

NAME Angelo Santino	e-mail: angelo.santinoispa.cnr.it
ROLE: Researcher	UOS: Lecce
Education and training (Max. 300 characters including spaces)	
<p>He graduated in biological science in 1988. In 1990-91 he was fellow at the Istituto Biosintesi Vegetali CNR, Milan (24 months) and at the Institute of Natural Resources Institute, Chatham Maritime, UK (6 months). More recently, he was visiting scientist at relevant European scientific institutions (John Innes Centre, Norwich, UK; Institut des Sciences du Vegetal, Centre National de la Recherche Scientifique, Gif Sur Yvette, France; A.N. Bakh Institute of Biochemistry, Moscow, Russia; Institut de Biologie Moleculaire des Plantes-CNRS, Strasbourg).</p>	
Skills and competences (Max. 300 characters including spaces)	
<p>His main research topics deal with the improvement of the quality and nutritional value of fruits and vegetables; biological activity and stabilisation of phytochemicals; plant response to (a)biotic stresses. His skills are related to plant biochemistry/molecular biology and biotechnology.</p>	
Main research projects (participation and responsibility)	
(Max. 1200 characters including spaces)	
<ul style="list-style-type: none"> • Nov 2011-2015; PON project entitled: "Innovative technological and clinical protocols for functional foods production (Protocolli tecnologici e clinici innovativi per la produzione di alimenti funzionali; Pro.Ali.Fun.)" funded by MIUR; • Nov 2011-2015 PON project entitled: "Innovative tools to improve food security (Strumenti Innovativi per il Miglioramento della Sicurezza Alimentare: Prevenzione, Controllo, Correzione; Si.Mi.Sa.)" funded by MIUR; • 2009-2015; project entitled: "Bioenergy for sustainable development in semi-marginal and marginal areas of South Italy (SOBIMA); funded by: the Italian Ministry of Agriculture and Forestry; • 2005-2009; project entitled: "Valorisation of Southern Italy fruit farming (FRUMED)"; funded by: the Italian Ministry of Agriculture and Forestry; • 2005-2006; project entitled: "Biochemical mechanism of hazelnut rancidity and impacts on quality"; funded in the framework of the CNR-TUBITAK agreement; • 2004-2006; project entitled: "Establishing a universal system for detection of kunitz-type proteinase inhibitor genes in potato"; NATO-Russia joint scientific and technological cooperation 980102; ente finanziatore: NATO. 	
No of Publications	H-Index (Google scholar)
61	19
Patents	
Project evaluation & Referee activities (Max. 300 characters including spaces)	
<p>Referee of the Italian Ministry of Education, Universities and Research (MIUR); Referee and rapporteur of the Romanian Research Council; Referee of the Croatian Science Foundation.</p>	
Other (Max. 300 characters including spaces)	
<p>Member of the Editorial Board of the Journal of Plant Biochemistry and Physiology; Referee of Analytical Chemistry; BBA; BMC Plant Biology; Phytochemistry; Plant Physiology and Biochemistry; Food Science and Technology; Plant Cell Reports; Molecular Biotechnology.</p>	
Awards and other recognitions	

Main Publications 2011-2015

1. D Zhang Y., Butelli E., Alseekh S. Tohge T., Rallapalli G., Luo J., Kwar P.G., Hill L., Santino A., Fernie A.R., Martin C. 2015. Multi-level Engineering Facilitates the Accumulation of Bioactive Compounds in Tomato. *Nature Comm.* DOI: 10.1038/ncomm9635. (IF: 11.47)
2. Del Vecchio F., Vadrucci E., Cavalcanti E., De Santis S., Vacca M., Myers J., Frederick A., Bianco G., Huang A., Monsurro V., Santino A.*, Chieppa M.* 2015. Polyphenol Administration Impairs T cells Proliferation by Imprinting a Distinct Dendritic Cell Maturation Profile, *Eur J. Immunol.* DOI: 10.1002/eji.201545679. (IF: 4.08)
3. Taurino M., Ingrosso I., D'amico L., De Domenico S., Nicoletti I., Corradini D., Santino A., Giovinazzo G. 2015. Jasmonates elicit different sets of stilbenes in *Vitis vinifera* cv. Negramaro cell cultures. *Springer plus*, 1: 49 doi:10.1186/s40064-015-0831-z
4. Bettini S., Santino A., Valli L., Giancane G. 2015. A Smart Method for the Fast and Low-Cost Removal of Biogenic Amines from Beverages by Means of Iron Oxide Nanoparticles. *RSC Adv.* 5: 18167-18171. (IF: 3.84)
5. Grassi F., Mastroianni M., Mininni C., Parente A., Santino A., Scarcella M., Santamaria P. 2015. Poseidon residues can be used as organic mulch and amendment for lettuce and tomato production. *Agron. Sustain. Dev.* DOI: 10.1007/s13593-014-0268-8. (IF: 3.992)
6. Vergara D., Ferraro MM, Cascione M, Del Mercato LL, Leporatti S, Ferretta A, Tanzarella P, Pacelli C, Santino A, Maffia M, Cocco T, Rinaldi R, Gaballo A. 2014. Cytoskeletal Alterations and Biomechanical Properties of parkin-Mutant Human Primary Fibroblasts. *Cell Biochem Biophys.* DOI: 10.1007/s12013-014-0362-1. (IF: 1.68)
7. Cavalcanti E, Vadrucci E, Delvecchio F, Addabbo F., Bettini S., Liou H.-L.R., Monsurro V., Huang A., Pizarro TT., Santino A*, and Chieppa M.* 2014. Administration of reconstituted polyphenol oil bodies efficiently suppresses dendritic cell inflammatory pathways and acute intestinal inflammation. *PLoS One* 9: e88898.
8. Paradiso A, D'Amico L, Nicoletti I, Santino A, De Gara L, Giovinazzo G. 2013. Resveratrol Biosynthesis Up-Regulates the Ascorbate/Glutathione Pathway in Transgenic Tomato Fruit. *J Plant Biochem Physiol* 1:105.
9. Taurino M., De Domenico S., Bonsegna S. and Santino A. 2013. The Hydroperoxide Lyase Branch of the Oxylipin Pathway and Green Leaf Volatiles in Plant/Insect Interaction *J Plant Biochem Physiol* 1:1.
10. Santino A., Taurino M., De Domenico S., Bonsegna S., Poltronieri P., Pastor V., Flors V. 2013. Jasmonate signaling in plant development and defense response to multiple (a)biotic stresses. *Plant Cell Rep.* 32: 1085-1098.
11. Bettini S., Vergara D., Bonsegna S., Toto C., Chieppa M, Maffia M., Giovinazzo G., Valli L., Santino A. 2013. Efficient stabilization of natural curcuminoids mediated by oil bodies encapsulation. *RSC advances*, 3:542-5429.
12. Krinitsyna A.A., Mel'nikova N.V., Belenikin M.S., Poltronieri P., Santino A., Kudryavtseva A.V., Savilova A.M., Speranskaya A.S. 2013. Polymorphism of KPI-A genes from plants of the subgenus *Potatoe* (sect. *Petota*, *Estolonifera* and *Lycopersicum*) and subgenus *Solanum*. *Mol. Biol* 47: 405-412.
13. Ciarmiello L.F., Piccirillo P., Gerardi C., Piro F., De Luca A., D Imperio F., Rosito V., Poltronieri P., Santino A. 2013. Microwave Irradiation for Dry-Roasting of Hazelnuts and Evaluation of Microwave Treatment on Hazelnuts Peeling and Fatty Acid Oxidation. *J. Food Res.* 2: 22-35.
14. De Lorenzis E., Manera M.G., Montagna G., Cimaglia F., Chiesa M., Poltronieri P., Santino A., Rella R. 2013. SPR based immunosensor for detection of *Legionella pneumophila* in water samples. *Optics Comm.* 294: 420-426 (IF 1.438; Q2 in Atomic and molecular physics and optics).
15. Giovinazzo G., Ingrosso I., Paradiso A., De Gara L., Santino A. 2012. Resveratrol Biosynthesis: Metabolic Engineering for Nutritional Improvement of Food. *Plant Foods Hum Nutr* 67:191-199.
16. De Domenico S., Stefania Bonsegna S., Horres R., Pastor V., Taurino M., Poltronieri P. Imtiaz M., Kahl G., Flors V., Winter P. Santino A. 2012. Transcriptomic analysis of oxylipin biosynthesis genes and chemical profiling reveal an early induction of jasmonates in chickpea roots under drought stress. *Plant Physiol. Biochem.* 61:115-122.
17. Gerardi C., Blando F., Santino A. 2012. Purification and chemical characterisation of a cell wall-associated β -galactosidase from mature sweet cherry (*Prunus avium* L.) fruit. *Plant Physiol. Biochem.* 61: 123-130.
18. Poltronieri P., Santino A. 2012. Non coding RNAs in intercellular and systemic signalling. *Front. Plant Sci.* 3: 141.
19. Poltronieri P, Shaoyang L., Cimaglia F., Santino A., Wang Y. 2012. Characterization of Kunitz-type inhibitor B1 performance using protein chips and AFM. *Sensor Actuators B, Chemical* 168: 231–237.
20. Speranskaya A.S., Krinitsina A.A., Kudryavtseva A.V., Poltronieri P., Santino A., Oparina N.Y., Dmitriev A.A.; Belenikin M.S., Guseva M.A., Shevelev A.B. 2012. Impact of recombination on polymorphism of genes encoding Kunitz-type protease inhibitors in *Solanum* genus. *Biochimie* 94:1687-1696.
21. Bettini S., Valli L., Santino A., Martinelli C., Farinola G.M., Cardone A., Sgobba V., Giancane G. 2012. Spectroscopic investigations, characterization and chemical sensor application of composite Langmuir–Schäfer films of anthocyanins and oligophenylenevinylene derivatives. *Dyes and Pigments* 94: 156-162.
22. Vergara D., Simeone P., Toraldo D., Del Boccio P., Vergaro V., Leporatti S., Pieragostino D., Tinelli A., De Domenico S., Alberti S., Urbani A., Salzet M., Santino A., Maffia M. 2012. Resveratrol downregulates Akt/GSK and ERK signalling pathways in OVCAR-3 ovarian cancer cells. *Mol Biosyst.* 8:1078-1087.
23. Cimaglia F., Aliverti A., Chiesa M., Poltronieri P., De Lorenzis E., Santino A., Sechi L.A. 2012. Quantum dots nanoparticle-based lateral flow assay for rapid detection of *Mycobacterium* species using anti-FprA antibodies. *Nanotechnol. Develop.* 2: e5.
24. De Domenico S., Bonsegna S., Lenucci M.S., Poltronieri P., Di Sansebastiano G.P., Santino A. 2011. Localization of seed oil body proteins in tobacco protoplasts reveals specific mechanisms of protein targeting to leaf lipid droplets. *J Integr Plant Biol.* 53:858-68.
25. Ingrosso I., Bonsegna S., De Domenico S., Laddomada B., Blando F., Santino A., Giovinazzo G. 2011. Over-expression of a grape stilbene synthase gene in tomato induces parthenocarpy and causes abnormal pollen development. *Plant Physiol Biochem.* 49:1092-
26. Vergara D, Valente CM, Tinelli A, Siciliano C, Lorusso V, Aciermo R, Giovinazzo G, Santino A., Storelli C, Maffia M. 2011. Resveratrol inhibits the epidermal growth factor-induced epithelial mesenchymal transition in MCF-7 cells. *Cancer Lett.* 310: 1-8.
27. Poltronieri P., Bonsegna S., De Domenico S., Santino A. (2011). From roots to leaves and backward. Overview on the abiotic stress signalling in plants. *Field and Vegetable Crops Research* 48:15-24.

*Corresponding author.

Citations were obtained from google scholar.