. Therefore, women are especially encouraged to apply for this position. Physically handicapped persons will be preferred in case they are equally qualified.