Andrea **Lorenz**

Molecular Biologist

I am curious about molecular biology and motivated to acquire new skills on a daily basis. I am very organized and independent in my own work and also well versed in coordinating projects and events within larger groups. I am a very social person and enjoy cooperations with colleagues and creating a supportive and collaborative environment.

Contact

E-mail dea.lorenz@chello.at

Phone +43 660 6599884

Address Obkirchergasse 7/13
1190 Vienna, Austria

LinkedIn linkedin.com/in/andrealorenz

Education

2023
Master's Degree in Immunobiology
University of Vienna

2021
Bachelor's Degree in Microbiology and Genetics
University of Vienna

Laboratory skills

Flowcytometric analyses

Direct and indirect co-culture

Flexcell Tension System

Protein analysis
(Western Blot, Luminex)

RT-qPCR

Mammalian and bacterial cell cultures

Mouse work
(dissection, isolation of primary cells)

Data analysis and presentation
(GraphPad Prism, CytExpert, FlowJo, ImageJ, Excel)

Teaching skills

5 years as a Volleyball coach

Tutoring students

Languages

German (native)

English (fluent)

French (intermediate)

Spanish (beginner)

Experience

2024-present PhD Thesis — Competence Center for Periodontal Research
Medical University I Vienna, Austria

γδ T Lymphocytes in Healthy and Inflamed Human Periodontal Soft Tissues

Supervised by Christian Behm

I am investigating the role of **γδ T lymphocytes** and their subsets in healthy and **periodontitis** affected human periodontal ligament and gingiva *in vivo*. I am exploring the reciprocal interaction between **human mesenchymal stromal cells** and γδ T cells in oral tissues *in vitro*.

2022-23 Master's Thesis — University of Veterinary Medicine I Vienna, Austria

Basic Characterization of the Hematopoietic System in Type I Interferon Deficient Mice

Supervised by Mathias Müller

By comparing the **first interferon-α deficient mouse model** to type I interferon and IFN-β deficient mice, I attempted to identify functions specific for IFN-I subtypes in hematopoiesis under homeostatic conditions. The project focused on the abundance of specific **immune cell populations** and **protein analysis** of key players within the Jak/Stat pathway.

2020 Bachelor's Thesis — Technical University of Munich I Munich, Germany

Transcriptionally Enforced Differentiation of CD4+ T Helper Cell Subsets

Supervised by Dietmar Zehn

Using **ectopic expression of lineage determining transcription factors,** I started to establish stable and irreversible differentiation of **murine CD4+ T cells** into their respective subsets.

2019 Internship — Department of Pathology, Medical University I Vienna, Austria

LAMP-2 in Macro- and Chaperone Mediated Autophagy

Supervised by Renate Kain

This internship allowed me to gain **lab experience** very early in my studies and to refine my technical skills in **ELISA** and **Western Blot assays** within a project on ANCA associated autoimmune vasculitis.

2018 FEMtech-Internship — Agency for Health and Food Safety I Vienna, Austria

Microbiological Assessment of Home-made Joghurt regarding Food Safety

Supervised by Birgit Rossmann

Working in the department for meat and dairy products, I tested various methods to make **home-made joghurt** and evaluated them for applicability, flavor and **microbiological safety**.

2017 High School Graduation with Distinction — GRGXIX Vienna, Austria

Consequences of time-efficient treatment of sports injuries by the example of ACL ruptures in volleyball.

2016 FFG-Pupil Internship — GeoSphere Austria I Vienna, Austria

Storm Predictions by Usage of Historical Air Pressure Data

Supervised by Christoph Matulla

I discovered the world of **scientific thinking**, paving the way for my carreer in science, meanwhile learning about the intricacies of **climate research** and its **data sets**.