



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6374

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at Dipartimento di Scienze Agrarie e Ambientali - Produzione, Territorio, Agroenergia dell'Università degli Studi di Milano

Scientist in charge: Prof. Antonio Ferrante.

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Salame
Name	Elige

PRESENT OCCUPATION

Appointment	Structure
Borsista	Scuola Superiore Sant'Anna- Centro di ricerca produzioni vegetali

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree1	Bachelor of general biology	Lebanese university, Faculty of Sciences	2009
Degree 2	Bachelor of Agricultural sciences. Major: Plant Science and Thechnology	Lebanese university, Faculty of Agronomy and Veterinary Sciences	2011
Master 1	Agricultural engineering Master of Agricultural Sciences. Major: Plant Production	Lebanese university, Faculty of Agronomy and Veterinary Sciences	2014
Master 2	Master of Science Major: Horticultural Genetics and Biotechnology (Cum Maxima Laude)	International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Mediterranean Agronomic Institute of Chania (MAICh)	2019
PhD	AgroBioSciences	Scuola Superiore Sant 'Anna	2020-Current



FOREIGN LANGUAGES

Languages	Level of knowledge
English	C1
French	C1
Italian	B1
Arabic	Mother tongue

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2024	Borsa di studio post-laurea Scuola Superiore Sant'Anna, Pisa, Italy
2020	Scholarship for PhD Scuola Superiore Sant'Anna, Pisa, Italy
2017	Scholarship for Master of Science International Centre for Advanced Mediterranean Agronomic Studies (CIHEAM), Paris, France
2014	Botanic and Systemic intensive courses Holy Spirit University of Kaslik (USEK), Lebanon

TRAINING OR RESEARCH ACTIVITY

As a Research Assistant at the Mediterranean Agronomic Institute of Chania, department of Horticulture Genetics and Biotechnology in the academic year 2019-2020, my main involvement centered around investigating the salinity tolerance of Greek olive trees (*Olea europaea*). I concurrently assisted master's students with plant molecular biology for various crops (*Solanum lycopersicum* and *Arabidopsis thaliana*), encompassing data analysis and scientific writing.

Presently, I am actively contributing as a research fellow (borsista) at Scuola Superiore Sant'Anna, focusing on postharvest studies of perishable fruits. My responsibilities involve diverse tasks aimed at assessing the physiological, biochemical, and molecular responses of fruits, contributing to the overall quality of fruits at the end of the storage period.

Key activities include:

Storage optimization:

- Managing and optimizing storage conditions, including temperature and humidity control, to prolong shelf life and maintain fruit freshness.

Research Laboratory Expertise:

- Proficient in plant physiology, plant molecular biology, plant biotechnology techniques,



biochemical lab procedures, postharvest quality assessments, metabolomics analysis, and the utilization of various laboratory instruments (QTRAP+, GC FID, GC-MS).

Data Analysis and Statistics:

- Skilled in R and RStudio, JMP Data Analysis Software, coding in R, and using GraphPad Prism.

Imaging Proficiency:

- Competent in ImageJ and possesses basic elements knowledge of Adobe Photoshop.

PROJECT ACTIVITY

Year	Project
2021-2024	<p>Evaluation of the physiology of apples (<i>Malus domestica</i> Brokh. var Red delicious) stored under Dynamic Controlled Atmosphere (DCA).</p> <p>With the collaboration of:</p> <ul style="list-style-type: none">- Università degli studi di Padova. Dipartimento di Agronomia Animali Alimenti Risorse naturali e Ambiente, DAFNAE.- MARVIL Engineering <p>The project consist of evaluating apples (<i>Malus domestica</i> Borkh.) stored under cold DCA storage for a period of 6 months. Red delicious apples quality parameters, primary metabolism, and secondary metabolism. Transcriptomics and metabolomics are monitored in both tissues pulp and peel.</p>
2022-2024	<p>Characterization of postharvest behavior of the new cultivar breed of kiwifruit (<i>Actinidia chinensis</i>) in cold storage and normal atmosphere.</p> <p>With the collaboration of:</p> <ul style="list-style-type: none">- Università degli studi di Padova. Dipartimento di Agronomia Animali Alimenti Risorse naturali e Ambiente, DAFNAE.- New Plant, Ricerca e Studio Novità Vegetali, (Breeding company). <p>The project focuses on describing the storability of a new Italian breed of kiwifruit with green pulp claimed to have better quality and more balanced taste. Different maturation stages, storage temperatures, 1-MCP and ethylene treatment responses are evaluated. Fruits are assessed on the pomological, molecular and metabolomic levels.</p>



CONGRESSES AND SEMINARS

Date	Title	Place
2023	Gruppo di discussione su metodi analitici nella chimica degli alimenti Oral presentation: "Apple Fruit Controlled Atmosphere Storage Unravelling Postharvest Physiology via LC MS/ MS" <i>Elige Salamé, Stefano Brizzolara, Pietro Tonutti</i> <i>Presenting author: Elige Salamé</i>	Fai della Paganella, Italy
2023	3 rd Annual Meeting-COST Action (Roxy-CA18210) Abstract and Oral presentation: "Physiological and molecular responses of <i>Malus domestica</i> Borkh. (cv. Red Delicious) under Dynamic Controlled Atmosphere with different timing of oxygen supply". <i>Elige Salamé, Stefano Brizzolara, Pietro Tonutti</i> <i>Presenting author: Elige Salamé</i>	Antalya, Turkey
2023	VII th International Symposium on Applications of Modelling as an Innovative Technology in the Horticultural Supply Chain, Model-It	Potsdam, Germany
2022	8 th National POST-Harvest Convention Abstract and Oral Presentation: "Dissecting the physiological effects of postharvest hypoxic stress on 'Stark delicious' apples". <i>Elige Salamé, Stefano Brizzolara, Marta Rodrigues, Benedetto Ruperti, Pietro Tonutti</i> <i>Presenting author: Elige Salamé</i>	Pescia, Italy
2022	8 th National POST-Harvest Convention Abstract and Oral presentation: "Le problematiche della conservazione del kiwi in relazione all'evoluzione e differenziazione varietale del mercato." <i>Claudio Bonghi, Benedetto Ruperti, Elige Salamé, Mirco Montefiori, Pietro Tonutti</i> <i>Presenting Author: Claudio Bonghi</i>	Pescia, Italy
2021	XIII th International Controlled and Modified Atmosphere Research Conference CAMA2021. Oral presentation: (Online) "The expression pattern of primary metabolism key genes is differentially affected in the apple cortex following the oxygen	KU Leuven, Belgium



	concentration shift applied in DCA storage protocols." <i>Nadia Cainelli, Elige Salamé, Margherita Modesti, Stefano Brizzolara, Benedetto Ruperti, Pietro Tonutti</i> <i>Presenting Author: Pietro Tonutti</i>	
2019	29 th Congress of the Hellenic Society of Fruit and Vegetables Science. "Research Applications and Leading Technologies in Crop Production". Oral presentation: "Study of the expression of Prolyl-4-hydroxylases and Arabinogalactan proteins in response to salinity in Greek olive cultivars". Salameh I., Azariadis A., Kouhen M., Rizou M., Mekkaoui K., Blazakis K., Mohammed L., Dandachi F., Kostelenos G., Kalaitzis, P	Patras, Greece.
2019	Data Integration as a key step for future grapevine. Intergrape.	Chania, Greece
2019	XV th Cell Wall meeting Abstract: "Identification and characterization of olive Prolyl-4-Hydroxylases and Arabinogalactan proteins in response to salinity." <i>Kalaitzis P., Azriadis A., Kouhen M., Rizou M., Mekkaoui K., Blazakis K., Salameh I., Mohammed L., Dandachi F.</i>	Cambridge, United Kingdom
2018	XI th International Symposium on the Plant Hormone Ethylene.	Chania, Greece
2014	20 th LAAS International Scientific Conference, New frontiers in sciences. Poster: "Preliminary Assessment of Flora Biodiversity of Hermon Mountain- Lebanon." <i>Nelly Arnold (USEK), Lamis Chalak (UL), Munir Mhanna (Ministry of social affairs), Helena Dalleh (BAU), Oussama Halablab (BAU), Ilige Salameh (UL), Safaa Baydoun (BAU).</i>	Beirut, Lebanon
2014	UCN Red Listing Lebanese plants: a comprehensive workshop	Beirut, Lebanon
2014	Plant Identification: tools and challenges.	Beirut, Lebanon



PUBLICATIONS

Articles in reviews

Transcriptional fermentation-and ethylene physiology-related genes expression profiles in Red Delicious apples stored under variable hypoxic conditions and protocols.

Salamé, E., Brizzolara, S., Rodriguez, M., Iob, M., Tonutti, P., Ruperti, B. (2023).
Advances in Horticultural Science, 37(1), 89-99.
<https://doi.org/10.36253/ahsc-14180>

Response of Prolyl 4 Hydroxylases, Arabinogalactan Proteins and Homogalacturonans in Four Olive Cultivars under Long-Term Salinity Stress in Relation to Physiological and Morphological Changes.

A. Azariadis, F. Vouligeas, E. Salame, M. Kouhen, M. Rizou, K. Blazakis, P. Sotiriou, L. Ezzat, K. Mekkaoui, A. Monzer, A. Krokida, ID. Adamakis, F. Dandachi, B. Shalha, G. Kostelenos, G. Kostelenos, E. Figgou, E. and P. Kalaitzis (2023).
Cells, 12(11), 1466.
<https://doi.org/10.3390/cells12111466>

Plant cell walls tackling climate change: Insights into plant cell wall remodeling, its regulation, and biotechnological strategies to improve crop adaptations and photosynthesis in response to global warming.

Ezquer, I., Salameh, I., Colombo, L., Kalaitzis, P. (2020).
Plants, 9(2), 1-27.
<https://dx.doi.org/10.3390/plants9020212>

OTHER INFORMATION

Currently, I am in the process of writing, refining, and analyzing data for my doctoral dissertation, aiming to submit and defend it by mid-2024.

Place and date: Pisa, 08/02/2024