



# Paul Kießling

Biegenstraße 28  
35037 Marburg  
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)<sub>2</sub> 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

