**CURRICULUM VITAE**

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| **Name** | **Paola BONFANTE** |
| **Birth** | Born in Torino, May 7, 1947 |
| **Nationality** | Italian |
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| **Present address**  **and role** | Department of Life Science and Systems Biology Viale Mattioli 25 - 10125 Torino  tel. +39 011 670 5965 (office)  E-mail: paola.bonfante@unito;  Skype paolabonfante  Full Professor of Plant Biology (till November 2017)  Currently: Professor Emerita |
| **Education** | * Italian Thesis in Biological Sciences, University of Torino (1970). * PhD equivalent in Soil Mycology- CSMT, National Council of Research, * Torino, ITALY (1970-1973) |
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| **Key qualifications** | **Research Field**: Biology of Plant-Microorganism Interactions  **Research Group coordination**: The group she has coordinated has a research tradition on the biology of symbiotic associations, mainly mycorrhizas, and fungal taxonomy which dates back to 1975. PB spent a long part of her scientific activity studying the intimate interactions that occur between fungi and plants as well as between bacteria and fungi, using cellular and molecular approaches. Applying DNA technologies, early in the nineties, she provided contribution to the knowledge of mycorrhizal diversity in natural as well as in cultivated fields. She has discovered a group of endobacteria which live inside mycorrhizal fungi and may modulate some of the functional traits of their fungal hosts. These findings have pioneered a new field of research (Fungal-bacterial interactions) which is currently considered relevant in the context of the environmental microbiota.  The main scientific missions of the group have been and still are: To understand the cellular and molecular basis of plant-fungal interactions in mycorrhizas; to investigate the genetic determinants which characterize some mycorrhizal fungi; to define the fungal biodiversity in soil; to evaluate the fungal impact in natural and agricultural ecosystems; to investigate the fungal interactions with other microorganisms. The expertise on cellular and molecular biology of plant/fungal interactions as well as on dynamics of fungal populations is witnessed by a large number of original, review and technical papers and multiple international collaborations.  **Major scientific projects**  In the more recent times, PB has coordinated projects on: Bacterial and fungal microbiomes in rice, tomato and wheat; Dissecting the role of the fungal intracellular microbiota; Rice and tomato responses to arbuscular mycorrhizal fungi; Genomics and Functional genomics in mycorrhizal fungi; Systemic effects of mycorrhizal fungi on plant traits |
| **Positions**  **Teaching positions** | Professor Emerita  Full Professor of Plant Biology at the University of Torino (1984-2017)  Head of the Department of Plant Biology (October 2006-December 2011)  Responsible of the Centro di Studio sulla Micologia del Terreno del CNR- Torino, currently named Sezione di Torino dell'Istituto di Protezione per le Piante (1995-2009), Coordinator of the PhD school in Biological and Biotechnological Sciences; (2006-2013), Coordinator the PhD Course in Biology and Biotechnology of Fungi (2000-2005)  Till November 2017- Natural Sciences (Botany, Plant-Microbe interactions), Biology (Plant-Microbe interactions), Plant Biotechnology  Supervisors of hundreds of undergraduate students, and of more than 60 PhD students and postdoctoral fellows. Many of them are currently enrolled in Italian and European Universities, as well as in CNR and INRA laboratories. |
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| **Scientific**  **responsibilities**  **and activities**  **Editorial**  **and evaluation**  **activities** | Member of the Scientific Committee for Research Activities-Provincia di Trento (2014-2019).  Member of the Scientific Committee of CNR (2012-2016)  Organizer of many symposia, workshops and meetings on mycorrhizas and symbiotic fungi;  Visiting scientist in Japan (1989), Brazil (2012), Mexico (2016)  Invited speakers in many international congresses of Mycology, Microbiology, Botany, Biotechnology, Plant Pathology, Cell Biology, Fungal genetics, Genetics, Memorial Symposium for Biology of Symbiosis, ICOM, iMMM, Microbiota, ISME meetings  Invited seminars in many universities, worldwide  Invited to be External examiner (Opponent) for more than 20 PhD Dissertations in Europe  Member of the Scientific Committee of the Dijon Campus (France)  Member of the Scientific Committee of Plant for Future (Italy) Organizing committee of many meetings, among which MPMI Meeting in Sorrento (2007), 8th International Congress of Plant Pathology (Torino, 2008), Indian-Italian Workshop (November, 2010), IMMM (Cambridge 2015, Toulouse, 2017, Torino 2019), ISME 2016; xlvi seminario Evoluzione biologica e i grandi problemi della biologia: Il microbiota, il secondo genoma degli eucarioti  IMA Executive Committee (International Mycological Association) 2018--  **Editorial and evaluation activities**  Editor of Environmental Microbiology (2013-);  Senior Editor IMA FUNGUS (2019-)  Editor of Microroganisms (2019-)  Associated Editor of Fungal Biology (Till 2015); Board member of New Phytologist, Board member of IS-MPMI *Interactions*, The ISME Journal  Referee for papers concerning mycorrhizas for different journals (ie. Science, Nature, Plant Cell, Plant Journal, Plant Physiology, Planta, Fungal Biology & Genetics, PNAS and many others)  Evaluator for scientific European and American (NSF) Agencies. Evaluator for: ERC (Senior grants, 2011, Consolidated grants 2016), Finnish Academy, Helsinki (2018-2019); The European Science Foundation (2019-2020); MIUR (2018); CSIC Labs (Madrid, 2018) |
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| **Awards** | Fellow of Academy of Sciences of Torino (2000), Academy of Agriculture of Torino (2000); Accademia dei Lincei Roma (November 2011), Académie d'Agriculture de France, Paris (2018), Accademia Europea, MAE (2019)  Award for Plant Biology 2010, Roma, June 2010  Award for the Award for the French Food Spirit- Science – Paris, December 16, 2010  2019: Appointed Commander (“Commendatore”) of the “Order of Merit of the Italian Republic” by the President of the Italian Republic (“motu proprio”).  She is in the list of:  1. Top Italian Scientists- Ranking 4 for the typology **Natural sciences** http://www.topitalianscientists.org/TIS\_HTML/Top\_Italian\_Scientists\_Natural\_Environmental\_Sciences.htm  2. Highly Quoted Researchers, (ISI) Philadelphia.http://hcr.stateofinnovation.com;  In the list of Clarivate Analytics: highly quoted researcher 2017- 2018  3. One hundred Italian Experts: http://100esperte.it/search?id=bonfante-paola-70  4. Member of Group 2003 https://www.gruppo2003.org  5. Listed as the top-rated expert in [Mycorrhizae](http://www.expertscape.com/go/mycorrhizae) in the world by  http://www.expertscape.com/ex/mycorrhizae |
| **Scientific production** | Papers in refereed journals: 389 (listed in the official site of the University Ministry  and in the web sites of the Torino University  <http://www.dbios.unito.it/do/docenti.pl/Show?_id=pbonfant#pubblicazioni>  **Google scholar:** H index 87; citations 24854  https://scholar.google.it/citations?user=WiJOKEQAAAAJ&hl=en |
| **Broader Science Communication** | Lectures on Plant biology, Microbes, Agriculture, Food and Environments (2019-2020) for  Higher Schools in Torino, University "Terza Età"; Science Festival (Mantova 2019; Bergamo 2019); Giovedì Scienza (Torino); Prepararsi al futuro (Torino, 2020)  Interview for New Phytologist 2018 https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.15169 |