



Paul Kießling

Aachen
Aachen
Germany

Education

05/2022 – current

PhD Bioinformatics, Uniklinik RWTH Aachen

Single cell and spatial transcriptomics in heart and kidney disease

04/2019 – 3/2021

MSc Biosciences, University of Münster

A focus in Biochemistry and Cellular Biology. Courses:
Recombinant proteins: Expression, purification and characterization

Posttranslational modifications of proteins and their role in selected diseases

Microbial carbon metabolism

Biophysical methods of molecular biology, cell biology and physiology

Methods of functional proteomics

Computational approaches to gene and genome regulation

Thesis: “*Expression and Characterization of 11 Mutant Variants of Soluble Guanylyl Cyclase Linked to Human Diseases*”

Recombinant expression and of mutant enzymes in HEK cells
Comparison of enzyme activities in a HTRF assay
Identification of pharmaceutical compounds with potential efficacy for the treatment of cardiovascular diseases

Research conducted at Bayer AG / Pharma Research Centre Wuppertal

03/2015 – 03/2019

BSc Biotechnology, Mannheim University of Applied Sciences

A focus in Biochemistry, Microbiology, Genetic Engineering, Bioprocessing graduated with a GPA of 2.0 (good)

Thesis: “*Discovery of bispecific (VHH)₂ constructs against receptors IL18Ra and SIGIRR by phage display*” completed with a grade of 1.0 (very good)

Antibody discovery from a Llama phage library

Construction of bispecific VHH antibodies
Characterization of the generated constructs

Research conducted at UCB Slough R&D

08/2006 – 07/2014

Abitur (A-levels), Martin-Luther-Schule Marburg

Graduated with a GPA of 1.8 (good)
Majored in Chemistry and German

Work Experience

02/2017 – 07/2017

Internship Semester, UCB Pharma S.A. Slough, UK
Downstream Process Sciences

"An assessment of various affinity-chromatography resins for Fab purification"

Development of the primary monoclonal antibody capturing step
Automation of resin testing on a Tecan liquid handling system

02/2015 – 03/2015

Internship, UCB Pharma GmbH, Monheim, Germany
Analytical Laboratory

Characterization of pharmaceuticals
In vitro dissolution testing of drugs
Translation of international standard operating procedures (SOPs)

8/2014 – 12/2014

Internship, German Embassy School of Beijing, China

Intercultural communication
Supervision of Chemistry class and the soccer team
Support of IT and administration

Publications

Kiessling, Paul, Chapter 4 "Discovery methods of monoclonal antibodies." *Monoclonal Antibodies: History, Mechanism and Application*, edited by Assem el Baghdady, Euromed communications, 2022

Other Skills

Qualification as project manager according to the German gene technology act (§ 15 GenTSV)

Programming experience in Python and R, Linux

Driving license category B

Languages

German (native speaker), English (fluent), Spanish (basic),
French (basic)

P. Kießling

Paul Kießling 02.07.2022

