

CURRICULUM VITAE

EDUCATION AND PROFESSIONAL QUALIFICATION

1981 Degree in Biology with honours (110 /110 cum laude), University of Florence, Italy.

1986 Postgraduate specialization in Plant Ecology and Environmental Planning, University of Pavia, Italy (mark 70/70).

1984 Professional qualifying examination for biologists to become member of the National Order of Biologists.

ACADEMIC CARRIER

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

National Scientific Qualification for Associate Professor of Plant Physiology.

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

February 1997- October 2000 Research technician, Department of Biotechnology, 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.

ISTITUTIONAL APPOINTMENTS

2013-2015 Representative Centro Docimologico-saperi minimi, Area Scienze Naturali ed Ingegneristiche University of Verona.

2016 up to now Representative of the Degree course in Biotechnology University of Verona.

POSTGRADUATE TRAINING AND FELLOWSHIPS

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).

1996 Fellowship at the Faculty of Sciences University of Verona.

RESEARCH ACTIVITY

University of Florence- laboratory of Plant Physiology, Faculty of Sciences.

1989 to 1996 studies on the mechanisms of metal tolerance and primary and secondary toxic effects of heavy metals in higher plants, focusing on nickel tolerance and toxicity.

University of Verona – Department of Biotechnology, Faculty of Sciences.

1997 up to the present research activity in the fields of plant genetic engineering and molecular biology.

Main achievements in the fields of plant genetic engineering and plant molecular biology

- Genetic engineering of parthenocarpic development of the fruit in several horticultural crops (tomato, eggplant, strawberry and raspberry) by the expression of auxin synthesising chimeric genes in the ovules and placenta.
- Improvement of fecundity in grape and strawberry by increasing auxin content of flower buds and berries.
- Identification of genes differentially expressed during early stages of tomato fruit development by cDNA-AFLP and Real-Time RT-PCR analysis.

- Identification of AUCSIA genes involvement in tomato fruit initiation and polar auxin transport in tomato and *Arabidopsis thaliana*.
- Demonstration of the involvement of a putative N-acetylornithine deacetylase from *Arabidopsis thaliana* in flowering and fruit development.
- Identification of *in vitro* and *in vivo* anti-angiogenic properties of cystine-knot peptides of tomato.
- Development of hairpin constructs for gene silencing: obtainment of systemic resistance to Plum Pox Virus by RNA interference;
- Demonstration of the promoter activity played by the spliceosomal intron of the rolA gene in agrobacteria and rhizobia.
- Demonstration of the regulatory activity played by auxin and nitric oxide in the indeterminate nodule formation using IAA-overproducing rhizobia.
- Demonstration that a *Medicago* gene coding for a lipid transfer protein is required for the efficient production of N-fixing nodules.
- Identification of *Medicago truncatula* genes involved in the systemic response to rhizobia.
- Identification of the transcriptional changes associated to the promoting effects of protein hydrolysate treatment on root growth.

Expertise in the field of RNA silencing and genetically modified plants

- Plant genetic transformation via *Agrobacterium tumefaciens*.
- Molecular characterization of GM plants to assess the transgenic state, the number of transgene insertions, expression of the transgene.
- Design and preparation of constructs for plant gene silencing and overexpression.
- RNAi application to gene function discovery.

FINANCED RESEARCH PROJECTS

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

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

2012-PRIN “Molecular strategies to gain resistance to Sharka viruses (PPV) in peach and apricot”. **responsible** of the research unit.

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

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

2011-Joint Project University of Verona-Copador **partecipant** to the project on “Pharmacokinetic and pharmacodynamic characterization of tomato cystine knot miniproteins”.

2010 FSE Project , **responsible** of the project on “Development of analytical methods for wine identification and traceability”.

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

2009-Joint Project University of Verona-Vitroplant, **coordinator** of the project on “Development of genetic methods for conferring virus resistance to *Vitis* spp. rootstocks and varieties” .

2009-2010 MIPAF PROM IV project **responsible** of the research unit “Effects of symbiotic rhizobacteria on root growth of different lentil varieties.”

2005-2009 MIPAF PROM project, responsible of the research unit “Leguminous plants and rhizobacteria-induced resistance”.

2002-2004 PRIN (Research Projects of National Interest) project on “Expression profile analysis of *Medicago truncatula* during pathogenic and symbiotic interactions”, **responsabile** of the research unit of Verona

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

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).

EDITORIAL AND REVIEWING ACTIVITY

Reviewing activity for international scientific journals: BMC Plant Biology, Plant Science, Journal of Plant Physiology, New Phytologist, Plant Cell Reports, Plant Physiology and Biochemistry BMC Research Notes, Current Pharmaceutical Design, Molecular Breeding, Phytochemistry, Nucleic Acids Research.

Research project reviewing activity for NFS, International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste and the Italian Ministry of Education, University and Research (MIUR).

2008 up to present Associated Editor of BMC Research Notes

Associate Editor of Frontiers in Plant Science –Research Topic Advances in genetic engineering strategies for fruit crop breeding (Co-editor Bruno Mezzetti, Kevin Folta).

TEACHING ACTIVITY

2003-2004 teacher of **Genetic Biotechnology** -Degree Course in Agroindustrial Biotechnology

2004--2008 teacher of **General Molecular Biology** - Degree Course in Agroindustrial Biotechnology

2005- 2009 teacher of “**Gene design and DNA microarray**” - Degree Course in Industrial and Molecular Biotechnology.

2007-2008 teacher of “**Molecular Technologies in Viticulture**” - Degree Course in Viticultural and Oenological Science and Technology

2008 up to present teacher of “**Plant Physiology**” - Degree Course in Viticultural and Oenological Science and Technology and Degree Course in Biotechnology.

2009 up to present teacher of **Crop Physiology** - Degree Course in Agroindustrial Biotechnology.

2006 -2016 member of the Teachers’ Committee, PhD Program in Applied Biotechnologies, Graduate School of Sciences Engineering and Medicine, University of Verona

2010 -2016 teacher in PhD program in Applied Biotechnologies.

2017 member of the Teachers’ Committee, PhD Program in Biotechnologies, Graduate School of Sciences Engineering and Medicine, University of Verona.

SELECTED PUBLICATIONS

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

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 (oral presentation).

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, 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.

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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 (oral presentation).

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.* 56(6):1084-96.
- 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., Spina 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/Vol10Issue4abst148P.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., Spina 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

Pii Y., **Pandolfini T.**, Crimi M. (2010). Signaling LTPs. A new plant LTPs sub-family?. *Plant Signaling & Behavior* 5, 1- 4.

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.

Rotino G.L., **Pandolfini T.**, Lo Scalzo R., Sabatini E., Fibiani M., Spena A. (2008) Field trials of genetically modified tomato: fruit quality and productivity. In: *Tomatoes and Tomato Products* (Preedy V.R. and Watson R.R. eds) Science Publishers, Enfield (NH) pp 47-66.

Pandolfini T., Molesini B., Spena A. (2007) Molecular dissection of the role of auxin in fruit initiation. *Trends in Plant Science* 12(8), 327-329.

Costantini E., Landi L., Silvestroni O., **Pandolfini T.**, Spena A., Mezzetti B (2007) Auxin synthesis-encoding transgene enhances grape fecundity. *Plant Physiol* 143, 1689-1694.

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 <http://www.biomedcentral.com/1472-6750/5/32>.

Mezzetti, B., Silvestroni, O., Costantini, E., **Pandolfini, T.** and Spena, A. (2005). Genetic transformation of table grape via organogenesis and field evaluation of DEFH9-IAAM transgenic plants. *Acta Hort.* (ISHS) 689:463-468.

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>

Mezzetti B., Costantini E., Chionchetti F., Landi L., **Pandolfini T.**, Spena A. (2004). Genetic transformation in strawberry and raspberry for improving plant productivity and fruit quality. Acta Hort. 649, 107-110.

Spena A., **Pandolfini T.**, Lo Scalzo R., Maestrelli A., Rotino G.L., Mennella G., Acciarri N., Sabatini E., Scalzo J. E Mezzetti B. (2004) Valutazioni biochimiche ed agronomiche in pomodoro da industria ingegnerizzato per il carattere partenocarpia. Atti XXII Convegno nazionale SICA, 269-276.

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. <http://www.biomedcentral.com/1472-6750/3/7>.

Pandolfini T., Rotino GL, Camerini S, Defez R, Spena A. (2002). Optimisation of transgene action at the post-transcriptional level: high quality parthenocarpic fruits in industrial tomatoes. BMC Biotechnology 2, 1. <http://www.biomedcentral.com/1472-6750/2/1>.

Acciarri N., Restaino F., Vitelli G., Perrone D., Zottini M., **Pandolfini T.**, Spena A., Rotino G.L. (2002) Genetically modified parthenocarpic eggplants: improved fruit productivity under both greenhouse and open field cultivation. BMC Biotechnology 2,4 <http://www.biomedcentral.com/1472-6750/2/4>.

Mezzetti B., Landi L., Scortichini L., Rebori A., Spena A., **Pandolfini T.**, (2002). Genetic engineering of parthenocarpic fruit development in strawberry. Proc. 4th ISHS Strawberry symposium, Acta Hort., 567,101-104.

Mezzetti B, **Pandolfini T.**, Navacchi O. and Landi L. (2002) Genetic transformation of *Vitis vinifera* via organogenesis. BMC Biotechnology, 2:18 <http://www.biomedcentral.com/1472-6750/2/18>.

Pandolfini T., Storlazzi A., Calabria E., Defez R. and Spena A. (2000) The spliceosomal intron of *rolA* gene of *Agrobacterium rhizogenes* is a prokaryotic promoter. Molecular Microbiology, 35(6), 1326-1334.

Santandrea G., **Pandolfini T.**, Bennici A. (2000) A physiological characterization of Mn-tolerant tobacco plants selected by in vitro culture. Plant Science, 150 (2),163-170.

Acciarri N., Ferrari V., Vitelli G., Ficcadenti N., **Pandolfini T.**, Spena A., Rotino G.L. (2000) Effetto della partenocarpia in ibridi di pomodoro geneticamente modificati. Informatore Agrario 4,117-121.

Gabrielli R., **Pandolfini T.**, Espen L. and Palandri M.R. (1999) Growth, peroxidase activity and cytological modifications in *Pisum sativum* seedlings exposed to Ni²⁺ toxicity. J Plant Physiol, 155 (4-5), 639-645.

Ficcadenti N, Sestili S., **Pandolfini T.**, Cirillo C., Rotino G.L. and Spena A. (1999) Genetic engineering of parthenocarpic fruit development in tomato. Molecular Breeding, 5(5), 463-470.

Rotino G.L., Donzella G., Zottini M., Sommer H., Ficcadenti N., Cirillo C., Sestili S., Perri E., **Pandolfini T.** and Spina A. (1999) Genetic engineering of parthenocarpic vegetable crops. In: Genetics and Breeding for Crop Quality and Resistance (eds. Scarascia Mugnozza G.T., Porceddu E. and Pagnotta A.) Kluwer Acad. Publ., pp. 301-306.

Pandolfini T., Gremigni P. and Gabbrielli R. (1997) Biomonitoring of soil health. In: Biological Indicators of Soil Health (eds. C.E. Pankhurst, B.M. Doube and V.V.S.R. Gupta) CAB International, Wallingford, U.K. pp. 325-347.

Lombini A., **Pandolfini T.**, Ferrari C. and Dinelli E. (1997) Cu-tolerance and accumulation of two populations of *Silene armeria* L. from a copper mine and from a serpentinite outcrop (northern Apennines, Italy). In: The Ecology of Ultramafic and Metalliferous Areas (eds. Jaffrè, Reeves R.D. and Becquer T.) pp. 233-235. Orstom, Noumea.

Gabbrielli R., Gremigni P., Bonzi Morassi L., **Pandolfini T.** and Medeghini Bonatti P. (1997) Some aspects of Ni tolerance in *Alyssum bertolonii* Desv.: strategies of metal distribution and accumulation. In: The Ecology of Ultramafic and Metalliferous Areas (eds. Jaffrè, Reeves R.D. and Becquer T.) pp. 225-227. Orstom, Noumea.

Pandolfini T., Gabbrielli R. and Ciscato M. (1996) Ni toxicity in two durum wheat cultivars with different drought sensitivity. *Journal of Plant Nutrition* 19 (12) 1611-1627.

Gabbrielli R., **Pandolfini T.** and Pucci B. (1995) Physiological role of root surface phosphatases in adaptation strategies of *Alyssum bertolonii* Desv. to serpentine edaphic conditions. *Phyton* 35,2,189-197.

Pandolfini T. and Gabbrielli R. (1993) Changes in the activity and in the isozyme pattern of peroxidases from different cellular fractions in Ni-treated plants. In: Plant Peroxidases: Biochemistry and Physiology. (eds. K.G. Welinder, S.K. Rasmussen, C. Penel and H. Greppin) pp. 417-421. University of Geneva, Geneva.

Pandolfini T., Gabbrielli R. and Comparini C. (1992) Nickel toxicity and peroxidase activity in seedlings of *Triticum aestivum* L. *Plant, Cell and Environment*, 15, 719-725.

Pandolfini T. and Pancaro L. (1992) Biogeochemical survey of some ophiolitic outcrops in Tuscany. *Flora*, 187, 341-351.

Vergnano Gambi O., Gabbrielli R. and **Pandolfini T.** (1992) Some aspects of the metabolism of *Alyssum bertolonii* Desv. In: The Vegetation of Ultramafic (Serpentine) Soils. (eds. J. Proctor, A.J.M. Baker and R.D. Reeves) pp. 319-329. Intercept, Andover.

Gabbrielli R., **Pandolfini T.**, Vergnano O. and Palandri M.R. (1990) Comparison of two serpentine species with different nickel tolerance strategies. *Plant and Soil* 122, 271-277.

Pandolfini T. (1987) Rapporto tra presenza di metalli pesanti nelle piante e nell'ambiente e possibilità di individuazione di indicatori biologici. *Arch. Bot. Biogeog. It.* 63 (1-2), 22-31.

Gabbrielli R. and **Pandolfini T.** (1984) Effect of Mg^{2+} and Ca^{2+} on the response to nickel toxicity in a serpentine endemic and nickel accumulating species. *Physiol. Plant.* 62, 540-544.

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