



EMAAN JAMIL

Biotechnologist

MSc in Medical and Pharmaceutical Biotechnology

CONTACTS

Via Milano 4, Erba (CO), 22036, Italia

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LANGUAGES

English	C1
Italian	C1
Urdu	C1
Hindi	C1
Punjabi	B2

SKILLS

Analytical Biochemistry: HPLC, TLC, protein assays, metabolite extraction.

Molecular Biology: DNA extraction, PCR, cloning, gel electrophoresis.

Cell Biology: Mammalian cell cultures; MTT and GFP assays.

Clinical Microbiology: Fungal and bacterial cultures, CARBA assays, antimicrobial resistance testing.

Microscopy: Optical and fluorescence microscopy; cell and spore counting.

Bioinformatics: BLAST, MSA, sequence analysis.

Transferable Skills:

Project management
Teamwork
Assay development
Experimental problem-solving
Scientific writing
Scientific poster design

PROFILE

Master's graduate in Medical and Pharmaceutical Biotechnology with hands-on experience in molecular biology, analytical biochemistry, microbiology, and biomedical research. Skilled in TLC, HPLC, PCR, fungal and bacterial cultures, cellular assays, and data interpretation. Experienced in international research environments, scientific conference presentations, and collaboration in multidisciplinary teams. Recipient of the Dompé Foundation Scholarship.

EDUCATION

Master's Degree in Medical and Pharmaceutical Biotechnology

University of Pavia, Italy

November 2022 – July 2025

Thesis: Developing a TLC-Based Assay for ergothioneine Screening in Fungal Strains and Valorizing Brewery Side-Streams.

(Erasmus+ at Maynooth University, Ireland)

Bachelor's Degree in Biotechnology

University of Insubria, Italy

September 2019 – October 2022

Thesis: Colonization and Spread of Multidrug-Resistant Microorganisms in Hospital Settings:

Two Years of Surveillance

(at Sant'Anna Hospital, Italy)

High School Diploma in Applied Sciences

Paolo Carcano, Como, Italy

2016–2019

PROFESSIONAL EXPERIENCES

Research Internship – Erasmus Traineeship+

Maynooth University, Ireland

July 2024 – April 2025

- Screening of fungal strains for ergothioneine production using TLC and HPLC
- Development of a rapid iodine-based staining method
- Optimization of fungal growth and presentation of results at ECFG17, Dublin 2025

CERTIFICATIONS AND AWARDS

- Domp  Foundation Scholarship (2022 2025)
- Erasmus+ Traineeship Grant (2024 2025)
- Poster presentation at ECFG17, Dublino 2025

REFERENCES

Prof. Ozgur Bayram
Maynooth University
ozgur.bayram@mu.ie

Dr. Laurent Robert Chiarelli
Universit  di Pavia
laurentrobert.chiarelli@unipv.it

Clinical Microbiology Internship

Sant’Anna Hospital, Como, Italy July 2022 – September 2022

- Surveillance of antimicrobial resistance in Gram-positive and Gram-negative bacteria
- Performance of CARBA screening test

Hospital Pharmacy Internship

Valduce Hospital, Como, Italy April 2018

- Management of drug inventory and expiration control
- Support in the distribution of medicines to hospital

Project Internship

Easy Ways (Mobility Startup), Como, Italy April 2017

- Design and presentation of an app for accessibility for wheelchair users
- Work on project management, communication, and service design