

Master student (f/m/d)

The research group of Professor Ulrich Kalinke at TWINCORE, Institute for Experimental and Clinical Infection Research, is seeking highly motivated and qualified Master's students to join ongoing research projects in the field of single-cell RNA-Sequencing and infection immunology.

Research Projects:

We are currently offering two research projects:

Project 1: Viral infections and Parkinson's Disease

This project explores how viral infections may contribute to neuroinflammatory processes relevant to Parkinson's disease. Using single-cell transcriptomics, students will analyze immune cell profiles and molecular pathways linked to neurodegeneration.

Project 2: T-cell responses to human cytomegalovirus (HCMV)

This project focuses on profiling of virus-specific T-cell responses during HCMV infection. By combining single-cell RNA sequencing with T-cell receptor (TCR) analysis, we aim to explore immune cell heterogeneity, activation status and clonal dynamics.

Requirements

- Currently enrolled in a Master's program in Immunology, Virology, Molecular Biology, Biotechnology, Bioinformatics or a related field
- Experience in analyzing large single-cell RNA-sequencing datasets
- Strong expertise in bioinformatics tools and programming languages (e.g. R, Python)
- Good communication and teamwork skills
- Interest in immunology, virology, and/or neurodegenerative diseases research

What We Offer

- A challenging and interesting research project
- Hands-on experience with advanced molecular and computational techniques
- A supportive and collaborative research environment
- Close supervision with regular feedback from team members
- The opportunity to share research findings during internal group meetings

Application

If you are interested in joining our team, please submit your application, including a short motivation letter, your CV and academic transcripts to inken.waltl@twincore.de. The intended starting date for the position is early September 2025; please indicate your availability in your application.

We look forward to receiving your application.