



ANDREA MANZONI

Professional Goals

I am presently pursuing my career as a PhD candidate in order to contribute to make the agri-food sector ever more eco-friendly through the development of innovative control tools based on biocontrol agents.

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Academic History

University of Turin PhD candidate in Biological Sciences and Applied Biotechnology

Since November 2023

Research project title: Biology and epidemiology of emerging pathogens of crops and development of innovative control tools based on biocontrol agents.

Supervisor: Vladimiro Guarnaccia

University of Turin Department of Agricultural, Forest and Food Science

Master of Science - Plant biotechnology - 110/110 cum laude
September 2019 - November 2021

University of Sassari Department of Agricultural Science

Bachelor - Agricultural science - 110/110 cum laude
September 2015 - December 2018

Research Experience

Research Assistant

University College Dublin - School of Biology and Environmental Sciences - Earth Institute

August 2022 - Sept. 2023

My research activity was related to the E-Crop project which aims at selecting beneficial endophytes to be used as microbial biostimulants on crops against biotic stress (e.g. *Fusarium graminearum*) and abiotic stress (e.g. drought).

Supervisors: Prof. Fiona Doohan, Dr. Israel Ikoji

Main tasks: endophytes dual culture; biostimulant glasshouse trials; acid nucleic extraction for Omics purposes; data analysis with excel and R.

Visiting Student - Erasmus traineeship

University College Dublin - School of Agriculture and Food Science

March 2022 - April 2023

The internship was related to the development of a priming strategy on wheat against the plant pathogen *Zymoseptoria tritici*.

Supervisors: Dr. Angela Feechan, Dr. Tony Twamley.

Main tasks: leaf treatment with biostimulants; molecular analysis (RNA extraction, retro-transcription PCR, traditional PCR, agarose gel electrophoresis, RT-qPCR) and bioinformatic analysis.

Taster Thesis Student

University of Turin - Department of Agricultural, Forest and Food Science

Nov. 2020 - Nov. 2021

Master thesis title "*Development of a low environmental impact crop protection strategy on strawberry and effect on plant disease*".

Supervisor: prof. Davide Spadaro

- Phytopathological monitoring on strawberry.
- *In vitro* isolation of fungi and oomycetes from symptomatic areas .
- Molecular identification of the isolates.
- Strawberry quality analysis (colour, SST, hardness and titratable acidity).
- Statistical analysis of the data collected during the field activity (DI and DS).
- Evaluation of the pesticide's residue on the crop at the harvesting time.

Intern Student

University of Turin - Department of Agricultural, Forest and Food Science

March 2021 - June 2021

The internship was focused on the verification of the genetic correspondence of 40 cultivars of hazelnut via fingerprinting analysis of microsatellites (SSR).

Main task: acid nucleic extraction; SSR amplification by PCR; sequencing; comparison of the molecular weight between the ones of the amplified SSR and the ones reported in the department database.

Intern Student

University of Sassari | June 2018 - December 2018

June 2018 - June 2018

Thesis title "*Detection about new virus presence on grapevine in Sardinia*".

Supervisor: Dr. Vanda Prota

- Phytopathological monitoring of vineyards in the North-West of Sardinia.
- Molecular analysis (RNA extraction; retrotranscription PCR; gel electrophoresis).

Digital Competence

Office

Word Processors - Advanced

Spreadsheets - Advanced

Presentation Software - Advanced

Bioinformatic - Basic.

ImageJ - Image processing programm - Basic.

Languages Spoken

Italian - Mother tongue

English - CAMBRIDGE FIRST (B2) - June 2019

Spanish - intermediate level

Further information

Driving licence (B)

