

## Carla Gualtieri - Curriculum vitae

### EDUCATION AND TRAINING

**2017. Master Degree in Experimental and Applied Biology** at the University of Pavia, with a score of 110/110 cum laude. Thesis title: "*In silico* identification and characterization of *ICS* (*isochorismate synthase*) gene and its expression in *Salix purpurea L.*". Supervisors: Prof. Alma Balestrazzi, Prof. Jorge Paiva.

The thesis work was carried out in the frame of the project SONATA BIS 5 "PurpleWalls" (UMO-2015/18/E/NZ2/00694) at the *Department of Integrative Plant Biology - Institute of Plant Genetics, Polish Academy of Sciences* (Poznan, Polonia) under the supervision of Prof. Jorge Paiva.

**2016. Awarded a Traineeship scholarship** for a 7-months stage at the *Department of Integrative Plant Biology - Institute of Plant Genetics, Polish Academy of Sciences* (Poznan, Polonia).

Title of the Erasmus Traineeship Project: "Identification and characterization of genes involved in the biosynthesis of lignin and salicylate glycosides".

**2014. Bachelor Degree in Biology** at the University of Calabria, with a score of 101/110. Thesis title: "*Artificial inoculation of Colletotrichum acutatum on Citrus X clementina: induction of a biotic stress from fungal pathogen premise for the response by the host*". Supervisor: Prof. Beatrice Bitonti.

### LABORATORY ACTIVITIES AND SKILLS

**Molecular Biology:** nucleic acids extraction and purification (DNA, RNA), qualitative/quantitative analysis (spectrophotometric dosage, agarose gel electrophoresis), standard PCR, quantitative PCR (cDNA synthesis through retrotranscription, real-time PCR, relative and absolute quantification, reference genes).

**Bioinformatics:** knowledge and utilization of database analysis tools (DNA, RNA, proteins): Phytozome, BLAST, BioEdit, MAFFT, MEGA7, PlantCARE, Gene Structure Display Server, LinReg, GenEx

**In vitro cultures of plant cells/tissues/organs:** *Salix purpurea* (*in vitro* propagation of apical and lateral meristems; cutting propagation).

**Microbiology:** fungal cultures preparation and maintenance

### PUBLICATIONS

Paiva JP, Pagano A, **Gualtieri C**, Gomes C, Araujo S, Balestrazzi A. 5-azacitidine and hydroxyurea affect germination and seedling development. 2<sup>nd</sup> International Legume Society Conference. October 11-14, **2016**. Troja (Portugal).

### WORKSHOPS AND SEMINARS ATTENDANCES

March 2016 (Poznan, Polonia)

- **Kick-off meeting:** BIO-TALENT Project
- **Workshop:** *Introduction to system biology*
- **Seminar:** *Analysis of gene expression associated with response to water deficit stress among barley varieties selected from national registry*. Dr. Sara Blicharz, Institute of Plant Genetics

April 2016 (Poznan, Polonia)

▪ **Seminar:** *Species diversity of Trichoderma isolated from various habitats in Poland and their antagonistic activities towards toxigenic Fusarium.* Dr. Lidia Błaszczyk, Department of Pathogen Genetics and Plant Resistance

▪ **Workshop:** *How to write a good article.* Prof. Frederick Stoddard-University of Helsinki

▪ **Seminar:** *Abiotic stress tolerance in faba bean germoplasm.* Prof. Frederick Stoddard-University of Helsinki

May 2016 (Poznan, Polonia)

▪ **Seminar:** *Epigenetic regulation and transgenerational inheritance.* Prof. Jerzy Paszkowski-University of Cambridge