



Alessandra Diomaiuti

WORK EXPERIENCE

[01/01/2019 – 31/03/2019] **Cenci-Bolognetti fellowship**

Plant physiology lab. "C. Darwin" Dept. of Biology and Biotechnologies "La Sapienza" University

City: Rome

Country: Italy

[01/04/2019 – 31/03/2020] **Research fellowship**

"C. Darwin" Dept. of Biology and Biotechnologies- "La Sapienza" University of Rome

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "NETWORK-CIB: CATALISI DELL'INNOVAZIONE NELLE BIOTECNOLOGIE"

[01/04/2020 – 31/03/2021] **Research fellowship**

"C. Darwin" Dept. of Biology and Biotechnologies- "La Sapienza" University of Rome

City: Rome

Country: Italy

Main activities and responsibilities:

Project title: "NETWORK-CIB: CATALISI DELL'INNOVAZIONE NELLE BIOTECNOLOGIE"

[20/09/2021 – 31/12/2021] **University fellowship**

"C. Darwin" Dept. of Biology and Biotechnologies- "La Sapienza" University of Rome

City: Rome

Country: Italy

Main activities and responsibilities:

40 hours of tutor activity in the botanical laboratory for the PLS in Biology and Biotechnology

EDUCATION AND TRAINING

[01/10/2018 – Current] **Ph.D. in Cell and Developmental Biology**

Dept. Biology and Biotechnologies at “La Sapienza” University of Rome

Address: Rome, Italy

Main subject / occupational skills covered:

Thesis title: "Dissection of the molecular mechanisms underlying the phenomenon of "priming" of defence responses in *Arabidopsis thaliana*"

[2016 – 2018] **Master's degree in Genomic, Industrial and Environmental Biotechnology**

“La Sapienza” University of Rome

Address: Rome, Italy

Final grade: 110/110 cum laude

Main subject / occupational skills covered:

Project title: "Enzymatic pre-treatments to release fermentable sugars from different lignocellulosic biomasses"

[10/2017 – 10/2018] **Traineeship**

“C. Darwin” Dept. of Biology and Biotechnologies- “La Sapienza” University of Rome

Address: Laboratory of Plant Physiology. Supervisor Prof. Simone Ferrari

[2011 – 2016] **Bachelor's degree in Biology**

“La Sapienza” University of Rome

Address: Rome, Italy

Final grade: 98/110

Main subject / occupational skills covered:

Project title: "Regolazione della biosintesi della lignina nel mutante *cop1-4*"

[02/2016 – 06/2016] **Traineeship**

“C. Darwin” Dept. of Biology and Biotechnologies- “La Sapienza” University of Rome

Address: Laboratory of Molecular Biology. Supervisor Prof. Giovanna Serino

[17/06/2019 – 20/06/2019] **Summer school - Epigenetic and RNA-mediated regulation in plant development and stress response**

SIBV-PGB-SIGA

Address: Conegliano (TV), Italy

Qualified to officially practice as a biologist according to Italian statute

University of Salento “Unisalento”

Address: Lecce (LE), Italy

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Powerpoint | Microsoft Office |
Databases i.e. TAIR and NCBI | Gene Ontology (GOrrilla, PANTHER) | Good knowledge of
ImageJ software | Basic R studio | Pfam, Clustal-Omega

CONFERENCES AND SEMINARS

[04/09/2019 – 06/09/2019] **XI Congress SIBV (Italian Society Plant Biology)** Padova (PD), Italy

Alessandra Diomaiuti, Moira Giovannoni, Morgana Alameddine & Simone Ferrari

"Dissection of the molecular mechanisms underlying the phenomenon of "priming" of defence responses in *Arabidopsis thaliana*"

[12/07/2021 – 13/07/2021] **2021 IS-MPMI Congress eSymposia Series** online

Alessandra Diomaiuti, Moira Giovannoni & Simone Ferrari

"Resistance of *Arabidopsis thaliana* against *Botrytis cinerea* induced by biological elicitors involves extensive priming of transcriptional responses to pathogen infection."

PUBLICATIONS

[2020]

The cotton wall-associated kinase GhWAK7A mediates responses to fungal wilt pathogens by complexing with the chitin sensory receptors

Wang, P.; Zhou, L.; Jamieson, P.; Zhang, L.; Zhao, Z.; Babilonia, K.; Shao, W.; Wu, L.; Mustafa, R.; Amin, I.; **Diomaiuti, A.**; Pontiggia, D.; Ferrari, S.; Hou, Y.; He, P.; Shan, L.. - In: PLANT CELL. - ISSN 1040-4651. - 32:12(2020), pp. 3978-4001.

Qualified

TECHNICAL SKILLS

Lab Techniques

In vivo cultures of bacterial, plants, fungi and algae: solutions, medium preparation; samples manipulation; propagation in sterility condition.

Molecular Biology techniques: DNA, RNA extraction, nucleic acid quantification, PCR analysis, RT-PCR analysis, Real Time PCR, electrophoresis technique.

Biochemical methodologies: total protein extraction, microsomal protein extraction, protein quantification, SDS page, Western Blot analysis .

Stable transformation mediated by Agrobacterium (Floral Dip) and mutants screening.

Pathogenicity assays in plant systems using both bacterial and fungal pathogens.

Microscopy and anatomical analysis of plant structures.

High Performance Liquid Chromatography for saccharification analysis. Lignocellulose enzymatic saccharification process.

Bionformatic techniques: RNAseq data analysis

La sottoscritta Alessandra Diomaiuti, consapevole che le dichiarazioni false comportano l'applicazione delle sanzioni penali previste dall'art. 76 del D.P.R. 445/2000, dichiara che le informazioni riportate nel seguente curriculum vitae, redatto in formato europeo, corrispondono a verità. Inoltre autorizzo la pubblicazione del mio curriculum vitae e il trattamento dei dati personali in esso contenuti in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16