

Paola Bonfante

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A.) Professional Preparation

University of Torino, Biology (Laurea)

1970

Fellowship in Mycology Centro Studio sulla Micologia del terreno del CNR 1970-1973

Post-doc period at the Ecole Normale Supérieure, Paris

1980

B.) Appointments

2006—Present- head of the Department of Plant Biology, University of Torino

2002- Present Responsible of the CNR- Group of Soil Mycology -Torino

2000 - Present Co-ordinator of the Ph.D School in Biology and Biotechnology of Fungi

1995-2001 Director of Centro di Studio sulla Micologia del terreno del CNR-Torino

1988 Visiting Scientist in Japan

1985 - Present Full Professor of Plant Biology, University of Torino

1973- 1984 Researcher Centro di Studio sulla Micologia del terreno del CNR

C.) Publications

i) List of some recent publications

Lanfranco L., Bolchi A., E.Cesale Ros, S.Ottonello and **P.Bonfante** 2002. Differential expression of a metallothionein gene during the presymbiotic versus the symbiotic phase of an arbuscular mycorrhizal fungus" *Plant Physiol* 130: 56-67

Lacourt I., S.Duplessis, S.Abbà, **P.Bonfante**, F. Martin., 2002. Isolation and characterization of differentially expressed genes in the Mycelium and fruitbody of *Tuber borchii*. *AEM* 68 (9) 4574-4582

Benedetto, A. et al. (2005). Expression profiles of a phosphate transporter gene (GmosPT) from the endomycorrhizal fungus *Glomus Mosseae*. *Mycorrhiza* 15 (8): 620 – 627

Gabella, S., Abba, S., Duplessis, S., Montanini, B., Martin, F. and Bonfante, P. (2005). Transcript profiling reveals novel marker genes involved in fruiting body formation in *Tuber Borchii*. *Eukaryotic Cell* 4 : 1599-1602

Lanfranco, L., Novero, M. & Bonfante, P. (2005). The mycorrhizal fungus *Gigaspora Margarita* possesses a Cu Zn superoxidedismutase which is up-regulated during the symbiosis with legume hosts. *Plant Physiol.*, 137, 1319-1330.

Miozzi L., Balestrini R., Bolchi A., Novero M., Ottonello S. & Bonfante, P. (2005). Phospholipase A2 up-regulation during mycorrhiza formation in *Tuber Borchii*. *New Phytologist*, 167: 229–238

Balestrini, R., Cosgrove, D.J. and Bonfante, P. (2005). Differential location of α -expansin proteins during the accommodation of root cells to an arbuscular mycorrhizal fungus. *Planta* 220 (6): 889-899

Mello, A., Murat, C., Bonfante P. (2006). Truffles: much more than a prized and local fungal delicacy. *FEMS Microbiology Letters* 260 (1), pp. 1-8

Cappellazzo et al., A limiting source of organic nitrogen induces specific transcriptional responses in the extraradical structures of the endomycorrhizal fungus *Glomus intraradices* Current genetics, in press

Montanini, B., Gabella, S., Abbà, S., Peter, M., Kohler, A., Bonfante, P., Chalot, M., , Ottonello, S. 2006 Gene expression profiling of the nitrogen starvation stress response in the mycorrhizal ascomycete *Tuber borchii* *Fungal Genetics and Biology* 43 (9), pp. 630-641

Genre et al. Arbuscular mycorrhizal fungi elicit a novel intracellular apparatus in *Medicago Truncatula* root epidermal cells prior to infection. *Plant Cell* 17 (12):3489-99

Lumini E, Ghignone S, Bianciotto V, Bonfante P. (2006). Endobacteria or bacterial endosymbionts? To be or not to be. *New Phytol.*, 170 (2):205-8.

Vallino Marta, Massa Nadia, Lumini Erica, Bianciotto Valeria, Berta Graziella & Bonfante Paola. (2006). Assessment of arbuscular mycorrhizal fungal diversity in roots of *Solidago Gigantea* growing on a polluted soil in northern Italy. *Environmental Microbiology* 8 (6), pp. 971-983

Montanini, B., Viscomi, A.R., Bolchi, A., Martin, Y., Siverio, J.M., Balestrini, R., Bonfante, P., Ottonello, S. 2006, Functional properties and differential mode of regulation of the nitrate transporter from a plant symbiotic ascomycete *Biochemical Journal* 394 (1), pp. 125-134

Mello, A., Ghignone, S., Vizzini, A., Sechi, C., Ruiu, P., Bonfante, P. 2006 .(2006). ITS primers for the identification of marketable boletes. *Journal of Biotechnology* 121 (3), pp. 318-329

D. Synergistic activities

1. Teacher at first level (Plant biology); second level (Plant and Environmental responses); third level (Plant-Microbe interactions). Instructing undergraduate students, Ph. D students and scientists in plant/microbe interactions with special attention to mycorrhizal fungi and their endobacteria..

- Scientific Committee of the European project COST 838, and of the European meeting on Mycorrhizae
- Organizer Organizer of symposia, workshops and meetings on mycorrhizas and symbiotic fungi
- Associated Editor of Mycological Research and Microbiological research,
- Board member in the following journals
 - *Protoplasma*,
 - *European Journal of Histochemistry*,
 - *New Phytologist*
 - *Applied Environmental Microbiology* (from 2004)
- Referee for papers concerning mycorrhizas for different journals and for scientific European and American Agencies

Invited speakers in many international congresses of Mycology, Microbiology, Botany, Biotechnology, Plant Pathology.

- Invited to be External examiner (Opponent) for more than 12 French Ph.D. Dissertations in Lyon, Dijon, Toulouse, Nancy, Paris and 1 in Switzerland
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- Organizing committee of the next MPMI meeting, Sorrento 2007

- *Awards*

Fellow of

Academy of Sciences of Torino (2000),
Academy of Agriculture of Torino (2000).

- I belong to a group of “Women in science” founded in Torino in 1977 and still active.

2. E. Conflicts of interest

F. Current Advisees

M.Sc. students	10
Ph D students	6

