

## Master of Science Thesis Position

for **9-12 months** (start: September 2026) in the **laboratory of Prof. Dr. Burkhard Becher**, Institute of Experimental Immunology, University Zurich

### Research Topic:

**Understanding location, interaction partners and function of GM-CSF dependent adenophages in the pancreas (70% wet lab, 30% dry lab)**

Our main interest are tissue resident macrophages, which are unique cells that can fulfil organ specific roles in development, homeostasis, and inflammation. If you are interested in the innate immune system and want to learn more about the diversity of macrophages this project promises an exciting master thesis for you.

We have recently described Adenophages, a population of macrophages that reside in glands. Initially found in the salivary gland, adenophages are also located in the lacrimal gland, the mammary gland and the pancreas.

The pancreas is a fascinating organ that has exocrine as well as endocrine functions. In this project we aim to understand the location of **adenophages within the pancreas** as well as elucidate its role in supporting healthy pancreatic functions. For this we will use **cutting edge techniques** such as high-dimensional flow cytometry, immunofluorescent imaging and computational analysis with R.

### Aims:

- Characterizing the location of adenophages within the pancreas
- Understanding the interaction partners of adenophages in the pancreas
- Determining pancreatic function in the presence or absence of adenophages

### We offer:

- Becoming part of an exciting research project
- Opportunity to acquire in-depth understanding of the mammalian immune system
- 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, one on one meetings, journal flow, seminars etc

### Requirements:

- Genuine interest in basic immunological research
- High motivation
- Willing to work with mouse tissue samples
- Experience with mouse work and R is 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: [tuzlak@immunology.uzh.ch](mailto:tuzlak@immunology.uzh.ch)