

PERSONAL INFORMATION

Pasquale Tripodi



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Loop Profile <https://loop.frontiersin.org/people/118537/overview>

Web of Science Researcher ID O-3306-2019 <https://www.webofscience.com/wos/author/record/764144>

WORK EXPERIENCE

- from 12/2022 **Research Director**
CREA Research Centre for Vegetable and Ornamental Crops
- from 01/2021 to 11/2022 **Senior Researcher**
CREA Research Centre for Vegetable and Ornamental Crops
- from 05/2011 to 12/2020 **Researcher**
CREA Research Centre for Vegetable and Ornamental Crops / Research Centre for Olive, Fruit and Citrus Crops
- From 02/2007 to 05/2011 **Postdoctoral fellowship**
CNR - National Research Council of Italy, Institute of Plant Genetics
- From 2005 to 2008 **Visiting Scholar**
Cornell University, Department of Plant Breeding and Genetics

EDUCATION AND TRAINING

- From 01/2004 to 02/2007 **Ph.D. in Plant Breeding and Genetics**
University of Naples, Faculty of Agriculture
PhD in Agrobiology and Agrochemistry XIX ° cycle specialization in Genetic Improvement and Horticulture. Thesis: <http://www.fedoa.unina.it/2247/>
- From 09/1998 to 10/2003 **M.Sc. Degree summa cum laude**
University of Naples Federico II (Italy), Faculty of Agricultural Sciences and Technologies

WORK ACTIVITIES

- Research interest** Main research lines deal with the breeding, genetics, and genomics of fruity (pepper, tomato) and leafy vegetables (rocket salad) through:
- Establishment of breeding programs to develop advanced backcross inbred lines, introgression lines, multiparental populations and core collections in vegetables.
 - Investigation of the genetic regions underlying traits of agricultural interests through QTL mapping and GWAS.
 - Use of different molecular (PCR based markers, HRM, Real Time) and genomic (GBS, RadSeq) approaches for population diversity studies.
 - Investigation of nutritionally important phytochemical compounds.
 - Determination of the genotype by environment interaction influencing the variation of traits.
 - Phenotyping activities in open field and protected environment.
 - Disease screening for soil borne pathogens.
 - Conservation genetic resources of Solanaceae, Brassicaceae, Leguminosae.

Awards	<ul style="list-style-type: none"> - National Academic Qualification as Associate Professor in Plant Breeding and Genetics (2018-2023) - UNASA National Union of Academies for Applied Sciences to the Development of Agriculture, Food Safety and Environmental Protection, Prize 2017 for the best publication in biodiversity (BMC Genomics 2016, 17:943) - Poster Prize SOL 2006 Solanaceae Genome Conference (Madison, USA);
Editorial role	<ul style="list-style-type: none"> Associate Editor for Frontiers in Genetics sect. Genomics of Plants and the Phytoecosystem Associate Editor for Molecular Horticulture (Springer Nature) Associate Editor Vegetable Research
Editorial activity	<p>Review Editor for Frontiers in Plant Science, sect. Plant Breeding and Agronomy (MDPI). Reviewer activities have been carried out for several journal including Scientific Reports (Nature); Molecular Breeding and Food Analytical Methods (Springer), Industrial Crop and Products (Elsevier); Agronomy and Plants (MDPI), BMC plant biology, World scientific journal, Plant Genetic Resources, Crop science. Over 88 verified reviews in ISI Journal's https://www.webofscience.com/wos/author/record/764144</p>
Appointments in ministry and scientific societies	<ul style="list-style-type: none"> - External expert at European Food Safety Authority (EFSA) for scientific support - Representative in the permanent working group for vegetable crops at the Ministry of Agriculture, Food Sovereignty and Forests (MASAF) - Member of the biodiversity working group at the Ministry of Agriculture, Food Sovereignty and Forests (MASAF) - Member of the technical-scientific commission for the protection of indigenous genetic resources of agricultural interest in the Lazio Region - Member of the Italian Society for Agricultural Genetics (SIGA) since 2007
Main Grants	<p><u>International</u></p> <p>2024-2025 – PRO-GRACE: Promoting a Plant Genetic Resource Community for Europe (H2020) (https://www.grace-ri.eu/)</p> <p>2020-2024 - INCREASE: Intelligent Collections of Food-Legume Genetic Resources for European Agrofood Systems (H2020) (https://www.pulsesincrease.eu/)</p> <p>2019-2023 – EVA: ECPGR European Evaluation Networks (EVA) for Lettuce and Pepper (https://www.ecpgr.cgiar.org/eva)</p> <p>2018-2022 - BRESOV: Breeding for Resilient Efficient and Sustainable Organic Vegetable Production (H2020) (https://bresov.eu/)</p> <p>2016-2021 - G2P-SOL: Linking genetic resources, genomes and phenotypes of Solanaceous crops (H2020) (http://www.g2p-sol.eu/)</p> <p>2006-2011 - EU-SOL - "High Quality Solanaceous Crops for Consumers, Processors and Producers by Exploration of Natural Biodiversity". EU-FP6</p> <p><u>National</u></p> <p>2023-2025: PNRR: Plant, animal and microbial genetic resources and adaptation to climatic changes - Linking phenotype and genotype: discovery of loci/genes/alleles for traits of interest (Ministry of Education, Universities and Research, MIUR)</p> <p>2021-2023: POFACS: Shelf-life, quality and safety of high-convenience fruit and vegetables (Ministry of Education, Universities and Research, MIUR)</p> <p>2021-2023 – AGROBIODIVERSITY: multiplication, conservation, and characterization of native herbaceous plant genetic resources of Campania region (Founder Campania Region)</p> <p>2017-2022 – RGV ORFLORA: Safeguard and utilization of plant genetic resources for agriculture improvement (Italian Minister of Agricultural, Food and Forestry Policies, Mipaaf)</p> <p>2014-2016 - PEPIC: Spicy chili supply chain: research interventions for the varietal choice and for the innovation of the cultivation processes (Italian Minister of Agricultural, Food and Forestry Policies, Mipaaf)</p> <p>2014-2015 - Fiser: Innovation and enhancement of the rocket salad seed chain (F.E.A.S.R. European funding program (P.S.R. Campania, Measure 124)</p> <p>2013-2015 - Genhort, Adding value to elite Campania horticultural crops by advanced genomic technologies (Ministry of Education, Universities and Research, MIUR)</p> <p>2006-2009 - GenoPom, "Laboratory of genomics for the innovation and enhancement of the tomato supply chain (MIUR)</p> <p>2006-2009 - PROM: Research project to enhance the competitiveness of horticultural plants in Southern areas (Mipaaf)</p> <p>2006-2009 – FIRB: National laboratory of genomics and postgenomics of organisms of agricultural interest (MIUR).</p> <p>2004-2006 - Agronanotech: The new molecular technologies for genome analysis of organisms of</p>

agricultural interest (Mipaaf)

PERSONAL SKILLS

Mother tongue(s)	Italian
Other language(s)	English, level C1 (advanced/expert)
Job-related skills	Expertise in molecular biology techniques, skills in preparing libraries and reactions for Sanger Sequencers, PCR instruments, Real-Time, HRM.
Digital skills	Knowledge of R programming, UNIX, SHELL, principal software for statistics (JMP, SPSS) genetic and genomic analyses (Plink, VCFtools, Gapit, MEGA, TASSEL, Arlequin, Genealex, STRUCTURE)

Date
17/08/2023

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