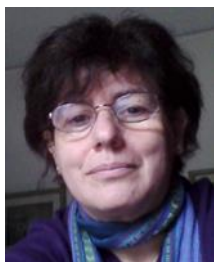


Curriculum Vitae Europass



Informazioni personali

Nome / Cognome

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Academic positions/ Professional fields

Since 2014 Associate professor of Plant Physiology at the University of Verona, Department of Biotechnology.

Since 2023, Member of the committee for monitoring tutoring service. University of Verona
Since 2021, the Biotechnology Department representative in the AQ committee for teaching. University of Verona.

2017 up to present member of the Teachers' Committee, PhD Program in Biotechnologies, Doctoral School on Natural and Engineering Sciences

2006 -2016 member of the Teachers' Committee, PhD Program in Applied Biotechnologies.

2019 co-delegate for Teaching of the University of i Verona

2016- 2019 coordinator of the Degree course in Biotechnology University of Verona

2012 -2015 Representative of the Assessment Centre -"saperi minimi" in the Area of Natural and Engineering Sciences -University of Verona.

1984 Professional qualification as biologist and up to present member of the National Order of Biologists

Professional experience

Since November 2014 Associate professor of Plant Physiology at the University of Verona, Department of Biotechnology.

November 2000-2014 Researcher (Assistant Professor) of Plant Physiology at the University c Verona, Department of Biotechnology.

February 1997- October 2000 Research technician, Department of Biotechnology, Faculty of Sciences, University of Verona.

1996 Fellowship at the Faculty of Sciences University of Verona.

December 1989-January 1997 Chief technician at the Laboratory of Plant Physiology, Department of Plant Biology, Faculty of Sciences, University of Florence.

1983-1984 Practical training for professional qualification at the Institute of Biochemistry and Institute of Plant Physiology, University of Florence.

1984 Fellowship (granted by the Ministry of Education) at the Institute of Plant Physiology, University of Wien (Prof H. Kinzel).

Education

1986 Postgraduate specialization in Plant Ecology and Environmental Planning, University of Pavia, Italy (mark 70/70).
1981 Degree in Biology with honours (110 /110 cum laude), University of Florence, Italy.
High school diploma, qualification in scientific studies

Teaching

2020 up to present teacher of “Biotechnology of fruit crops”- Master’s Course in Agri-food Biotechnology, University of Verona
2015 up to present teacher of “Plant Physiology” – Bachelor’s Course in Biotechnology, University of Verona.
2008 up to present teacher of “Plant Physiology” – Bachelor’s Course in Viticultural and Oenological Science and Technology, University of Verona.
2010 -2016 teacher in PhD program in Applied Biotechnologies, University of Verona.
2009-2019 teacher of Crop Physiology – Master’s Course in Agroindustrial Biotechnology.
2007-2008 teacher of “Molecular Technologies in Viticulture” – Bachelor’s Course in Viticultural and Oenological Science and Technology, University of Verona.
2005- 2009 teacher of “Gene design and DNA microarray” – Master’s Course in Industrial and Molecular Biotechnology, University of Verona.
2004--2008 teacher of General Molecular Biology - Course in Agroindustrial Biotechnology, University of Verona.
2003-2004 teacher of Genetic Biotechnology - Course in Agroindustrial Biotechnology, University of Verona.

Professional activities and competence

2020 up to present Member of the Senior Editorial Board of BMC Research Notes.
 2018 up to present Member of the Editorial Board of the journal Genes.
<https://www.mdpi.com/journal/genes/sectioneditors/MGG>
 2016 Cost Action CA15223 MC (Management Committee) substitute member Project Title: Modifying plants to produce interfering RNA Project acronym: (iPlanta)
 Associate Editor of Frontiers in Plant Science –Research Topic Advances in genetic engineering strategies for fruit crop breeding (Co-editor Bruno Mezzetti, Kevin Folta).
 2008 -2020 Associated Editor of BMC Research Notes
 Research project reviewing activity for National Science Foundation (NSF), International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, the Italian Ministry of Education, University and Research (MIUR) and Research for Innovation (REFIN), Dutch Research Council (NOW).
 Reviewing activity for international scientific journals, among them: Plant Physiology, Nature Communications, BMC Plant Biology, New Phytologist, Plant Science, Molecular Breeding, Plant Cell Reports, Frontiers in Plant Science, Plant Physiology and Biochemistry, Journal of Plant Physiology, BMC Research Notes, Current Pharmaceutical Design, Phytochemistry, International Journal of Molecular Science, Plants.
 Supervisor of numerous PhD thesis at the University of Verona and Università Politecnica delle Marche bachelor and master thesis at the University of Verona and University of Florence.
 Reviewer and member Committee for PhD thesis, University of Padua, University of Trento, Università Politecnica delle Marche.
 Member of SIBV (Italian Society of Plant Biology) and FESPP (Federation of European Societies of Plant Physiology), International Society for Molecular Plant-Microbe Interactions (IS-MPMI) American Chemical Society (ACS).
 Fields of research activity:
 - molecular mechanisms regulating fleshy fruits development, identification of regulatory peptides involved in tomato fruit set;
 - obtainment of parthenocarpic fruit development in horticultural species by genetic engineering.
 - study of plant miniproteins with potential therapeutic effects;
 - molecular mechanisms associated with the first phases of the symbiotic interaction between N-fixing bacteria and legumes;
 - induction of virus resistance in plants by RNA interference;
 - mechanisms of actions of protein hydrolysates with plant biostimulant properties.

Invited Lectures/Seminars

2024 CRA-GPG (Centro di Ricerche Genomica e Bioinformatica) “BBX microProteins: their involvement in tomato reproductive development.”
 2021 Webinar “Small Bioactive molecules as tools for sustainable agriculture” seminario “Cystine-knot peptides and tomato fruit development”
 2019 Biostimulant World Congress “Exploring methodological approaches to study the mechanism of action of different components of protein hydrolysates produced by SICIT2000”
 2017 3rd World Congress on the use of Biostimulants in Agriculture, Miami (USA)
 “Transcriptome Analysis of Maize Roots in Response to Protein Hydrolysates and Free Amino Acids”
 CRA-GPG (Centro di Ricerche Genomica e Bioinformatica) 12th February 2016 Cystine-knot miniproteins of Solanaceae
 2015 2nd World Congress on the use of Biostimulants in Agriculture, Florence 16-19 th November “Action of protein hydrolysates on maize root growth: a molecular insight”.
 2015 International School of Pharmacology Course “Nutraceuticals” 26-30 September Erice (Sicily). “Plant peptides targeted to human receptors”.
 2015 Laboratoire des Interactions Plantes-Microorganismes (LIPM) CNRS/INRA Toulouse 26 June “Which role for lipid transfer proteins in *Medicago truncatula*-*Sinorhizobium meliloti* symbiosis?”.
 2011 CRA-GPG (Centro di Ricerche Genomica e Bioinformatica) Fiorenzuola d’Arda “Fruit development in horticultural plants: from functional genomics to biotechnology”.
 2011 2nd International Conference on Foodomics Cesena, Italy “Biological effects of tomato cystine-knot miniproteins in human endothelial cells”.
 2009 International Conference on Foodomics Cesena, Italy “Functional genomics of fruit development in horticultural plants”

Financed Projects

2024 AGRITECH Spoke 6 Innovative water saving approaches through the integration of genetic resources and systems for monitoring plant response and controlling soil conditions. (eTRAIT4H2O) Coordinator.

2022 iNEST Spoke 7 Use of exogenous double-stranded RNAs as new bioinsecticides for the control of phytophagous insects of agricultural interest. Scientific supervisor

2021 BIOTECH CREA Qualimec project “Improvement of quality properties in eggplant and artichoke by genome editing and cisgenesis approaches” Contract for specialized service.. Scientific supervisors: Tiziana Pandolfini, Barbara Molesini.

2019 Progetto di ricerca industriale e sviluppo sperimentale PNR 2015-2020 “Resilienza e Sostenibilità delle filiere ortofrutticole e cerealicole per valorizzare i territori” RESO (codice domanda ARS01_01224) Research Unit Leader.

2018- Joint Project Università di Verona-SICIT group “Effects and mode of action of novel plant biostimulants based on the use of humic substances and protein hydrolysates.” Participant.

PRIN -2017“Small RNAs and Peptides for controlling diseases and development in horticultural plants”. Research Unit Leader.

2016- Joint Project Università di Verona-SICIT 2000 “Improving protein hydrolysate formulations to increase their efficacy as crop biostimulants” Coordinator.

2016-COST ACTION CA15223 Modifying plants to produce interfering. MC (Management Committee) Substitute Member

2012-PRIN “Molecular strategies to gain resistance to Sharka viruses (PPV) in peach and apricot”. Research unit leader.

2012- joint Project Università di Verona-Vitroplant " Iron-chlorosis in grapevine: characterization of molecular and physiological rootstock responses and adaptation to calcareous soil environment", Participant.

2012-Joint Project Università di Verona-SICIT 2000 "Protein hydrolysates and crop performance: action mechanisms and novel applications". Coordinator

2011-Joint Project University of Verona-Copador “Pharmacokinetic and pharmacodynamic characterization of tomato cystine knot miniproteins”. Participant.

2010 FSE Project “Development of analytical methods for wine identification and traceability”. Coordinator.

2010-Join Project University of Verona-Unione Italiana Vini “Magnesium and grape nutrition: physiological and molecular characterization of uptake mechanisms in plants with different response to Mg starvation”. Participant.

2010-Joint Project University of Verona-Vitroplant, “Development of genetic methods for conferring virus resistance to *Vitis* spp. rootstocks and varieties”. Coordinator.

2009-2010 MIPAF PROM IV “Effects of symbiotic rhizobacteria on root growth of different lentil varieties.” Research unit leader.

2008-Joint Project Università di Verona-Unione Italiana Vini “Metodiche chimiche e molecolari innovative per la caratterizzazione dei meccanismi di nutrizione minerale della vite e lo studio degli effetti delle concimazioni e del terroir sulla qualità delle uve e del vino”. Participant.

2005-2009 MIPAF PROM project, “Leguminous plants and rhizobacteria-induced resistance”. Research unit leader.

2002-2004 PRIN (Research Projects of National Interest) project on “Expression profile analysis of *Medicago truncatula* during pathogenic and symbiotic interactions”. Research unit leader.

Publications

- Rodegher G, Ambrosini S, Pandolfini T, Zanzoni S, Zamboni A, Varanini Z. (2024) The simultaneous application of fulvic acid and protein hydrolysate biostimulants enhances cucumber responses to Fe deficiency. *Current Plant Biology*, 40,100411, <https://doi.org/10.1016/j.cpb.2024.100411>.
- Negri S, Commisso M, Pandolfini T, Avesani L, Guzzo F. (2024) Temperature and solar irradiation effects on secondary metabolism during ripening of field-grown everbearing strawberries. *Plant Physiol Biochem.* 215:109081. doi: 10.1016/j.plaphy.2024.109081. Epub ahead of print. PMID: 39222548.
- Capriotti L, Molesini B, Pandolfini T, Jin H, Baraldi E, Cecchin M, Mezzetti B, Sabbadini S. (2024) RNA interference-based strategies to control *Botrytis cinerea* infection in cultivated strawberry. *Plant Cell Rep.*;43(9):225. doi: 10.1007/s00299-024-03296-7. PMID: 39048858; PMCID: PMC11269516.
- Dusi V, Pennisi F, Fortini D, Atarés A, Wenkel S, Molesini B, Pandolfini T (2024) Involvement of the tomato BBX16 and BBX17 microProteins in reproductive development. *Plant Physiol Biochem.*;213:108873. doi: 10.1016/j.plaphy.2024.108873. Epub 2024 Jun 21. PMID: 38914037.
- Pandolfini T, Mezzetti B, Folta K. (2023) Editorial: Advances in genetic engineering strategies for fruit crop breeding, volume II. *Front Plant Sci.*;14:1264914. doi: 10.3389/fpls.2023.1264914. PMID: 37662176; PMCID: PMC10469301
- Molesini B, Pennisi F, Vitulo N, Pandolfini T. (2023) MicroRNAs associated with AGL6 and IAA9 function in tomato fruit set. *BMC Res Notes.* 16(1):242. doi: 10.1186/s13104-023-06510-z. PMID: 37777779; PMCID: PMC10544166.
- Capriotti L, Ricci A, Molesini B, Mezzetti B, Pandolfini T, Piunti I, Sabbadini S. (2023) Efficient protocol of *de novo* shoot organogenesis from somatic embryos for grapevine genetic transformation. *Front Plant Sci.*;14:1172758. doi: 10.3389/fpls.2023.1172758.
- Molesini B., Pennisi F., Cressoni C., Vitulo N., Dusi V., Speghini A., Pandolfini T. (2022) Nanovector-mediated exogenous delivery of dsRNA induces silencing of target genes in very young tomato flower buds. *Nanoscale Advances*, 4,4542. DOI: 10.1039/d2na00478j
- Ambrosini S, Prinsi B, Zamboni A, Espen L, Zanzoni S, Santi C, Varanini Z, Pandolfini T.(2022) Chemical Characterization of a Collagen-Derived Protein Hydrolysate and Biostimulant Activity Assessment of Its Peptidic Components. *J Agric Food Chem.*;70(36):11201-11211. doi: 10.1021/acs.jafc.2c04379. Epub 2022 Aug 30. PMID: 36039940; PMCID: PMC9479078.
- Pituello, C , Ambrosini S., Varanini Z., Pandolfini T., Zamboni A., Povoletto C., Agnoloni F., Franco E., Candido M.C., Neresini M. (2022). Animal-Derived Hydrolyzed Protein and Its Biostimulant Effects. In: Ramawat, N., Bhardwaj, V. (eds) *Biostimulants: Exploring Sources and Applications. Plant Life and Environment Dynamics*. Springer, Singapore. https://doi.org/10.1007/978-981-16-7080-0_5
- Molesini B., Pandolfini T. Exogenous Application of RNAs as a Silencing Tool for Discovering Gene Function (2021) *RNAi for Plant Improvement and Protection*, Eds Mezzetti B., Sweet J., Burgos L. CABI International pp. 14 - 24, DOI: 10.1079/9781789248890.0003.
- Ambrosini S, Segal D, Santi C, Zamboni A, Varanini Z, Pandolfini T. (2021) Evaluation of the Potential Use of a Collagen-Based Protein Hydrolysate as a Plant Multi-Stress Protectant. *Front Plant Sci.* 9;12:600623. doi: 10.3389/fpls.2021.600623.
- Molesini B, Dusi V, Pennisi F, Pandolfini T. (2020) How Hormones and MADS-Box Transcription Factors Are Involved in Controlling Fruit Set and Parthenocarpy in Tomato. *Genes (Basel).* 11(12):1441. doi: 10.3390/genes11121441.
- Molesini B, Dusi V, Pennisi F, Di Sansebastiano GP, Zanzoni S, Manara A, Furini A, Martini F, Rotino GL, Pandolfini T.(2020) TCMP-2 affects tomato flowering and interacts with BBX16, a homolog of the arabidopsis B-box MiP1b. *Plant Direct.* 2020;4(11) :e00283. doi: 10.1002/pld3.283.

- Manara A, Fasani E, Molesini B, DalCorso G, Pennisi F, Pandolfini T, Furini A. (2020) The Tomato Metalloprotease Inhibitor I, which Interacts with a Heavy Metal-Associated Isoprenylated Protein, Is Implicated in Plant Response to Cadmium Molecules 25(3):700. doi: 10.3390/molecules25030700.
- Santi C, Molesini B and Pandolfini T. (2019) Which role for *Medicago truncatula* non-specific lipid transfer proteins in rhizobial infection? In: The Model Legume *Medicago truncatula* (Editor de Bruijn F.J.) Chapter 9.2.5, pp.637-644, Wiley, Hoboken, USA.
- Livigni S, Lucini L, Segal D, Navacchi O, Pandolfini T, Zamboni A, Varanini Z. (2019) The different tolerance to magnesium deficiency of two grapevine rootstocks relies on the ability to cope with oxidative stress. BMC Plant Biol.19(1):148. doi: 10.1186/s12870-019-1726-x.
- Sabbadini S, Capriotti L, Molesini B, Pandolfini T, Navacchi O, Limera C, Ricci A, Mezzetti B. (2019) Comparison of regeneration capacity and Agrobacterium-mediated cell transformation efficiency of different cultivars and rootstocks of Vitis spp. via organogenesis. Sci Rep. 24;9(1):582. doi: 10.1038/s41598-018-37335-7-
- Davide Treggiari, Andrea Dalbeni, Alessandra Meneguzzi, Pietro Delva, Cristiano Fava, Barbara Molesini, Tiziana Pandolfini, Pietro Minuz (2018) Lycopene inhibits endothelial cells migration induced by vascular endothelial growth factor A increasing nitric oxide bioavailability Journal of Functional Foods 42, 312–318 doi.org/10.1016/j.jff.2018.01.020.
- Giampieri F, Gasparini M, Forbes-Hernandez TY, Mazzoni L, Capocasa F, Sabbadini S, Alvarez-Suarez JM, Afrin S, Rosati C, Pandolfini T, Molesini B, Sánchez-Sevilla JF, Amaya I, Mezzetti B, Battino M. (2018) Overexpression of the Anthocyanidin Synthase Gene in Strawberry Enhances Antioxidant Capacity and Cytotoxic Effects on Human Hepatic Cancer Cells. J Agric Food Chem. 24;66(3):581-592. doi: 10.1021/acs.jafc.7b04177.
- Molesini B, Rotino GL, Dusi V, Chignola R, Sala T, Mennella G, Francese G, Pandolfini T. (2018) Two metallopeptidase inhibitors are implicated in tomato fruit development and regulated by the Inner No Outer transcription factor. Plant Sci. 266:19-26. doi:10.1016/j.plantsci.2017.10.011.
- Santi C, Molesini B, Guzzo F, Pii Y, Vitulo N, Pandolfini T.(2017) Genome-Wide Transcriptional Changes and Lipid Profile Modifications Induced by *Medicago truncatula* N5 Overexpression at an Early Stage of the Symbiotic Interaction with *Sinorhizobium meliloti*. Genes (Basel). 2017 19;8(12). doi: 10.3390/genes8120396.
- Pii Y, Zamboni A, Dal Santo S, Pezzotti M, Varanini Z, Pandolfini T. (2017) Prospect on Ionomeric Signatures for the Classification of Grapevine Berries According to Their Geographical Origin. Front Plant Sci. 2017 8:640. doi: 10.3389/fpls.2017.00640.
- Santi C, Zamboni A, Varanini Z and Pandolfini T (2017). Growth stimulatory effects and genome-wide transcriptional changes produced by protein hydrolysates in maize seedlings. Front. Plant Sci. 8:433. doi: 10.3389/fpls.2017.00433 4.
- Treggiari D, Zoccatelli G, Chignola R, Molesini B, Minuz P, Pandolfini T. (2017) Tomato cystine-knot miniproteins possessing anti-angiogenic activity exhibit in vitro gastrointestinal stability, intestinal absorption and resistance to food industrial processing. Food Chem. 15;221:1346-1353.
- Molesini B, Treggiari D, Dalbeni A, Minuz P, Pandolfini T.(2017) Plant cystine-knot peptides: pharmacological perspectives. Br J Clin Pharmacol. 83(1):63-70.
- Molesini B, Zanzoni S, Mennella G, Francese G, Losa A, Rotino G. L, Pandolfini T. (2016) The *Arabidopsis* N-acetylornithine deacetylase controls ornithine biosynthesis via the linear pathway with downstream effects on polyamine levels. Plant Cell Physiol. doi:10.1093/pcp/pcw167.
- Dalbeni A, Treggiari D, Molesini B, Fava C, Pandolfini T, Minuz P (2016) Lycopene Increases Nitric Oxide Bioavailability And Inhibits Endothelial Cells Migration. Journal of Hypertension 34 Suppl 2: e24.
- Cirilli M, Geuna F, Babini AR, Bozhkova V, Catalano L, Cavagna B, Dallot S, Decroocq V, Dondini L, Foschi S, Ilardi V, Liverani A, Mezzetti B, Minafra A, Pancaldi M, Pandolfini T,

- Pascal T, Savino VN, Scorza R, Verde I, Bassi D. (2016) Fighting Sharka in Peach: Current Limitations and Future Perspectives. *Front Plant Sci.* 30;7:1290.
- Pandolfini T., Santi C., Zamboni A., De Cicco C., Molesini B., Varanini Z. (2015) Action of protein hydrolysates on maize root growth: a molecular insight. 2nd World Congress on the use of Biostimulants in Agriculture, Florence 16-19 th November 2015.
- Treggiari D, Zoccatelli G, Molesini B, Degan M, Rotino GL, Sala T, Cavallini C, MacRae CA, Minuz P, Pandolfini T. (2015) A cystine-knot miniprotein from tomato fruit inhibits endothelial cell migration and angiogenesis by affecting vascular endothelial growth factor receptor (VEGFR) activation and nitric oxide production. *Mol Nutr Food Res.* 59, 2255–2266.
- Molesini B., Mennella G., Martini F., Francese G., Pandolfini T. (2015) Involvement of the putative N-acetylornithine deacetylase from *Arabidopsis thaliana* in flowering and fruit development *Plant Cell Physiol.* doi:10.1093/pcp/pcv030.
- Sabbadini S., Pandolfini T., Girolomini L., Molesini B, Navacchi O. (2015) Peach (*Prunus Persica* L.) *Agrobacterium* Protocols: Volume 2, Methods in Molecular Biology, vol. 1224, 205-215.
- Molesini B., Cecconi D., Pii Y., Pandolfini T. (2014). Local and systemic proteomic changes in *Medicago truncatula* at an early phase of *Sinorhizobium meliloti* infection. *Journal of Proteome Research* 13, 408- 421.
- Lemgo G.N., Sabbadini S., Pandolfini T., Mezzetti B. (2013). Biosafety considerations of RNAi-mediated virus resistance in fruit-tree cultivars and in rootstock. *Transgenic Research* 22, 1073-1088.
- Pandolfini T., Molesini B., Spena A. (2013) AUCSIA An ancestral green plant miniprotein and the emergence of auxin transport. *Plant Signaling & Behavior* 8 (2):e22928, 1- 5.
- Pii Y., Molesini B., Pandolfini T. (2013) The involvement of *Medicago truncatula* non-specific lipid transfer protein N5 in the control of rhizobial infection. *Plant Signaling & Behavior* 8 (7): e24836. 1- 4.
- Pii Y., Molesini B., Pandolfini T. (2013). The non-specific lipid transfer protein N5 of *Medicago truncatula* is required for efficient nodulation during symbiosis with N-fixing rhizobia. XVII. International Plant Nutrition Colloquium and Boron Satellite Meeting Proceedings Book 19-22 August Istanbul, Turkey <http://www.plantnutrition.org/files/downloads/2013ipnc-b-proceedings.pdf> .
- Treggiari D., Molesini B., Zoccatelli G., Degan M., Pandolfini T., Minuz P. (2012). Tomato cystine-knot miniproteins: purification and new insights into the molecular mechanisms of their anti-angiogenic properties. Proceedings of the British Pharmacological Society. BPS Winter Meeting 18-20 December London UK. http://www.pA2online.org/abstracts/Vol10Issue4ab_st148P.pdf.
- Pii Y., Molesini B., Masiero S., Pandolfini T. (2012). The non-specific lipid transfer protein N5 of *Medicago truncatula* is implicated in epidermal stages of rhizobium-host interaction. *BMC Plant Biology* 12, 1- 13 <http://www.biomedcentral.com/1471-2229/12/233>
- Molesini B.*, Pandolfini T.*, Pii Y., Korte A., Spena A. (2012) *Arabidopsis thaliana* AUCSIA-1 regulates auxin biology and physically interacts with a kinesin-related protein. *PLOS ONE* 7, e41327,1-17. *Equal contribution.
- Molesini B., Pii Y., Pandolfini T. (2012) Fruit improvement using intragenesis and artificial microRNA. *Trends In Biotechnology* 30, 80- 88.
- Girolomini L., Sabbadini S., Mezzetti B., Palma D. Pandolfini T., Polverari A. (2012) Regeneration and genetic transformation of different cultivars of *Vitis vinifera* and *Prunus persica*. *Acta Hort. (ISHS)* 929, 393-396.
- Cavallini C., Trettene M., Degan M., Delva P., Molesini B., Minuz P.*, Pandolfini T.* (2011) Anti-angiogenic effects of two cystine-knot miniproteins from tomato fruit. *British Journal of Pharmacology* 162, 1261- 1273. *Equal Contribution

Acciarri N., Restaino F., Vitelli, G Perrone D., Zottini M., Pandolfini, T., Spena A., Rotino G.L. (2011) Genetically modified parthenocarpic eggplants: Improved fruit productivity under both greenhouse and open field cultivation In Genetic Engineering: Recent Developments in Applications pp. 121-132.

Rotino G.L., Acciarri N., Sabatini E., Mennella G., Lo Scalzo R., Maestrelli A., Molesini B., Pandolfini T., Scalzo J., Mezzetti, B., Spena, A. (2011) Open field trial of genetically modified parthenocarpic tomato: Seedlessness and fruit quality in Genetic Engineering: Recent Developments in Applications pp. 160-174

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Pii Y., Astegno A., Peroni E., Zaccardelli M., Pandolfini T.*, and Crimi M. (2009) The *Medicago truncatula* N5 gene encoding a root-specific lipid transfer protein is required for the symbiotic interaction with *Sinorhizobium meliloti* . MPMI 22, 1577- 1587. *Corresponding author

Pandolfini T. (2009). Seedless fruit production by hormonal regulation of fruit set. Nutrients.1, 168- 177.

Pandolfini T., Molesini B. and Spena A. (2009) Parthenocarpy in crops. In: Fruit Development and Seed Dispersal, Annual Plant Reviews, (Ostergaard, L., Ed.); Wiley-Blackwell, Oxford, UK, Volume 38, pp.326–345.

Molesini B., Rotino G.L., Spena A., Pandolfini T. (2009) Expression profile analysis of early fruit development in *iaaM*-parthenocarpic tomato plants. BMC Research Notes 2, 143
<http://www.biomedcentral.com/1756-0500-2-143>.

Molesini B *, Pandolfini T*, Rotino GL, Dani V, Spena A. (2009) Aucsia gene silencing causes parthenocarpic fruit development in tomato. Plant Physiol 149(1), 534-48. *Equal contribution.

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Pii Y., Crimi M., Cremonese G., Spena A., Pandolfini T. (2007) Auxin and nitric oxide control indeterminate nodule formation. BMC Plant Biology 7:21 <http://www.biomedcentral.com/1471-2229/7/21>

Rotino GL, Acciarri N, Sabatini E, Mennella G, Lo Scalzo R, Maestrelli A, Molesini B, Pandolfini T, Scalzo J, Mezzetti B, Spena A. (2005) Open field trial of genetically modified parthenocarpic tomato: seedlessness and fruit quality. BMC Biotechnology, 5(1):32
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Mezzetti B., Landi L., Pandolfini T., Spena A. (2004) The defH9-iaaM auxin-synthesizing gene increases plant fecundity and fruit production in strawberry and raspberry. BMC Biotechnology 4:4. <http://www.biomedcentral.com/1472-6750/4/4>

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Pandolfini T., Molesini B., Avesani L., Spena A., Polverari A. (2003) Expression of self-complementary hairpin RNA under the control of the *rolC* promoter confers systemic disease resistance to plum pox virus without preventing local infection. BMC Biotechnology 3:7.
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