

Claudia Mariani

Biotechnologist

About Me

I am a Biotechnology graduate currently completing a Master's in Chemical Biotechnology at the Technical University of Munich. This program has complemented my biological foundation with strong chemical and engineering knowledg. I have a strong passion for protein engineering and biopolymers.

Software skills

- OriginLab
- ChemDraw
- R and SPSS
- MNova
- Pymol
- Basics of Python
- MatLab

Education and experience

Master in Chemical Biotechnology 2023-2025
Technical University of Munich (TUM)

Chemical and engineered oriented Master program oriented on the conversion of raw materials to high value products with biological methods, such as ezyme engineering and biocatalysis, for a suistanable transition of the chemical industry.

Internship | TUM - Prof. Dr. Rubén D. Costa
"*Supramolecular fatty acid modificationof mGreenLantern for bio-HLED applications*"

- Sprectroscopy Techniques (NMR, spectrofluorometer, UV-VIS)
- Chemical synthesis

Master Thesis | TUM - Prof. Dr. Nicolas Plumeré
"*Optimizing a point of use biosensor for agricultural application*"

- Electrochemical Techniques
- Critical Thinking
- Data Analysis
- Problem Solving

Research Assistant | TUM - Prof. Dr. Hubert Röder 5/2024- 7/2025
Sustainable Business Economics

- Consulting
- Analysis of the market structure
- Material Flow Analysis

Bachelor in Biotechnology 2019-2023
Universitat de Barcelona (UB)

The Bachelor provided me a strong foundation of the biotechnological techniques and industry practices, with a deep focus on genetic engineering, molecular cloning, and both prokaryotic and eukaryotic cell culture.

Erasumus+ Blended Intensive Program (BIP)
CRISPR/Cas9

- Team Work
- Knock out/knock in genes
- PCR

Bachelor's Thesis | UB - Prof. Dr. Sergi Munné-Bosch
"*Influence of light and hormones of fruit regreening*"

- Colorimetry
- HPLC
- Data Analysis and Statistics

Publications

Post-harvest regreening: a species- and variety-dependent process triggered by phytohormones and light
Annals of Botany, 2025
Tania Mesa, Claudia Mariani, Sergi Munné-Bosch
https://doi.org/10.1093/aob/mcaf094