

Giuseppe Martelli

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Giuseppe Martelli is currently an associate Professor at Science Department (DIS) of Basilicata University lecturing “Advanced Genetic Technologies” and “Genetic Biotechnology”.

His lines of research are mainly focused on:

- Genomic and transcriptomic characterization of genes involved in the biosynthesis of metabolites with pharmaceutical activities in plants.
- Genomic and transcriptomic characterization of genes involved in human disease (autoimmune genetic based disease).
- Development of new cultivars useful to improve agro-pharmaceutical production chain.
- Realization of innovative bio-tools applicable to biotechnological process development.

Currently the research is mainly focused on unicellular algae, to the aim to develop an efficient bioreactor capable to biosynthesize different classes of compounds.

He has expertise in genome analysis, RNA analysis, cell manipulation, molecular biology techniques, breeding and selection direct to create new plant genotypes.

He was speaker in national and international symposia.

Prof. Martelli has been coordinator and/or he has held a role of responsibility in several national and international research projects.

He is co-inventor of three patents (strawberry cultivar).

He is board member of the PhD Doctorate in Applied Biology and Environmental Safeguard, Department of Science, University of Basilicata, Potenza, Italy.

Prof. Giuseppe Martelli from 2015 is member of the spin-off commission at Basilicata University.

Five selected publications

- 1) Maria Carmela Padula, Pietro Leccese, Nancy Lascaro, Rosa Paola Radice, Antonina Rita Limongi, Giusi Gaia Sorrento, Teresa Carbone, Angela Anna Padula, Giuseppe Martelli, and Salvatore D'Angelo “**Correlation of Tumor Necrosis Factor- α -308G>A Polymorphism with Susceptibility, Clinical Manifestations, and Severity in Behçet Syndrome: Evidences from an Italian Genetic Case–Control Study**” DNA AND CELL BIOLOGY 39 (2020): 1104–1110; doi: <http://dx.doi.org/10.1089/dna.2020.5361>
- 2) Maria Carmela Padula, Pietro Leccese, Nancy Lascaro, Teresa Carbone, Antonina Rita Limongi, Rosa Paola Radice, Angela Anna Padula, Salvatore D'Angelo, Giuseppe Martelli. “**From structure to function for the characterization of ERAP1 active site in Behçet syndrome. A novel polymorphism associated with known gene**

- variations**". Molecular Immunology 117 (2019): 155-159; doi: <https://doi.org/10.1016/j.molimm.2019.11.005>
- 3) Luana Calabrone, Giuseppe Martelli, Gabriela Mazzanti, Annabella Vitalone - **"Genomic Study, Phytochemical Characterization, and Antiproliferative Activity of Two Different Genotypes of *Jatropha curcas* L. Obtained by a Breeding Program"** - Appl. Sci. 9 (2019) 4373; doi: <https://doi.org/10.3390/app9204373>
 - 4) Paolo Convertini, Simona Todisco, Francesco De Santis, Ilaria Pappalardo, Dominga Iacobazzi, Maria Antonietta Castiglione Morelli, Yvonne N. Fondufe-Mittendorf, Giuseppe Martelli, Ferdinando Palmieri, Vittoria Infantino – **"Transcriptional Regulation Factors of the Human Mitochondrial Aspartate/Glutamate Carrier Gene, Isoform 2 (SLC25A13): USF1 as Basal Factor and FOXA2 as Activator in Liver Cells"** - *Int. J. Mol. Sci.* 2019, 20(8), 1888; doi: <http://dx.doi.org/10.3390/ijms20081888>
 - 5) Kiryakova Yulia, Padula Maria Carmela, Rossano Rocco, Martelli Giuseppe – **"Effect of boron and zinc application on HXK1 and MAKR6 gene expression in strawberry"** - *Emirates Journal of Food and Agriculture* 2016 28(5): 317-325; doi: <https://doi.org/10.9755/ejfa.2016-02-178>