

FELIX ROMER

Molecular cell biologist ~ Data Scientist

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SUMMARY

I recently graduated from the Master's program *Molecular Cell Biology and Immunology* in Tübingen, Germany. My main interests lie in cell organization and its mechanics, advanced cell culture systems, and quantitative live-cell microscopy. With an interdisciplinary and data-driven approach, I aim to better understand fundamental cellular processes to shape the future of scientific research.

SKILLS

Languages:  German - *native*
 English - *fluent* | C1
 French - *basic* | B1

Programming: Python - *certified Data Scientist*
Matlab - *Intermediate*
Latex - *Intermediate*
Java - *Intermediate*
R - *Intermediate*

EDUCATION

10/22 - 06/25 **M.Sc. Molecular cell biology and Immunology** **University of Tübingen**
Thesis: Heterotypic Interactions Between Endothelial Cells and (Infected) Macrophages: Characterisation of Endothelial Cell Shape Alterations, Organisation, and Macrophage Adhesion
Grade: 1.03, Top 10 %

09/18 - 08/22 **B.Sc. Biological chemistry** **University of applied sciences (UAS) Mannheim**
Thesis: Production and validation of a monoclonal mutation-specific antibody against BRAF V600K
Grade: 1.4

WORK EXPERIENCE

10/24 - 06/25 **Master thesis and research position** **University Tübingen, CMFI | WG Bastounis**
Investigation of interactions between endothelial cells and (infected) macrophages and the characterisation of endothelial cell shape alterations, organisation, and macrophage adhesion in a vessel-on-chip system. *Manuscript in review process* - [more].

02/24 - 04/24 **Erasmus internship** **University Copenhagen, Globe Institute | WG Andersen**
Conducted research focused on the interplay between *Helicobacter pylori* and host-stomach cells using gland-derived organoids. *Manuscript in review process* - [more].

10/23 - 12/23 **Research internship** **University Tübingen, CMFI | WG Bastounis**
Investigation of host-pathogen interactions in epithelial monolayers using an organotypic stretching device - [more].

10/22 - 05/23 **Student research assistant** **UAS Mannheim, | WG Sauer**
Automated analysis of confocal microscopic images of 3D cell cultures with Python to extract morphological and mechanical cell features. - [more]

04/21 - 03/22 **Internship and bachelor thesis** **DKFZ, Heidelberg | Core Facility Antibodies**
Planning and implementation of the production and validation of highly (e.g. mutation-) specific monoclonal antibodies. Therefore, a broad range of cell biological, molecular biological, immunological, and biochemical methods were used. - [more]

04/20 - 03/21 **Student Assistant | Tutor** **UAS Mannheim | WG Sauer**
Tutoring: Training in mathematical basics (Math 1 & Math 2)

LAB EXPERIENCE

 **Cell culture methods**
(Non-)adherent 2D & 3D (organoids, organ-on-chip) cell culture, Transfection, Infection assay, Live cell imaging, etc.

 **Immunological methods**
Immunofluorescence, Immunoblot, Immunohistology, etc.

 **Molecular biological methods**
Transformation, DNA/RNA Isolation, PCR, Plasmid-cloning, etc.

 **Analytical methods**
Quantitative microscopy, Traction force microscopy, HPLC, MS, etc.