



Martina Florian

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Birth Date: 28/12/1996

EDUCATION

- 2023 – Present **PhD in Biological Sciences and Applied Biotechnologies** – University of Turin
Supervisor: Silvia Perotto
- 2018-2021 **Master's degree in Plant Biotechnology** – University of Turin
Thesis: Isolation and characterization of endophytes from nodules and roots of *Vicia villosa*
Thesis supervisor: Dr. Roberta Gorra
Final grade: 110/110 with honors
- 2015-2018 **Bachelor's degree in Biological Sciences** – University of Turin
Thesis: Rice adaptative responses to drought stress and strategies to improve its tolerance
Thesis supervisor: Prof. Cinzia Margherita Berteà
Final grade: 108/110

RESEARCH EXPERIENCE

- May 2022 – August 2023 **Visiting Scholar Intern** – University of New Hampshire – *Supervisor: Dr. Anissa Poleatewich*
Projects: Evaluation of disease suppression ability of wood substrates on fungal root diseases of floriculture species for greenhouse production; Integration of natural products to enhance efficacy of fungicides for control of summer fruit rots and postharvest decay of apple and for suppression of gray mold of petunias; Evaluation of the efficacy of biopesticides for suppression of crown and root rot in peat-wood fiber substrate mixes.
- March 2021 – June 2021 **Internship** – University of Turin – *Supervisor: Prof. Davide Spadaro*
Projects: Effect of post-harvest treatments on apple microbiome, Monitoring and sampling of aerial microbiome in apple orchard, Management of post-harvest *Botrytis* rot on strawberries, Isolation of several plant pathogenic fungi
- February 2021 – March 2021 **Internship** – University of Turin – *Supervisor: Dr. Roberta Gorra*
Project: Microscopic and molecular analyses of radical symbiotic association

POSTER PRESENTATION AND CONFERENCE PROCEEDINGS

Mania I. and Florian M., Gorra R. (2021). Culturable diversity of root and nodule endophytes from *Vicia villosa* plants grown at different levels of phosphorus availability. In: Microbial Diversity 2021, Advances in Microbial Diversity, December 14-15, 2021 (accepted for poster presentation)

OTHER RELEVANT EXPERIENCES

- October 2020 – July 2021 **Digital communication: Part-time Collaboration with the University of Turin**
Distance learning support, interviews and video editing, organization of study groups, spread of information and events promotion

SKILLS

- Digital Skills** Microsoft Office (Word, Excel, Power Point), Basic statistical analysis in R scripting, Bioinformatic tools (e.g. Clustal, Velvet, BWA, Bowtie2)
- Soft skills** *Project management*: Led and managed a project in Dr. Poleatewich's Lab, handling all aspects of planning, execution, and evaluation of results. Regularly wrote reports on the experiments performed, covering the experimental setup, methods, results, and conclusions, in order to facilitate future replications.

Work ethic: Strong work ethic, characterized by attention to detail and a commitment to adhering to safety procedures and protocols in diverse laboratory environments. Adaptable, reliable, and a collaborative team player, easily integrated into any work environment.

Adaptability: through my experiences in various laboratories, I developed a remarkable ability to adapt to different working styles. Additionally, my relocation to the U.S. necessitated settling into an entirely new environment, which proved to be a valuable stimulus for personal and professional growth.

Lab skills

General microbiology skills – growth media preparation, culturing of bacteria and fungi, pipetting, microscopy, serial dilutions, plate count, sterile technique, *in vitro* assays to evaluate enzymatic activities

Plant pathology skills – preparation of fungal and bacterial inoculums, evaluation of root, fruit and leaf diseases, isolation from plant material and food, plant inoculations, fruit quality assessment, post-harvest fruit disease assessment

Greenhouse work – management of different plants in the greenhouse (propagation through cuttings, seeding, pruning, transplantation), preparation of wood fiber-based substrates

Molecular techniques – DNA and RNA extractions, PCR, DGGE fingerprinting, Sanger sequences processing, Western Blot

Languages

Italian: mother tongue

English: fluent

I authorize the processing of the personal data contained in my CV in compliance with art. 13 of D.Lgs. 196/2003 and art. 13 GDPR 679/16.