

## Master of Science Thesis Position

for **9-12 months** (start: flexible) in the **laboratory of Dr. Stefanie Kreutmair/ Prof. Dr. Burkhard Becher**, Institute of Experimental Immunology, University Zurich

### Research Topics:

#### 1. **First-in-human WT1 recombinant protein vaccination in patients with Acute Myeloid Leukemia (30% wet lab, 70% dry lab)**

We have a **unique opportunity** as we have access to a generated dataset and patient samples collected within a **real phase I/II clinical trial**, which has been initiated to analyze the treatment effect and toxicity of a first-in-human vaccination strategy based on WT1 recombinant protein in elderly AML patients. Preliminary analysis points to clinical and immunological efficacy together with an acceptable safety profile. **The prospective candidate** will work with real clinical trial data and I) evaluate toxicity and clinical activity induced by the vaccination (with additional statistical support) and II) investigate the humoral and antigen-specific/unspecific cellular immune response in vaccinated AML patients using clinical trial datasets, in vitro assays and high-parametric single-cell cytometry. **This project offers the unique potential to work with a real clinical trial dataset and investigate an innovative immunotherapeutic strategy for future AML therapy.**

### We offer:

- Translational research projects 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, linked to the University Hospital Zurich
- Cutting-edge equipment (Spectral flow cytometer etc.)
- Weekly group meetings, one to one meetings, journal flow, seminars etc

### Requirements:

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

### Applications:

Applications (English/ German) should include a CV containing a brief statement of research experiences (max 1 page).

Please send your application to: [kreutmair@immunology.uzh.ch](mailto:kreutmair@immunology.uzh.ch)