

PhD candidate position – Tübingen, Germany

I'm looking for a PhD candidate interested in multidisciplinary research, with background in Immunology or Cell Biology, Developmental Biology, interest in Systems Biology.

The aim of this DFG-funded PhD position is to study molecular and cellular mechanisms of T-cell trafficking during development. Recently, we have established a novel model system that enables the migratory behavior of all developing T-cells (thymocytes) to be studied simultaneously in a non-invasive and quantitative manner using in vivo imaging of the transgenic fish. This multidisciplinary study, encompassing Immunology, Cell Biology and Systems Biology, will implement fluorescent-based reporters to elucidate core subcellular processes (e.g. protein activity and cytoskeletal machinery) in all thymocytes at high spatial and temporal resolution. In particular, this project will focus on chemokine and chemokine receptor dynamics. High-content imaging data from various conditions and following experimental manipulations will be then used to develop computational models of cell dynamics during T-cell development. In addition, the candidate will work on molecular mechanisms regulating post-translational modifications of chemokine receptors in leukemic T-cells.

The laboratory of Translational Oncology in the Department of Oncology, Hematology, Immunology, Rheumatology and Pulmology, Medical Hospital, Tübingen University offers an excellent scientific environment for conducting multidisciplinary research. The position is to be filled by 1 March 2018 or as soon as possible thereafter and is limited for a two years period (65 % in part time).

To apply, please email your letter of motivation, detailed CV, and names of two references to Dr. Baubak Bajoghli (Baubak.Bajoghli@med.uni-tuebingen.de).