

DAVIDE BARBARO

LANGUAGE

Italian

Native proficiency

English

Intermediate proficiency B2

EDUCATION

Master in molecular biology | University of Ferrara

Ongoing

Bachelor's degree in biotechnology | University of Perugia

Oct 2016 – July 2022

- Grade 102/110
- One year of experimental thesis work, at Pharmaceutical Sciences Department (DSF) of UniPG, in metagenomic analysis of microbial communities in wastewater treatment;
- Erasmus+ experience Oct 2020 – Mar 2021 (30 ECTS)

Classical high school diploma | Annibale Mariotti Perugia

Sept 2009 – Jul 2015

PUBLICATIONS

Serventi, L., Flores, G. A., Cusumano, G., Barbaro, D., Tirillini, B., Venanzoni, R., ... & Ferrante, C. (2023). Comparative Investigation of Antimicrobial and Antioxidant Effects of the Extracts from the Inflorescences and Leaves of the Cannabis sativa L. cv. strawberry. *Antioxidants*, 12(2), 219.

EXPERIENCE AND SKILLS

- Technical skills at microbiology bench, at bunsen burner or under laminar flow hood: media preparation for bacterial and yeast cultures, microbial isolation techniques, serial dilutions, viable count on agar plates, microbial growth in multiwell plates.
- Technical skills at molecular biology bench: DNA extraction (work experience with "MPBIO KIT: FastDNA™ Spin Kit for Soil Typical Work Flow"), PCR amplification (work experience with: "TaKaRa Taq™" polymerase kit), DNA electrophoresis and gel preparation, and general knowledge of sequencing procedures using "Oxford Nanopore Technologies – MinION™";
- General knowledge of using pipelines for sequence analysis in "Conda environment", basic skills in "R" software (packages: *Phyloseq*, *Microeco* e *Microbiome*), Excel environment and data analysis;
- Good knowledge of molecular biology, structural genomics, and epigenetics concepts (grade: 30/30);
- Good cooperation and socialization skills in teamwork and strong desire for knowledge.