CURRICULUM VITAE

Name	Paola BONFANTE Image: Constraint of the second se
Birth Nationality	Born in Torino, May 7, 1947 Italian
Present address and role	Department of Life Science and Systems Biology Viale Mattioli 25 - 10125 Torino tel. +39 011 670 5965 (office) 3493131231 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)
Key qualifications	Research Field : Biology of Plant-Microorganism Interactions and Sustainability. <i>More than eighty per cent of land plants live associated to bacteria and fungi,</i> <i>which act as biofertilisers and bioprotectors against pathogens. They build up a</i> <i>plant microbiota which a crucial tool to develop new strategies for a more</i> <i>sustainable agriculture</i>
	Research Group coordination and main discoveries : 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 symbiotic 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. 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 in the frame of ssustainable agriculture; to investigate the fungal interactions with other microorganisms. In this context, in the early eighties Paola Bonfante built up an atlas of the cellular plant- fungal interactions occurring in mycorrhizal symbioses; later she has discovered two groups of endobacteria which live inside mycorrhizal fungi and - thanks to their genome sequencing- she described how these microbes may modulate some of the functional traits of their fungal hosts. These findings

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Editorial and evaluation activities	 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 (2019-2020) 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, 2019; Consolidated grants 2016), Finnish Academy, Helsinki (2018-2019); The European Science Foundation (2019-2020-2021); MIUR (2018); CSIC Labs (Madrid, 2018), ANR (2020-2021)
Awards	Fellow of Academy of Sciences of Torino (2000), Academy of Agriculture of Torino (2000); Accademia dei Lincei Roma (November 2011, November 2021), 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
	2021: The Adam Kondorosi -Academia Europaea Award for Advanced research
	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 3 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, 2020 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 <u>Mycorrhizae</u> in the world by http://www.expertscape.com/ex/mycorrhizae

Scientific production	Papers in refereed journals: more than 390 (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 94; citations more than 30000
	https://scholar.google.it/citations?user=WiJOKEQAAAAJ&hl=en
Broader Science	Lectures on Plant biology, Microbes, Agriculture, Food and Environments
Science	(2019-2020) for
Communi	Higher Schools in Torino, University "Terza Età"; Science Festival (Mantova
cation	2019; Bergamo 2019, Genova 2021); Giovedì Scienza (Torino 2020); Prepararsi
	al futuro (Torino, 2020), Maratona : I love Scienza 10 November 2020
	TV interview on Agriculture
	https://www.raiplay.it/video/2020/12/Prepararsi-al-futuro-La- natura-e-ancora-naturale-1c509588-56fb-4907-8a28-
	3e4a1f06243a.html
	Video: Yellow sofa
	https://www.youtube.com/watch?v=p75QZoDjPVU
	Book: Una pianta non è un"isola. Mulino 2021
	Interview for New Phytologist 2018
	https://nph.onlinelibrary.wiley.com/doi/10.1111/nph.15169
	Interview for Trends in Plant science