1 PhD position (36 months, E13 TVöD, 65%) at the Institute of Clinical Microbiology, Immunology and Hygiene, Research Group of Prof. C. Bogdan, FAU Erlangen-Nürnberg

Within the research program of the DFG-funded Research Training Group (RTG) 2740 “ImmunoMicroTope”, the research group of Prof. Christian Bogdan is looking for a PhD student for the project B2: “Characterization and integrative bioinformatic modeling of metabolic and micromilieu factors promoting survival or control of Leishmania parasites.”

*L. major* is a protozoan parasite that causes chronic, but ultimately healing skin lesions (LCL). Parasite and disease control require a Th1 immune response, the production of nitric oxide (NO) by type 2 NO synthase (NOS2) and the generation of reactive oxygen species (ROS) by NOX2. The overall goal of the project is to unravel the impact of ROS and NO on the metabolome of host cells and to define microenvironmental factors that facilitate parasite persistence or control. In addition, the hypothesis will be tested that micro milieu factors regulate the ability of *Leishmania* to secrete exosomes, which contain virulence factors and immunomodulatory molecules.

For further information please visit: [www.immunomicrotope.de](http://www.immunomicrotope.de)

We expect:
- A degree in M.Sc. in immunology, microbiology, cell and molecular biology, biochemistry, or in molecular medicine
- Enthusiasm for experimental *in vitro* and *in vivo* research, self-reliance, ability to work in a team, excellent skills of the English language, and an intrinsic motivation for the specific training program of the RTG 2740

We offer:
- Participation in the 3-year training program of the RTG 2740, which combines profound, internationally oriented scientific education with an early exposure to important aspects of translational research
- Leading role in the experimental work of the respective research project
- A stimulating, collaborative, and international research environment formed by the Medical Immunology Campus Erlangen of FAU, various collaborative research consortia, and the Max-Planck-Zentrum für Physik und Medizin
- Excellent working conditions
- Continuous supervision and advice by your scientific mentors, including two scientists from outside your group
- Participation in national and international workshops, symposia and conferences
- International laboratory exchange

Further information: [www.immunomicrotope.de](http://www.immunomicrotope.de)

Contact: Prof. Dr. Christian Bogdan (Spokesman RTG 2740), [christian.bogdan@uk-erlangen.de](mailto:christian.bogdan@uk-erlangen.de), or Dr. Ilka Knippertz (program coordinator), [ilka.knippertz@uk-erlangen.de](mailto:ilka.knippertz@uk-erlangen.de)

The **deadline for application is November 21th, 2021**

**Start of the program is January 1st, 2022**