

MARGHERITA BRUNI

PROFESSIONAL SUMMARY

Scientist with proven track record in conducting innovative research and contributing to scientific advancements, especially in the field of enzymology and protein sciences. Known for collaborative teamwork and achieving results in dynamic environments. Skilled in experimental design and data interpretation, ensuring high standards and reliability in all projects.

WORK HISTORY

Project Manager EU Projects, 11/2023 to Current

Human.technology Styria GmbH - Graz, Austria

- Successfully managed 4 projects simultaneously by prioritizing tasks according to urgency, resource availability, and alignment with organizational goals.
- Planned, designed, and scheduled phases for large projects.
- Gained familiarity with EU funding programs, particularly COSME, I3 Instrument and INTERREG
- Curated the official project reporting by writing technical and financial reports
- Participated to EU-wide events and to cluster networking events and conferences, including start-up pitching events
- Attended several workshops on Horizon Europe and EIC Accelerator and joined several trainings for innovation in health and biotech

Junior Scientist Biocatalysis, 11/2020 to 04/2023

Acib-Austrian Centre of Industrial Biotechnologies - Graz, Austria

- immobilized lactate oxidase on 6 different carrier presenting different type of chemistry
- characterized the derivate by oxytometer and spectrophotometer, and tested stability, leakage and mass transfer effect
- data regularly presented to industry partner
- initiated a new protocol for derivate positioning analysis with LC-MS
- work presented in 3 conferences

Technical Assistant Structural Biology, 10/2018 to 10/2020

IEO (European Institute of Oncology) - Milano, Italy

- developed a protocol for the co-expression of a protein complex in Baculovirus (GoldenBac) for structural analysis in CryoEM
- performed standard molecular biology techniques and assisted PhD students and other users using FPLC (Akta)

CONTACT

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WEBSITES, PORTFOLIOS, PROFILES

- <https://www.linkedin.com/in/mbruni93/>
- <https://www.linkedin.com/in/mbruni93/>
- [heyamarghe.com](https://www.heyamarghe.com)

PUBLICATIONS

Luley et al., Carrier-based immobilization of *Aerococcus viridans* L-lactate oxidase, 2024 (10.1016/j.jbiotec.2024.01.011)

Bruni, et al. Persistence of Anti-SARS-CoV-2 Antibodies in Non-Hospitalized COVID-19 Convalescent Health Care Workers, 2020 (10.3390/jcm9103188)

Bruni and Robescu, et al. Immobilization of γ -Glutamyl Transpeptidase from Equine Kidney for the Synthesis of kokumi Compounds, 2019 (10.1002/cctc.201901464)

- produced common reagent for the whole research department

Research Fellow Biocatalysis, 12/2017 to 09/2018

University of Pavia - Pavia, Italy

- immobilized enzyme extracts on agarose beads by covalent and adsorption interaction
- biochemical characterization of the derivative by spectrophotometer, using DOE and achieving reusability
- developed and standardized immobilization protocols and quantified functionalization
- supported Master students for the technical part of their thesis
technical support to Master students, particularly with basic usage of HPLC

Internship Structural Biology, 12/2017 to 09/2018

University of Pavia - Pavia, Italy

- expressed and purified Monoamine Oxidase A wild type and mutants in *Pichia pastoris* for biochemical analysis on the spectrophotometer
- data presented with presentations and described in my Master thesis

EDUCATION

Master, Advanced Biotechnology

University of Pavia

GPA: 110/110 cum laude

Bachelor, Biomolecular Studies

University of Pavia

Diploma, Languages

Galileo Galilei High School

LANGUAGES

Italian: Native language

English:  C1

Advanced

German:  B2

Upper intermediate

Spanish:  B2

Upper intermediate

SKILLS

- Protein purification techniques
- Enzyme technologies
- Critical Thinking
- Time Management
- Communication
- Problem solving mindset
- Attention to the details
- Ability to work independently
- Team player
- Decision maker
- Creativity

SOFTWARE AND TOOLS

- Microsoft Office (Word, Excel, PowerPoint)
- Databases for Life Sciences
- Python programming
- BLAST
- PyMol
- Snapgene
- Canvas
- Affinity designer
- Teams for Project Management

CERTIFICATIONS

- 3rd Hands-on Computational Enzyme Design course - Loschmidt Laboratories, Masaryk Univ.
- Introduction to Computer Science and Programming Using Python - MIT on edx (on-going)