

## **Curriculum vitae et studiorum of Emidio Albertini, PI**

### **Emidio ALBERTINI**

**Place and date of birth:** Ascoli Piceno, Italy, April 21, 1969.

**Current position:** Associate Professor in Genetics, University of Perugia

### **Previous positions:**

2002-2013. Researcher, University of Perugia, Italy.

2006. Fulbrighter (Research Scholar), University of Georgia, GA, USA

2001. Lecturer of Plant Genetic Resources, University of Camerino, Italy

1999-2002. PostDoctoral Fellow, University of Perugia.

1998-1999. Visiting Scientist, Seminis Vegetable Seeds (now part of Bayer)

1995. Internship, University of Reading, UK.

### **Education:**

1996. M.D in Agricultural Science with Magna cum Laude, University of Perugia, Italy.

2000. Ph.D. in Seed Science and Technology, University of Torino, Italy.

### **Bibliometric indicators:**

Emidio Albertini has 83 peer reviewed publication. He has *h index* of 25 (Scopus), 30 (Google scholar). Citation 1595 (Scopus), 2520 (Google scholar). <https://orcid.org/0000-0003-2585-5649>

### **Management activities:**

From **2019** Coordinator of the PhD School in Agricultural, Food and Environmental Sciences and Biotechnologies

From **2017** President of the Equal Opportunities Office at the University of Perugia

From **2015** to **2017** member of the directory board of the Italian Society of Agricultural Genetics

**2013.** Organizer of the European Frontiers in Plant Reproduction Research Conference, Oslo, Norway.

**2012.** Organizer of the European Plant Reproduction for Crop Improvement Workshop, Perugia, Italy.

From **2002** Organizer of the Apomixis workshop of the Plant and Animal Genome Conference held every January in San Diego, California.

**2007.** Organizer of the 3rd International Conference on Apomixis, Wernigerode, Germany.

**2006.** Organizer of the Eucarpia meeting, Perugia, Italy.

### **International Research Grants in the last 10 years:**

**2020-2024.** Coordinator, H2020-MSCA-RISE-2020, acronym PolyPLOID (project n. 101007438).

<https://cordis.europa.eu/project/id/101007438>

**2019-2023.** PI, H2020-MSCA-RISE-2019, acronym MAD (project n. 872417), <https://cordis.europa.eu/project/id/872417>.

**2015-2020.** PI, H2020-MSCA-RISE-2015, acronym SEXSEED (project n. 690946), <https://cordis.europa.eu/project/id/690946>.

**2014-2019.** Coordinator, H2020-MSCA-RISE-2014, acronym PROCROP (project n. 645674), <https://cordis.europa.eu/project/id/645674>.

**2009-2013.** Chair of the COST Action FA0903, that involved 68 Research groups belonging to 23EU countries, 4 non-EU countries and two companies (Pioneer hi-Bred and Keygene). [www.cost.eu/actions/FA0903](http://www.cost.eu/actions/FA0903)

### **Professional membership:**

Member of the Italian Society of Agricultural Genetics

The international Society of Sexual Plant Reproduction (lifetime membership)

### **Honours and Awards:**

**1996.** G. Rosini Price for the best MD thesis.

**2006.** United States, Department of State, Fulbright Scholarship category "Research Scholar".

### **Referee for International Journal and editorial board membership:**

Co-editor in 2013 of a special edition for PLANT REPRODUCTION. Co-editor in 2019 of a special edition for FRONTIERS IN PLANT SCIENCES and PLANTS. Co-editor in 2020 for a special issue of Plants and of International Journal of Molecular Sciences. From 2016 Topic Editor of FRONTIERS IN PLANT SCIENCES. From 2015 Academic Editor: PLoS One and BMC Genetics. Reviewer for the following international journals:

BMC series, Plant Cell, Plant Physiology, TAG, Molecular Breeding, PLoS Biology, PLoS Genetics, Nature Communication, Scientific Reports, Plant Reproduction, Journal of Experimental Botany, Plant Cell, etc.

#### **Referee for national and International Granted Agencies:**

In the last 10 years he has been in the panel of the following granting agencies: European Science Foundation (ESF), Research Foundation – Flanders (FWO), Belgium, Austrian Science Fund (FWF), Austria, Agence nationale de la recherche (ANR), France; Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), Netherlands, Ministero dell'istruzione, dell'università e della ricerca (MIUR) Italy; CINECA.

#### **National and International teaching activities and Ph.D commissions:**

He has been Tutor for 12 PhD students (being the principal supervisor for 10 of these), all of which completed and were awarded their PhD within 3 years. He has employed 2 Research Assistants at the postdoctoral level for 7 and 5 years, respectively. He has supervised more than 90 MD students 25 of which are now either PhD students in Italian and European Universities or work in Seed/Biotech companies. His first PhD student has gone on permanent academic position. Since 2019 he is the Chair of the PhD School in Plant, Food and Environmental Sciences and Biotechnologies. He has also acted as the main External Examiner for PhD defenses in Ireland and in USA. In the last 10 years he has been teaching Genetics, Plant Genetics, Molecular Genetics, Applied Genomics and Bioinformatics, Plant breeding to the bachelor and master students at the University of Perugia.

Moreover, in the last decade, he has carried out consistent and constant seminar activities, both in domestic meetings and foreign countries. In particular, many oral communications as either selected or invited lectures have been given in national and international conferences (e.g., Plant and Animal Genome Congress, Sexual Plant Reproduction Congress, International Plant Molecular Biology Conference, International Botanical Congress, International Apomixis Congress, International Sexual Plant Reproduction Meeting, Annual Congress of the Italian Society of Agriculture Genetics, etc.).

#### **Ten influential publications, listed in chronological order.**

- Napolitano M, Terzaroli N, Kashyap S, Russi L, Jones-Evans E, Albertini E. + Exploring Heterosis in Melon (*Cucumis melo* L.). **Plants**. This manuscript is in collaboration with Bayer.
- Aiello D, Ferradini N, Torelli L, Volpi C, Lambalk J, Russi L, Albertini E (2020) Evaluation of Cross-Species Transferability of SSR Markers in *Foeniculum vulgare*. **Plants** 9: 175. Doi: 10.3390/plants9020175. This manuscript is in collaboration with Enza Zaden.
- Marconi G, Capomaccio S, Comino C, Acquadro A, Portis E, Porceddu A, Albertini E (2019). Methylation content sensitive enzyme ddRAD (MCSeEd): a reference-free, whole genome profiling system to address cytosine/adenine methylation changes. **Scientific reports** 9, 14864 (2019) doi:10.1038/s41598-019-51423-2
- Garbus I, Selva JP, Pasten MC, Bellido AM, Carballo J, Albertini E, Echenique V (2019). Characterization and discovery of miRNA and miRNA targets from apomictic and sexual genotypes of *Eragrostis curvula*. **BMC Genomics** 20, 839. doi:10.1186/s12864-019-6169-0
- Carballo J, Santos BACM, Zappacosta D, Garbus I, Selva JP, Gallo CA, Díaz A, Albertini E, Caccamo M, Echenique V (2019) A high-quality genome of *Eragrostis curvula* grass provides insights into Poaceae evolution and supports new strategies to enhance forage quality. **Scientific reports** 9:10250. doi: 10.1038/s41598-019-46610-0
- Zappacosta DC, Gallardo JA, Carballo J, Meier MS, Rodrigo JM, Gallo CA, Selva JP, Stein J, Ortiz JPA, Albertini E, Echenique V (2019) A high-density linkage map of the forage grass *Eragrostis curvula* and localization of the diplospory locus. **Frontiers in Plant Science** doi: 10.3389/fpls.2019.00918
- Albertini E, Barcaccia G, Carman JG, Pupilli F (2019) Did apomixis evolve from sex or was it the other way around? **Journal of Experimental Botany** 70 (11), pp. 2951-2964
- Marconi G, Ferradini N, Russi L, Concezzi L, Veronesi F, Albertini E (2018) Genetic characterization of the apple germplasm collection in Central Italy: the value of local varieties. **Frontiers in Plant Sci** 9: 1460. doi: 10.3389/fpls.2018.01460.
- Bocchini M, Galla G, Pupilli F, Bellucci M, Barcaccia G, Ortiz JPA, Pessino SC, Albertini E (2018) The vesicle trafficking regulator PN\_SCD1 is demethylated and overexpressed in florets of apomictic *Paspalum notatum* genotypes. **Scientific Reports** 8. Doi: 10.1038/s41598-018-21220-4.
- Bocchini M, D'Amato R, Ciancaleoni S, Fontanella MC, Palmerini CA, Beone GM, Onofri A, Negri V, Marconi G, Businelli D, Albertini E\* (2018) Soil selenium (Se) biofortification changes the physiological, biochemical and epigenetic responses to water stress in *Zea mays* L. by inducing a higher drought tolerance. **Frontiers in Plant Sci** 9: 389. doi: 10.3389/fpls.2018.00389.

Prof. Emidio Albertini, PhD

A handwritten signature in black ink, appearing to read "Emidio Albertini". The script is fluid and cursive, with the first name "Emidio" and the last name "Albertini" clearly distinguishable.