



CONTACT

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FORMATION

2007-12 Humanistic Lyceum

Liceo Classico Francesco Durante,
Frattamaggiore (NA)

2012 - 15 Federico II University, Naples

Bachelor Degree in Biomolecular and
Industrial Biotechnology.

“*Escherichia coli* recombinant for the
production of polyhydroxyalkanoates
(PHAs)”.

110/110 *with laude*

2015 - 17 Federico II University, Naples

Master Degree in Molecular and Industrial
Biotechnology.

“A new bioprocess for vegetable exhaust oil’s
valorisation: biodiesel and PHAs production”

110/110 *with laude*

2017 – 2018 Internship at the Centre Scientifique de Monaco

“Impact of climate change on coral
calcification”

LANGUAGES



▲ Italian ▲ English ▲ French

COMPETENCES

PC/MAC ◆◆◆
MS OFFICE ◆◆◆
MAT LAB ◆◆

Driving Lincence ✓

EXPERIENCE & FORMATION

LIFE EXPERIENCE, 2003-4 : Frequenting the fifth grade in the United States of America, Burbank School

RESEARCH EXPERIENCE IN BIOCHEMISTRY, 2014-15 : During this period I contributed in modifying the genome of *Escherichia coli* by introducing genes involved in the production of PHAs. The constructed strain was able to synthesize biopolymers that can be used as a “greener” alternative to conventional petroleum-based plastics.

RESEARCH EXPERIENCE IN CHEMICAL AND MOLECULAR BIOLOGY, 2016-17: I worked on the valorisation of waste frying oil by performing microbial fermentation using it as a substrate. The microorganism used in the present study has been *P. resinovorans*, which has been chosen for its abilities in producing biopolymers and growing on free fatty acids. Transesterification reactions have been further performed and improved to test the so treated oil for the production of biodiesel.

PARTECIPATION TO START CUP CAMPANIA 2017 : Presenting a novel approach for the disposal of *Posidonia oceanica*, a plant that accumulates on the beaches of the Mediterranean sea threatening tourist areas. The project proposed consisted in valorising this discard by converting it into a pudding material.

INTERNSHIP AT THE CENTRE SCIENTIFIQUE DE MONACO (CSM) 2017-18:

Purpose of this Internship Program has been to study the impact that climate changes have on coral calcification. Specifically, differential expression of proton pumps coding genes has been analysed to find insights on how coral response to ocean acidification.