Carla Gualtieri - Curriculum vitae

Laboratory of Plant Biotechnolohy
Department of Biology and Biotechnology 'L. Spallanzani'
Via Ferrata 9, 27100, Pavia
Tel.: 00390382985435
Email: carla.gualtieri01@universitadipavia.it

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

- ***GOOD KNOWLEDGE OF THE ENGLISH LANGUAGE – SPEAKING AND WRITING***

PUBLICATIONS

Paiva JP, Pagano A, **Gualtieri C**, Gomes C, Araujo S, Balestrazzi A. 5-azacitidine and hydroxyurea affect germination and seedling development. 2nd 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