

## **Daniela Minerdi**

Qualifications and titles: PhD

Date of birth: 01/06/1970 Nationality: Italian

### **Scientific career**

27/10/2008 –present: Technician at University of Torino

2004–2008: Post-doctoral research associate at University of Torino

2003 –2004: Post-doctoral research associate at University of Firenze

2001-2003: Post-doctoral research fellow at University of Torino

1997 – 2000: PhD student at University of Piemonte Orientale “Amedeo Avogadro”

### **Qualifications**

2000: Ph.D. in Environmental Sciences, University of Piemonte Orientale

1996 Lauream degree in Biological Sciences, 110/110 cum laude, Faculty of Sciences, University of Torino.

### **Scientific track record**

Author of 19 publications on international journals, 4 Chapters in 3 Edited Books

Invited speaker to University of Zurich and Lausanne

Invited speaker to 5 congresses.

Partecipation to more than 30 International conferences.

### **Publications**

Bianciotto V., Minerdi D., Perotto S., Bonfante P. 1996. Cellular interactions between arbuscular mycorrhizal fungi and rhizosphere bacteria. *Protoplasma* 193: 123-131.

Bianciotto V., Bandi C., Minerdi D., Sironi M., Tichy H. V., Bonfante P. 1996. An obligate endosymbiotic mycorrhizal fungus itself harbours obligate endobacteria. *Applied and Environmental Microbiology* 62(8): 3005-3010.

van Buuren, M., Lanfranco, L., Longato, S., Minerdi, D., Harrison, M. J., and Bonfante, P. 1999. Construction and characterization of genomic libraries of two endomycorrhizal fungi: *Glomus versiforme* and *Gigaspora margarita*. *Mycological Research* 103 (8): 955-960.

V, Bianciotto., Lanfranco L., Lumini E., D.Minerdi, Bonfante P and Perotto S. 2000. Detection and identification of bacterial endosymbionts in arbuscular mycorrhizal fungi belonging to Gigasporaceae. *Applied and Environmental Microbiology* 66 (10): 4503-4509.

D. Minerdi, Fani R., Gallo R., Boarino A., Bonfante P. 2001. Nitrogen fixation genes in an endosymbiotic *Burkholderia* strain. *Applied and Environmental Microbiology* 67 (2): 725-732.

Daniela Minerdi, Renato Fani and Paola Bonfante. 2002. Identification and evolutionary analysis of putative

cytoplasmic McpA-like protein in a obligatory endosymbiotic *Burkholderia* strain. *Journal of Molecular Evolution* 54: 815-824.

D. Minerdi, V. Bianciotto and P. Bonfante. 2002. Bacteria inside mycorrhizal fungi: from their morphology to genomic sequences. *Plant and Soil*, 244: 211-219.

Silvana Vanucci,\* Daniela Minerdi,\* Kenji Kadumatsu, Alessio Mengoni, Marco Bazzicalupo. 2005. Putative midkine family protein up-regulation in *Patella caerulea* (Mollusca, Gastropoda) exposed to sublethal concentrations of cadmium. *Aquatic Toxicology*, 75: 374-379. **These authors contributed equally to the work.**

Garibaldi A., Bertetti D., Minerdi D., Gullino M.L. 2006. First report of powdery mildew caused by *Erysiphe (Golovonomices) orontii* on *Veronica spicata* in Italy. *Plant Disease*, 90: 831.

Garibaldi A., Gilardi G., Minerdi D., Gullino M.L. 2006. First report of leaf spot caused by *Phoma esigua* on *Hydrangea macrophylla* in Italy. *Plant Disease*, 90: 1113.

Garibaldi A., Bertetti D., Minerdi D., Gullino M.L. 2006. First report of *Phytophthora citrophthora* on *Penstemon barbatus* in Italy. *Plant Disease*, 90: 1261.

Garibaldi A., Bertetti D., Minerdi D., Gullino M.L. 2007. First report of powdery mildew caused by *Golovinomyces orontii* (*Erysiphe orontii*) on *Lamium galeobdolon* in Italy. *Plant Disease*, 91, 635

Daniela Minerdi, Marino Moretti, Yuan Li, Laura Gaggero, Angelo Garibaldi, Maria Lodovica Gullino. 2008. Conventional PCR and real time quantitative PCR detection of *Phytophthora cryptogea* on *Gerbera jamesonii*. *European Journal of Plant Pathology*, 122: 227-237.

M. Moretti, D. Minerdi, G. Gilardi, C. Barberio, M.L. Gullino and A. Garibaldi. 2008. *Journal of Plant Pathology* 90 (2) S2.81-S2.465 A *Fusarium* bacteria-interaction for biocontrol.

Daniela Minerdi, Marino Moretti, Giovanna Gilardi, Claudia Barberio, Maria Lodovica Gullino, Angelo Garibaldi. 2008. Bacterial ectosymbionts and virulence silencing in a *Fusarium oxysporum* strain. *Environmental Microbiology*, 10: 1725-41.

Yuan Li, D. Minerdi, A. Garibaldi and M. L. Gullino. 2009. Molecular detection of *Phytophthora cryptogea* on *Calendula officinalis* and *Gerbera jamesoni* artificially inoculated with zoospores. *Journal of Phytopathology* 91: 1-8.

Minerdi D, Bossi S, Gullino ML, Garibaldi A. 2009. Volatile organic compounds: a potential direct long distance mechanism for antagonistic action of *Fusarium oxysporum* strain MSA 35. *Environmental Microbiology* 11: 844-854.

Garibaldi A., Minerdi D., Gullino M. L. 2009. A new mechanisms of action of an antagonistic strain of *Fusarium oxysporum*. *Phytopathology*, 99, 6S, 41.

Moretti M, Grunau A, Minerdi D, Gehrig P, Roschitzki B, Eberl L, Garibaldi A, Gullino ML, Riedel K. 2010. A proteomics approach to study synergistic and antagonistic interactions of the fungal-bacterial consortium *Fusarium oxysporum* wild-type MSA 35 . *Proteomics*: 10,:3292-320.

Minerdi D, Bossi S, Maffei ME, Gullino ML, Garibaldi A. *FEMS Microbiol Ecol*. 2011 In press. *Fusarium oxysporum* and its bacterial consortium promote lettuce growth and expansin A5 gene expression through microbial volatile organic compounds (MVOCs) emission.

### **Experience in external laboratories.**

2005: Visiting post-doc at the University of Zurich, Switzerland, Department of Plant Biology.

2002: Visiting post-doc at the University of Lausanne, Switzerland, Laboratoire de Biologie Microbienne Batiment de Biologie.

1998-2000 Visiting PhD in the Laboratory of Genetics, University of Firenze, Italy.

#### **Funding ID**

1999: winner of the FEMS Young Scientist Grant contribution for the partecipation to 6<sup>th</sup> Symposium on Bacterial Genetics and Ecology (BAGECO-6), 20-24/06/1999, Firenze, Italy.

#### **Prices**

-1997 Medal of the University of Torino for the best thesis of Biological Sciences.

-1998 Prize of the Italian Society of Microbiology for the best italian thesis.

#### **Schools attended**

25-29 May 1998. "Theoretical and Practical Course Bacterial Genetics" International Centre for Genetic Engineering and Biotechnology (I.C.G.E.B) Trieste, Italy

5-15 June 2001. "5th course: Protein structure, dynamics, genomics and function". International School of Structural Biology and Magnetic Resonance, NATO Advanced Study Institute, Ettore Mjorana Centre for Scientific Culture ad Erice ,Trapani, Italy.