



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 4747

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**

Scientist- in - charge: **Prof. Antonio Ferrante**

Francesco Elia Florio

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Florio
Name	Francesco Elia
Date of birth	22/01/1991

PRESENT OCCUPATION

Appointment	Structure
Scholarship	CREA-GB Montanaso Lombardo

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Agri-Food Production and Agro-ecosystem Management (LM-69)	University of Pisa	2016
Specialization			
PhD	Phd Agriculture, Environment and Bioenergy	University of Milan	in progress, XIII° ciclo
Master			
Degree of medical specialization			
Degree of European specialization			
Other			



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City

FOREIGN LANGUAGES

Languages	level of knowledge
English	B2

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019-2021	Scholarship: "Obtaining of parthenocarpic eggplant's plants through Genome Editing and Cis-genesis" at the Research Center CREA for Genomics and Bioinformatics (CREA- GB)
2019	Winner and Renunciation of the Public Selection for qualifications and interview for n° 1 scholarship on the theme: "Isolation and characterization of resistance genes by genome sequencing" the Research Center CREA for Genomics and Bioinformatics (CREA-GB)
2018-2019	Research activity at Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV-IPN) Mexico as part of the European ExpoSEED "Marie Curie Projects" project for a total duration of 8 months
2017-2018	Scholarship at Crea-GB "Phenotypic and molecular characterization of the QTL's and genes associated with the pigmentation of the eggplant fruit".

TRAINING OR RESEARCH ACTIVITY

<p>I am working in the field of horticulture and floriculture with a biotechnologies approach since 2013 thanks to the development of my first thesis concerning the flowers <i>in vitro</i> culture. Since 2017 thanks to an internship at Crea-GB of Montanaso Lombardo, a leader public research center in the field of plant genetic improvement. I was enthusiastic, fascinated and intrigued by this world. Immediately I start to work both in the field and in the molecular laboratory, a characteristic that distinguishes me and that allowed me to reach all the prefixed targets. At CREA-GB, in addition to the PhD project, which is based on the identification of genes related to the anthocyanins accumulation in eggplants, I deal with other projects, among the others the obtaining of parthenocarpic eggplants and the identification of QTL's and genes associated with resistance to soil pathogens. During the last three years, I have been involved in an European project entitled EXPO SEED, and part of this project was developed at the CINVESTAV institute in Mexico, where I was for a year, directly work in the project. The results obtained allowed me to raise up the targets and build a solid collaboration with the foreigner research group. This confirm that I can interact with different cultures, with different languages and environmental conditions. Definitely, during my PhD experience, I have integrated my agronomic background with a biotechnological and data analysis skills which allow me to face multidisciplinary problems. The main activities that I am carrying out at CREA are the following:</p> <ol style="list-style-type: none"> 1) Field/Greenhouse: breeding of genotypes of interest, looking for interesting mutations, controlled crosses for preliminary genetic tests, phenotyping of eggplant accessions; 2) Molecular biology laboratory: Development of various kinds of markers, qPCR analysis and genotyping of eggplant accessions;



- 3) Development of constructs for Genome Editing using CRISPR/Cas9 system, transformation through infection by *Agrobacterium tumefaciens*, screening of transformed plants by sequencing of target genes and development of HRM markers for T1 populations screening;
- 4) HPLC analysis of secondary metabolites;
- 5) Data processing (with programs such as PRISM, JMP and R).

PROJECT ACTIVITY

Year	Project

PATENTS

Patent B

CONGRESSES AND SEMINARS

Date	Title	Place
October 28-31, 2019	XVIII National Congress of Biochemistry and Plant Molecular Biology XI Symposium México/USA & 1st ASPB México Section Meeting.	Mérida Yucatán, México
March 2017	VI International Symposium on Production and Establishment of Micropropagated Plants-The improvement of <i>Iris pallida</i> propagation by somatic embryogenesis (M. Lucchesini, L. Bedini, E.F. Florio, R. Maggini, F. Malorgio, B. Pezzarossa, A. Mensuali-Sodi)	San Remo, Italy

PUBLICATIONS

Books

Articles in reviews
The improvement of <i>Iris pallida</i> propagation by somatic embryogenesis. <i>Acta Hort.</i> 1155, 127-134 DOI: 10.17660/ActaHortic.2017.1155.17 Lucchesini, M., Bedini, L., Florio, E.F., Maggini, R., Malorgio, F., Pezzarossa, B. and Mensuali-Sodi, A. (2017).
Identification of a new R3 MYB type repressor and functional characterization of the members of the MBW transcriptional. <i>Plos one</i> , 15(5), e0232986. Andrea, M., Francesco, E. F., Sergio, I., Alessandra, G., Maria, A. M., Cinzia, C., ... & Laura, T. (2020).



Congress proceedings

OTHER INFORMATION

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Lodi, 27/10/20

SIGNATURE

Francesco Tio Floris