Master of Science Thesis Position

for 9-12 months

in the **laboratory of Prof. Dr. Burkhard Becher**, Institute of Experimental Immunology, University Zurich

Supervisor: Dr. med. Stefanie Kreutmair (full-time researcher)

Research Topic:

Immune profiling of CAR T and immune cells in lymphoma patients

Chimeric antigen receptor T (CAR T) cells are T cells that have been genetically engineered to produce an artificial T cell receptor for use in immunotherapy. We use novel cutting-edge technologies, such as single-cell spectral flow cytometry and algorithm-guided analysis to gain fundamental insights into the immune system and its role in CAR T treated lymphoma patients. The prospective candidate will have the opportunity to investigate the landscape and crosstalk of immune cells and CAR T cells, which is clinically highly relevant and urgently needed to improve the patients` outcomes.

Aims:

- Characterize the immune landscape in the blood of CAR T treated lymphoma patients
- Identify stratifying biomarker for a) response b) toxicity c) expansion/ persistence of CAR T cells

We offer:

- Translational research project linking basic immunological and clinical research
- A highly dynamic young and international team in a thriving research environment in the Institute of Experimental Immunology at the University Zurich
- Cutting-edge equipment (Spectral flow cytometer etc.)
- Weekly group meetings, journal flow, seminars

Requirements:

- Genuine interest in immunological research
- High motivation and open to new challenges
- Experience in flow cytometry (FlowJo) and programming skills (R studio) are a plus

Applications:

Complete applications in English should include a short motivation letter and CV containing a brief statement of research experiences.

Please send your application to:

applications_becher@immunology.uzh.ch