

Curriculum Vitae | Leonie Kleymann

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Address: Richterstraße 4, 04105 Leipzig

Date of Birth: April 8, 1994, Bremen

Educational Background

Master's Degree October 2020 – December 2023

M.Sc. Biology, University of Leipzig, GPA 1.4

Master's thesis at the Fraunhofer Institute for Immunology and Cell Therapy:

"Characterization of Spyro and Sparx – two phages infecting clinical *K. pneumoniae* strains and their evaluation as potential therapeutic phages."

Bachelor's Degree October 2015 – February 2020

B.Sc. Biology, Martin-Luther-University Halle-Wittenberg, GPA 2.3

Bachelor's thesis at Martin-Luther-University Halle-Wittenberg:

"Analysis of the Protein Interaction of ALP with Isoforms of Peroxiredoxin BAS1 in the Pathogen-Plant Interaction of Xanthomonas and *S. lycopersicum*."

IS Biology as Applied Science and Technology October 2014 – October 2015

University of Applied Sciences Bremen

School Education

International Youth Volunteer Service in Indonesia August 2013 – July 2014

Secondary School 2011 – 2013

Gymnasium Ritterhude

High School Exchange Year in the USA August 2010 – August 2011

Funded by the Parliamentary Partnership Program

Secondary School 2004 – 2010

Gymnasium Ritterhude

Professional Experience

Technical Assistant February 2024 – Present

Fraunhofer Institute for Immunology and Cell Therapy, Antimicrobial Biotechnology Group

Independent work in microbiological/biotechnological-medical research using various biological and biochemical methods in the laboratory and bioinformatic analyses.

Student Assistant September 2023 – March 2023

University Hospital Leipzig, Medical Microbiology

Work with pathogenic, multi-resistant bacterial cultures and mini fermenters.

Research Assistant July – December 2022

University of Leipzig, General and Applied Botany Group

Teaching assistant for the basic botanical microscopy course for first-semester biology teaching students.

Conducted own research on detecting nitrogen molecules through fluorescence in Arabidopsis mutants.

Scientific Assistant April – June 2022

University of Leipzig, Plant Physiology Group

Supervised plant physiology practical courses; conducted CRISPR/Cas9 experiments on *Chlamydomonas reinhardtii* to study a polyketide synthase gene, performed PCR, gel electrophoresis, and liquid algae culture.

Scientific Assistant September 2021 – June 2022

University of Leipzig, German Centre for Integrative Biodiversity Research (iDiv), Experimental Interaction Ecology Group

Studied soil aggregates, collected soil samples for the MyDiv experiment in Bad Lauchstädt, and performed microbial phospholipid fatty acid extraction (PFLA).

Scientific Assistant August – October 2021

University of Leipzig, Special Botany and Functional Biodiversity Group

Identified various plants and other parameters in forest and meadow ecosystems to support a doctoral thesis (fieldwork in Hainich National Park), and entered data in Excel.

Skills**Languages**

German (native), English (fluent spoken and written)

Laboratory Skills

Microbiological Methods: Working with pathogenic bacteria, culturing, antibiotic testing, working with bacteriophages and bacteria, and using mini fermenters.

Molecular Biological/Biochemical Methods: DNA isolation, gel electrophoresis, PCR, preparing competent cells (chemically and electrically competent), Golden Gate cloning, protein biochemistry, protein-protein interaction studies (GST pull-down, split-YFP, yeast two-hybrid), Coomassie staining, and Western blotting.

IT

Bioinformatics: Analysis of whole genome sequencing data using various bioinformatic tools from Illumina de novo assembly. Tools include Trim Galore, Spades, BMap, Bandage, NCBI Blast. Experience with Raspberry Pi and basic understanding of Python.

Volunteer Work

Chairwoman of the Supervisory Board: Solidarisch Wohnen Leipzig eG
Monthly meetings, oversight, and control body of the board of directors.

Leipzig, May 27, 2024