We are searching for a PhD candidate in the laboratory of Translational Immunology of Gerhard Krönke at the Department Medicine 3, Rheumatology and Immunology, University hospital Erlangen, Germany.

Our laboratory is focused on the immune-pathogenesis of autoimmune diseases (eg. rheumatoid arthritis). We have a strong interest in understanding the factors and molecular mechanisms, which promote transition from immune tolerance to immune diseases. In this context, we want to understand the detailed interactions between specific immune cells (e.g. macrophages, B cells and T cells) under healthy conditions as well as in the course of autoimmune diseases.


The candidate:

We seek a highly motivated and competitive candidate who is interested to perform comprehensive and in-depth spatiotemporal analyses of autoimmune responses using innovative technologies incl. single cell analyses (scRNAseq and scATACseq). The project focuses mainly on human immunology and has access to large cohorts of rheumatoid arthritis patients/healthy controls as well as modern facilities at the campus of the University of Erlangen. The project will combine immunological methods and system biology approaches to unravel the pathogenesis of autoimmune diseases. The ideal candidate has a background in immunology and/or molecular biology as well as bioinformatics and basic knowledge in the programming language „R“. Experience with analyzing single cell or ATAC sequencing data would be a plus.

Qualification requirements:

- Master’s degree in biology, life sciences, bioinformatics or computer sciences
- Interest in programming languages such as R
- Experience with molecular biology methods and flow cytometry
- Fluent knowledge of English
- Theoretical knowledge of immunology and autoimmunity is desirable
- Enthusiasm for translational research bridging basic immunology and human disease
- Willingness to work in a team environment and to collaborate with other people

We offer:

We offer an inspiring, dynamic and interdisciplinary research environment with state-of-the-art research facilities and comprehensive support. The work programme of this project includes the application of advanced techniques that ensure a high level of scientific education. We care about qualified training and support with the new challenge.

- Health promotion offered by the university hospital Erlangen
- All civil service benefits incl. supplementary provision of the Federal and State Pension Institution (VBL)
- Participation in structural training and mentoring programmes (Life@FAU, IZKF graduate school)
- Intended classification is according to TV-L, E13 65%
- The position is fixed-termed for 30 months with the possibility for extension.

- Starting date: 01.05.2020

- Application deadline: 31.03.2020

**How to apply:**

- Cover letter, CV (education, positions and academic work), list of reference persons with contact details as PDF

Please send the application with attachments by Email to: gerhard.kroenke@uk-erlangen.de

For further information, please contact Prof. Gerhard Krönke.