

## Contacter

elisa.dellaglio@gmail.com

www.linkedin.com/in/elisa-dellaglio-3b30a977 (LinkedIn)

## Principales compétences

Biotechnology

Lifesciences

Biochemistry

## Languages

Italian (Native or Bilingual)

French (Full Professional)

English (Full Professional)

## Certifications

Bioinformatic Methods I

Mathematical Biostatistics Boot Camp 1

## Honors-Awards

Best poster presentation

## Publications

The Lotus japonicus MAMI gene links root development, arbuscular mycorrhizal symbiosis and phosphate availability.

The Pseudoenzyme PDX1.2 Sustains Vitamin B6 Biosynthesis as a Function of Heat Stress

Complementary biochemical approaches applied to the identification of plastidial calmodulin-binding proteins.

An AM-induced, MYB-family gene of Lotus japonicus (LjMAMI) affects root growth in an AM-independent manner.

No plastidial calmodulin-like proteins detected by two targeted mass-spectrometry approaches and GFP fusion proteins

# Elisa Dell'Aglio

Researcher - insect/plant epigenetics, symbioses and physiology by biochemistry and genome editing.

Grossa, Corse, France

## Expérience

INSA Lyon - Institut National des Sciences Appliquées de Lyon

Assistant Project Scientist

septembre 2018 - Present

Région de Lyon, France

Epigenetic regulation, symbiosis and genome editing in non-model insects with major impact on agriculture.

Department of Botany and Plant Biology, University of Geneva

Project Coordinator

août 2014 - février 2018 (3 ans 7 mois)

Geneva

Coordination of a research project on vitamin plant production.

Project aim: to characterize the plant vitamin need in environmental stress conditions and unravel how vitamin production is regulated in plants; to produce plants with altered vitamin content.

Management of students and technicians.

Technical tools: gene editing by CRISPR-Cas9 technology, protein-DNA binding tests, quantification of vitamin content by HPLC, isolation of compounds by HPLC, quantification of gene expression by qPCR and luciferase/GFP reporter tests. Protein thermal shift assays. Plant stress experiments. Experience with several crops (rice, maize and tomato), cell cultures and in vitro plant growth.

le Scienze - gruppo editoriale l'Espresso

Science communication

avril 2014 - juin 2014 (3 mois)

Roma, Italia

Writing, translation and post-editing of articles for the magazines Le Scienze and Mente&Cervello.

Collaboration with the online science communication platform AIRInforma, TheScienceBreaker, Ventiblog (ongoing).  
Organization of science workshops.  
Collaboration with the RTS découverte (website of the Swiss television).

**CEA, CNRS, University of Grenoble**

**Assistant Research Scientist**

décembre 2010 - décembre 2013 (3 ans 1 mois)

CEA - Grenoble

Coordination of a research project on plant responses to environmental stress for a better management of agriculture and energy resources.

Project aim: to characterize protein-calcium networks in plant chloroplasts involved in plant adaptation to environmental conditions.

Technical tools: development of new assays to measure protein-protein affinities by fluorescence anisotropy and enzymatic tests. Gene cloning, protein production and purification from bacteria and plants. Physiological measurements of photosynthetic parameters, genotyping and phenotyping of Arabidopsis mutants. Plant cell cultures and in vitro root/seedling culture. Hydroponic cultures.

**Department of Plant Biology, Torino, ITALY**

**Master research project**

octobre 2009 - octobre 2010 (1 an 1 mois)

Turin

Co-management of a research project on symbiotic interactions between plants and soil fungi for a green and sustainable agriculture

Project aim: characterization of the role of a plant transcription factor in establishing the symbiotic association between legume plants and arbuscular fungi in the soil.

Acquired skills: in vitro plant and root cultures, plant/root transformation, gene cloning with the Gateway technology. Assessment of symbiotic association. Gas chromatography.

Outcome: two articles in peer-reviewed journals.

**University of Fribourg**

stagiaire

juin 2009 - août 2009 (3 mois)

Fribourg (CH)

Analysis of biocompounds involved in plant defense responses by HPLC.

Selection of plant mutants affected in pathogen responses.

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## Formation

Università degli Studi di Torino

Master's degree, Biomolecular Sciences · (2008 - 2010)

Agenzia formativa tuttoEuropa

Master in Scientific and Technical translation, Translation (English <-> Italian;

French <-> Italian) · (2013 - 2014)

Università degli Studi di Torino

Bachelor's degree, Biological Sciences · (2005 - 2008)

liceo Gioberti