

Curriculum Vitae

PERSONAL DETAILS

Name **Andrea Genre**
Date of birth 12/12/1970
Address [office] Dipartimento di Scienze della Vita e Biologia dei Sistemi, Viale P.A. Mattioli 25, 10125 Torino
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Nationality Italian



EDUCATION

Date 16.1.2006
Title **PhD** in Fungal Biology and biotechnologies
Subject "Signalling events in arbuscular mycorrhizas: host plant cell responses"
Institution University of Torino

Date 4.7.1995
Title **Master degree** in Biology
Subject Plant biology
Institution University of Torino

CURRENT POSITION

Date November 2014 - present
Position **Associate professor**
Activity Research and teaching
Subject Plant Biology
Institution University of Torino, Dipartimento di Scienze della Vita e Biologia dei Sistemi

PREVIOUS POSITIONS

Date October 2007 - October 2014
Position **Assistant professor**
Activity Research and teaching
Subject Plant Biology
Institution University of Torino, Dipartimento di Scienze della Vita e Biologia dei Sistemi

Date 2001-2007
Position **Research assistant**
Activity Plant biology research
Institution University of Torino, Dipartimento di Biologia Vegetale

FELLOWSHIPS AND AWARDS	<p>2017 - INRA-Labex TULIP Center Visiting Scientist grant for research activity (March 13 - April 1 2017) at the Laboratoire Interactions Plantes-Microorganismes - UMR INRA/CNRS, Toulouse, France.</p> <p>2016 - AUFF Visiting researcher grant for research and teaching activities related to the PhD course on 'Cell biology in plant-microbe interactions' 1-10 September 2016, Dept. of Genetics and Molecular Biology, University of Aarhus, Denmark</p> <p>2013 - EMBO Short term Fellowship for a two month stage at the Laboratory of Plant Molecular Biology, Dept. of Genetics and Molecular Biology, University of Aarhus, Denmark (Prof. Jens Stougaard).</p> <p>2007 - 'Best poster' prize at the XIII IS-MPMI meeting, International Society for Molecular Plant-Microbe Interactions, Sorrento, Italy</p> <p>2004 - Marie Curie Fellowship for a three month stage at the Laboratoire Interactions plantes-Microorganismes, Université Paul Sabatier, Toulouse, France (Dr. David Barker).</p>
RESEARCH ACTIVITY	<p>General field Biology and biotechnology of plant-microbe interactions</p> <p>Major interests Cellular and molecular interactions in plant-fungus associations; cellular bases of arbuscular mycorrhizal symbiosis; cellular and molecular characterization of symbiotic endobacteria in arbuscular mycorrhizal fungi; genetic transformation of plants; Live cell imaging.</p>
SUPERVISION	<p>2008-2018 3 Postdocs; 3 PhD students (Biology and Applied Biotechnologies, University of Turin); 15 Master Students (Biology, Plant Biotechnology, University of Turin; Ecobiology, University of Rome "La Sapienza", Italy); 18 Graduate students (Biology, University of Turin)</p>
TEACHING ACTIVITIES	<p>2008 – present</p> <ul style="list-style-type: none"> – Plant cellular and developmental biology, master degree in Plant Biotechnology, University of Turin – Plant Biology and Diversity, graduate degree in Biology, University of Turin – Applied Plant Biotechnology, graduate degree in Biology, University of Turin – General Botany, graduate degree in Natural Sciences, University of Turin <p>2016 – Applications of confocal microscopy to the study of plant microbe interactions - Course in 'Cell biology in plant-microbe interactions' - Dept. of Genetics and Molecular Biology, University of Aarhus, Denmark</p> <p>2017 – 2019 Confocal microscopy - Course in 'Electron and confocal microscopy for botanical applications'. University of Modena and Reggio Emilia - CIGS</p>
INSTITUTIONAL RESPONSIBILITIES	<p>2018 – Member of the Department Board at DBIOS, University of Turin</p> <p>2013 – 2018 Member of the Research Committee at DBIOS, University of Turin 2013 – Council Member of the Department of Life Sciences and Systems Biology (DBIOS), University of Turin</p>

COMMISSIONS
OF TRUST

- 2012 – Member of the Teaching Committee of the PhD course in Biology and Applied Biotechnologies
2011 – Member of the Library Committee at DBIOS, University of Turin
2008 – Graduate Student Advisor, Degree in Biology, University of Turin
2008 – 2013 Council Member of the Faculty of Sciences, University of Turin
2020 – Editor: *New Phytologist*
2020 – Speciality Chief Editor: *Frontiers in Plant Science - Plant Symbiotic Interactions*
2019 – Editorial Board Member: *Mycorrhiza*
2019 – Associate Faculty Member: Faculty of 1000
2014 – Associate Editor: *Frontiers in Microbiology*
2014 - 2020 Associate Editor: *Frontiers in Plant Science*

- 2019 - Review Panel Member, ESF, EU
2018 - Review Panel Member, ANR projects, France
- Review Panel Member, FSR projects, Belgium
2017 - Review Panel Member, ANR projects, France
- Review Panel Member, ERA-CAPS, EU
- Review Panel External Member, ANVUR, Italy
2016 - Review Panel Member, FWF projects, Austria
2016 - member of the PhD evaluation committee at the Università di Padova, Italy
2015 - member of the PhD evaluation committee at the Università di Padova, Italy
2014 - Review Panel Member, Assegni Ricerca Junior, Università degli Studi dell'Insubria, Italy
2013 - Review Panel Member, National Science Foundation, USA
2013 - Review Panel Member, NWO Open Programme, The Netherlands
2013 - External member of PhD evaluation committee at the Université de Grenoble, France.
2012 - Review panel member, PRIN - MIUR, Italy
2011 - 2014 - Editorial Board Member, *Frontiers in Plant Science*
2009 - 2011 - Editorial Board member, *Protoplasma*
2008 - Review Panel Member, NWO Medium, The Netherlands
2001 - 2018 - Peer reviewer for several international journals, including: *The Plant Cell*; *Plant Physiology*; *Molecular Plant-Microbe Interactions*; *Protoplasma*; *PLoS ONE*, *New Phytologist*; *Canadian Journal of Botany*; *Mycological Research*; *Journal of Experimental Botany*; *Plant Biosystems*, *Planta*, *Frontiers in Plant-Microbe Interactions*; *Plant and Cell Physiology*; *Plant Pathology*; *Fungal Biology*.

SCIENTIFIC SOCIETY
MEMBERSHIP

- 2020 - Member of the *Italian Society for Botany*
2004 - Member of the *International Mycorrhiza Society*
2019 - Scientific committee of the International Molecular Mycorrhiza Meeting (IMMM)
- organizer of the 4th IMMM in Turin, Italy, 2019
(<http://www.societabotanicaitaliana.it/immm2019/eng/>)

**MAJOR
COLLABORATIONS**

- David Barker, *Signaling and plant cell responses in arbuscular mycorrhizas*, Laboratoire Interactions Plantes-Microorganismes, INRA/CNRS, Castanet Tolosan, **France**
- Viktor Zarsky, *Role of the exocyst complex in fungal accommodation in arbuscular mycorrhizas*, Dept. of Experimental plant Biology, University of Prague, **Czech Republic**
- Ton Bisseling, *Plant SNARE proteins in legume root symbioses*, Dept. of Plant Sciences, University of Wageningen, **The Netherlands**
- Jens Stougaard, *Early signaling and plant receptors involved in arbuscular mycorrhizas and nodulation in Lotus japonicus*, Dept. of genetics and Molecular Biology, University of Aarhus, **Denmark**
- Ulrike Mathesius, *Investigating the role of auxin in arbuscular mycorrhizas*, Australian National University, Canberra, **Australia**
- Janice De Almeida-Engler, Institut Sophia Agrobiotech INRA/CNRS, Sophia Antipolis, **France**

**INVITED
PRESENTATIONS**

- 2005 - COST 8.38 meeting, Dijon, France
- 2006 - Summer school on 'Advanced microscopy techniques in plant cell and tissue analyses', Sabaudia, Italy
- 2006 - Workshop on 'Cell biology applied to plant microbe interactions' INTEGRAL EU project, Turin, Italy
- 2008 - JJC-Phytopathology and Mycology, Aussois, France
- 2010 - Molecular dialogue in host-parasite interactions, Bruxelles, Belgium
- 2010 - Indo-Italian workshop on bacteria and fungi for environmental sustainability, New Delhi, India
- 2012 - Molecular Mycorrhiza Meeting, Munich, Germany
- 2012 - Journées Francophones sur les Mycorrhizes, Nancy, France
- 2012 - XV IS-MPMI Congress, Kyoto, Japan
- 2013 - XI Fungal Biology Conference, Karlsruhe, Germany
- 2014 - Fédération de Recherche AIB Seminar, LIPM, Castanet Tolosan, France
- 2014 - International Microscopy Meeting 2014, Prague, Czech Republic
- 2014 - 2nd Adam Kondorosi Symposium, Gif-sur-Yvette, France
- 2015 - 2nd International Molecular Mycorrhiza Meeting, Cambridge, UK.
- 2015 - 8th Congress of the International Symbiosis Society. Lisbon, Portugal.
- 2015 - Spotlight on Microbiology, Marburg, Germany.
- 2015 - 36th New Phytologist Symposium, Munich, Germany.
- 2016 - Invited seminar at IPMC - CNRS/INRA, Sophia-Antipolis, France.
- 2017 - Invited seminar at Dept. of Agronomy, University of Padova, Italy.
- 2017 - Invited lecture at Dept. of Agronomy, University of Padova, Italy.
- 2017 - Invited talk at UNITO/CSP, Torino, Italy.
- 2017 - Invited seminar at IRNA-Labex TULIP Center, Toulouse, France.
- 2019 - Invited Seminar at Dept. of Biology, University of Padova, Italy
- 2020 - Invited Seminar at Scuola Superiore Sant'Anna, Pisa, Italy
- 2020 - 115° Congresso della Società Botanica Italiana, online

RECENT GRANTS

<i>Project</i>	<i>Institution</i>	<i>Grant</i>	<i>Period</i>	<i>Role</i>
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Ricerca Locale 2020	UNITO	€ 5.000	2020-2022	PI
Ricerca Locale 2019	UNITO	€ 4.500	2019-2021	PI
AMforQuality	Fondazione CRC	€ 200.000	2016-2020	PI
Ricerca Locale 2018	UNITO	€ 4.500	2018-2020	PI
Ricerca Locale 2017	UNITO	€ 4.000	2018-2019	PI
Ricerca Locale 2015	UNITO	€ 3.500	2016-2018	PI
Ricerca Locale 2014	UNITO	€ 5.000	2015-2017	PI
REPROGR_AM	Compagnia di SanPaolo	€ 75.000	2012-2015	PI
Ricerca Locale 2013	UNITO	€ 5.000	2014-2016	PI
Galileo 2013	Université Italo-Française	€ 2.800	2014	PI
Ricerca Locale 2012	UNITO	€ 3.500	2012-2014	PI

Scientific production

A.G. has produced **90 papers** - including 75 papers included in the Scopus database (www.scopus.com), **14 book chapters** in English and 5 in Italian - and over **100 national and international congress communications**.

Current Scopus parameters for A.G. are:

***h-index* = 29 (Scopus)**

***total citations* = 3391**

***average citations per paper* = 45**

Publications

- Genre, A., Bonfante, P. (1997).** A mycorrhizal fungus changes microtubule orientation in tobacco root cells. *Protoplasma* 199(1-2) 30-38. IF:1.724
- Genre, A., Bonfante, P. (1997).** Microtubule organisation in tobacco root cells colonised by a mycorrhizal fungus. *Atti dell'Accademia delle scienze di Siena detta de' Fisiocritici* ser. 15, 16(Suppl.) 51-52.
- Bonfante, P., Lanfranco, L., Cometti, V., Genre, A. (1997).** Inter- and intraspecific variability in strains of the ectomycorrhizal fungus *Suillus* as revealed by molecular techniques. *Microbiological Research* 152(3) 287-292. IF:0.544
- Genre, A., Bonfante, P. (1998).** Actin versus tubulin configuration in arbuscule-containing cells from mycorrhizal tobacco roots. *New Phytologist* 140(4) 745-752. IF:1.719
- Genre, A., Bonfante, P. (1999).** Cytoskeleton-related proteins in tobacco mycorrhizal cells: gamma-tubulin and clathrin localisation. *European Journal of Histochemistry* 43(2) 105-111. IF:0.384
- Genre, A., Bonfante, P. (2000).** Localizzazione di clatrina e γ -tubulina in radici micorrizzate di tabacco. *Informatore Botanico Italiano* 32(1-3) 97-98.
- Bonfante, P., Genre, A., Faccio, A., Martini, I., Schausser, L., Stougaard, J., Webb, J., Parniske, M. (2000).** The *Lotus japonicus* LjSym4 gene is required for the successful symbiotic infection of root epidermal cells. *Molecular Plant-Microbe Interactions* 13(10) 1109-1120. IF:3.448
- Bonfante, P., Genre, A. (2000).** Outside and inside the roots: AM fungi differently interact with epidermal and cortical cells of their host plants. In: de Wit, P. J. G. M., Bisseling, T., Stiekema, W. J. (eds.), *Biology of Plant-Microbe Interactions, Volume 2: Proceedings of the 9th International Congress on Molecular Plant-Microbe Interactions, Amsterdam, the Netherlands, July 25-30, 1999. International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn.* 214-219. ISBN: 9780965462518.
- Genre, A., Bonfante, P. (2002).** Epidermal cells of a symbiosis-defective mutant of *Lotus japonicus* show altered cytoskeleton organisation in the presence of a mycorrhizal fungus. *Protoplasma* 219(1-2) 43-50. IF:1.473
- Novero, M., Faccio, A., Genre, A., Stougaard, J., Webb, K.J., Mulder, L., Parniske, M., Bonfante, P. (2002).** Dual requirement of the LjSym4 gene for mycorrhizal development in epidermal and cortical cells of *Lotus japonicus* roots. *New Phytologist* 154(3) 741-749. IF:2.945
- Bianciotto, V., Genre, A., Jargeat, P., Lumini, E., Becard, G., Bonfante, P. (2004).** Vertical transmission of endobacteria in the arbuscular mycorrhizal fungus *Gigaspora margarita* through generation of vegetative spores. *Applied and Environmental Microbiology* 70(6) 3600-3608. IF:3.810

12. **Genre, A., Bianciotto, V., Jargeat, P., Lumini, E., Uetake, Y., Becard, G., Bonfante, P. (2004).** Arbuscular mycorrhizal fungi harbor endocellular bacteria. In: *Tikhonovich, I., Lugtenberg, B., Provorov, N. (eds.), Biology of Plant-Microbe Interactions, Volume 4: Proceedings of the 11th International Congress on Molecular Plant-Microbe Interactions, St.-Petersburg, Russia, July 18-26, 2003. International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn. 445-447. ISBN: 0965462536.*
13. **Bonfante, P., Genre, A., Bianciotto, V. (2004).** The colonisation strategies of arbuscular mycorrhizal fungi: an overview of their cellular interactions with plants and bacteria. In: *Frias-Hernández, J. T., Olalde-Portugal, V., Ferrera-Cerrato, R. (eds.), Avance en el conocimiento de la biología de las micorrizas. Universidad de Guanajuato, Guanajuato, México 19-28. ISBN:9688643335.*
14. **Genre, A., Bonfante, P. (2005).** Building a mycorrhizal cell: How to reach compatibility between plants and arbuscular mycorrhizal fungi. *Journal of Plant Interactions* 1(1) 3-13.
15. **Genre, A., Chabaud, M., Timmers, T., Bonfante, P., Barker, D.G. (2005).** Arbuscular mycorrhizal fungi elicit a novel intracellular apparatus in *Medicago truncatula* root epidermal cells before infection. *Plant Cell* 17(12) 3489-3499. IF:11.088
16. **Bonfante, P., Lumini, E., Bianciotto, V., Jargeat, P., Salvioi, A., Genre, A., Blal, B., Novero, M., Faccio, A., Batut, J., Bécard, G. (2006).** Endocellular bacterial/Gigaspora margarita/ host plants: experimental evidences of arbuscular mycorrhizas as tripartite interactions. In: *Sánchez, F., Quinto, C., Lopez-Lara, I. M., Geiger, O. (eds.), Biology of Plant-Microbe Interactions, Volume 5: Proceedings of the 12th International Congress on Molecular Plant-Microbe Interactions, Mérida, Yucatán, México, December 14-19, 2005. International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn. 552-558. ISBN: 9780965462549.*
17. **Bonfante, P., Genre, A., Spanu, P.D. (2006).** Plant-microbe interactions in Yucatan: Hurricanes didn't curb the whirlwind of discovery. *New Phytologist* 170(4) 653-655. IF:4.245
18. **Genre, A., Chabaud, M., Timmers, T., Bonfante, P., Barker, D. (2006).** GFP tagging in *Medicago truncatula* roots reveals a novel plant intracellular apparatus required for arbuscular mycorrhizal colonization. In: *Sánchez, F., Quinto, C., Lopez-Lara, I. M., Geiger, O. (eds.), Biology of Plant-Microbe Interactions, Volume 5: Proceedings of the 12th International Congress on Molecular Plant-Microbe Interactions, Mérida, Yucatán, México, December 14-19, 2005. International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn. 525-530. ISBN: 9780965462549.*
19. **Genre, A., Siciliano, V., Bonfante, P. (2006).** Comunicazioni cellulari e molecolari tra simbionti micorrizici. *Atti della Accademia delle Scienze di Torino. Classe di Scienze Fisiche, Matematiche e Naturali* 140 91-100. ISSN:0001-4419
20. **Gianinazzi-Pearson, V., Séjalon-Delmas, N., Genre, A., Jeandroz, S., Bonfante, P. (2007).** Plants and arbuscular mycorrhizal fungi: cues and communication in the early steps of symbiotic interactions. *Advances in Botanical Research* 46 181-219. IF:3.043
21. **Siciliano, V., Genre, A., Balestrini, R., deWit, P.J.G.M., Bonfante, P. (2007).** Pre-penetration apparatus formation during AM infection is associated with a specific transcriptome response in epidermal cells. *Plant Signaling & Behavior* 2(6) 533-535.
22. **Siciliano, V., Genre, A., Balestrini, R., Cappellazzo, G., deWit, P.J.G.M., Bonfante, P. (2007).** Transcriptome analysis of arbuscular mycorrhizal roots during development of the prepenetration apparatus. *Plant Physiology* 144(3) 1455-1466. IF:6.367
23. **Genre, A., Bonfante, P. (2007).** Check-in procedures for plant cell entry by biotrophic microbes. *Molecular Plant-Microbe Interactions* 20(9) 1023-1030. IF:4.275
24. **Navazio, L., Moscatiello, R., Genre, A., Novero, M., Baldan, B., Bonfante, P., Mariani, P. (2007).** A diffusible signal from arbuscular mycorrhizal fungi elicits a transient cytosolic calcium elevation in host plant cells. *Plant Physiology* 144(2) 673-681. IF:6.367
25. **Navazio, L., Moscatiello, R., Genre, A., Novero, M., Baldan, B., Bonfante, P., Mariani, P. (2007).** The arbuscular mycorrhizal fungus *Glomus intraradices* induces intracellular calcium changes in soybean cells. *Caryologia* 60(1-2) 137-140. IF:0.230
26. **Genre, A. (2008).** Confocal microscopy and plant cell biology: a perfect match. *Plant Biosystems* 142(2) 348-354. IF:0.517
27. **Bonfante, P., Genre, A., Siciliano, V., Guether, M., Gómez-Ariza, J., Faccio, A., Novero, M., Navazio, L., Balestrini, R., Lanfranco, L. (2008).** Dissecting cellular and molecular responses of host plants during early arbuscular mycorrhizal interactions. In: *Lorito, M., Woo, S.L., Scala, F. (eds.), Biology of Plant Microbe Interactions, Volume 6: Proceedings of the 13th International Congress on Molecular Plant Microbe Interactions, Sorrento (Naples), Italy, July 21-27, 2007. International Society for Molecular Plant Microbe Interactions, St. Paul, MN 1-9. ISBN: 9780965462556.*
28. **Genre, A., Chabaud, M., Faccio, A., Barker, D.G., Bonfante, P. (2008).** Prepenetration apparatus assembly precedes and predicts the colonization patterns of arbuscular mycorrhizal fungi within the root cortex of both *Medicago truncatula* and *Daucus carota*. *Plant Cell* 20(5) 1407-1420. IF:9.296
29. **Bonfante, P., Genre, A. (2008).** Plants and arbuscular mycorrhizal fungi: an evolutionary-developmental perspective. *Trends in Plant Science* 13(9) 492-498. IF:9.210
30. **Genre, A., Ortu, G., Bertoldo, C., Martino, E., Bonfante, P. (2009).** Biotic and abiotic stimulation of root epidermal cells reveals common and specific responses to arbuscular mycorrhizal fungi. *Plant Physiology* 149(3) 1424-1434. IF:6.235

31. **Novero, M., Genre, A., Szczyglowski, K., Bonfante, P. (2009).** Root hair colonization by mycorrhizal fungi. In: *Emons, A.M.C., Ketelaar, T. (eds.), Root Hairs. Springer, Berlin* 315-338. ISBN: 9783540794042.
32. **Bonfante, P., Balestrini, R., Genre, A., Lanfranco, L. (2009).** Establishment and functioning of arbuscular mycorrhizas. In: *Deising, H.B. (ed.), The Mycota, V: Plant Relationships. 2nd ed. Springer, Berlin* 259-274. ISBN:9783540874065.
33. **Guether, M., Genre, A., Gómez Ariza, J., Novero, M., Ortu, G., Volpe, V., Faccio, A., Balestrini, R., Bonfante, P. (2010).** Cellular and transcriptional reprogramming of host plants in the presence of arbuscular mycorrhizal fungi. In: *Antoun, H., Avis, T., Brisson, L., Prévost, D., Trepanier, M. (eds.), Biology of Plant-Microbe Interactions, Volume 7: Proceedings of the 14th International Congress on Molecular Plant-Microbe Interactions, Québec, Canada, July 19-23, 2009. International Society for Molecular Plant-Microbe Interactions, St. Paul, Minn.* ISBN:9780965462563.
34. **Genre, A., Bonfante, P. (2010).** The Making of Symbiotic Cells in Arbuscular Mycorrhizal Roots. In: *Koltai, H., Kapulnik, Y. (eds.), Arbuscular Mycorrhizas: Physiology and Function. 2nd ed. Springer, Dordrecht* 57-71. ISBN: 9789048194889.
35. **Bonfante, P., Genre, A. (2010).** Mechanisms underlying beneficial plant–fungus interactions in mycorrhizal symbiosis. *Nature Communications* 1 48.
36. **Chabaud, M., Genre, A., Sieberer, B.J., Faccio, A., Fournier, J., Novero, M., Barker, D.G., Bonfante, P. (2011).** Arbuscular mycorrhizal hyphopodia and germinated spore exudates trigger Ca²⁺ spiking in the legume and nonlegume root epidermis. *New Phytologist* 189(1) 347–355. IF:6.645
37. **Crivelli, G., Ciuffo, M., Genre, A., Masenga, V., Turina, M. (2011).** Reverse genetic analysis of Ourmiaviruses reveals the nucleolar localization of the coat protein in *Nicotiana benthamiana* and unusual requirements for virion formation. *Journal of Virology* 85(10) 5091-5104. IF:5.402
38. **Galetto, L., Bosco, D., Balestrini, R., Genre, A., Fletcher, J., Marzachi, C. (2011).** The Major Antigenic Membrane Protein of “Candidatus *Phytoplasma asteris*” Selectively Interacts with ATP Synthase and Actin of Leafhopper Vectors. *PLoS One* 6(7) e22571 (12pp). IF:4.092
39. **Genre, A. (2011).** Il citoscheletro. In: *Pasqua, G. [et al.], Biologia cellulare e biotecnologie vegetali. Piccin, Padova* 71-88. ISBN: 9788829921249.
40. **Genre, A. (2011).** Microscopia confocale. In: *Pasqua, G. [et al.], Biologia cellulare e biotecnologie vegetali. Piccin, Padova* 199-210. ISBN: 9788829921249.
41. **Genre, A. (2011).** Microscopia e fluorescenza. In: *Pasqua, G. [et al.], Biologia cellulare e biotecnologie vegetali. Piccin, Padova* 187-198. ISBN: 9788829921249.
42. **Genre, A., Lanfranco, L. (2011).** La comunicazione cellulare. In: *Pasqua, G. [et al.], Biologia cellulare e biotecnologie vegetali. Piccin, Padova* 131-143. ISBN: 9788829921249.
43. **Genre, A., Di Sansebastiano, G.P. (2011).** Lo studio della cellula vegetale. In: *Pasqua, G. [et al.], Biologia cellulare e biotecnologie vegetali. Piccin, Padova*, pp 3-12. ISBN: 9788829921249.
44. **Sciacca E, Spinella S, Genre A, Calcagno C (2011)** Analysis of calcium spiking in plant root epidermis through CWC modeling. *Electronic Notes in Theoretical Computer Science*, 277: 65-76.
45. **Genre, A., Ivanov, S., Fendrych, M., Faccio, A., Žárský, V., Bisseling, T., Bonfante, P. (2012).** Multiple exocytotic markers accumulate at the sites of perifungal membrane biogenesis in arbuscular mycorrhizas. *Plant and Cell Physiology* 53(1) 244-255. IF:4.134
46. **Genre, A., Bonfante, P. (2012).** The interface between plants and mycorrhizal fungi: nutrient exchange, signaling and cell organization. In: *Hock, B. (ed.), The Mycota, IX: Fungal Associations. 2nd ed. Springer, Berlin* 39-49. ISBN: 9783642308253.
47. **Ivanov, S., Fedorova, E.E., Limpens, E., De Mita, S., Genre, A., Bonfante, P., Bisseling, T. (2012).** Rhizobium–legume symbiosis shares an exocytotic pathway required for arbuscule formation. *Proceedings of the National Academy of Sciences of the United States of America* 109(21) 8316–8321. IF:9.737
48. **Calcagno, C., Novero, M., Genre, A., Bonfante, P., Lanfranco, L. (2012).** The exudate from an arbuscular mycorrhizal fungus induces nitric oxide accumulation in *Medicago truncatula* roots. *Mycorrhiza* 22(4) 259-269. IF:2.955
49. **Genre, A. (2012).** Signalling and the re-structuring of plant cell architecture in AM symbiosis. In: *Perotto, S., Baluška, F. (eds.), Signaling and communication in plant symbiosis. Springer, Berlin* 51-71. ISBN: 9783642209659.
50. **Genre, A., Chabaud, M., Balzergue, C., Puech-Pagès, V., Novero, M., Rey, T., Fournier, J., Rochange, S., Bécard, G., Bonfante, P., Barker, D.G. (2013).** Short-chain chitin oligomers from arbuscular mycorrhizal fungi trigger nuclear Ca²⁺ spiking in *Medicago truncatula* roots and their production is enhanced by strigolactone. *New Phytologist* 198(1) 190–202. IF:6.736
51. **Veiga, R.S.L., Faccio, A., Genre, A., Pieterse, C.M.J., Bonfante, P., van der Heijden, M.G.A. (2013).** Arbuscular mycorrhizal fungi reduce growth and infect roots of the non-host plant *Arabidopsis thaliana*. *Plant, Cell & Environment* 36 1926-1937. IF:5.135
52. **Volpe, V., Dell'Aglio, E., Giovannetti, M., Ruberti, C., Costa, A., Genre, A., Guether, M., Bonfante, P. (2013).** An AM-induced, MYB-family gene of *Lotus japonicus* (LjMAMI) affects root growth in an AM-independent manner. *The Plant Journal* 73(3) 442–455. IF:6.582
53. **Andrio, E., Marino, D., Marmeys, A., Dunoyer de Segonzac, M., Damiani, I., Genre, A., Huguet, S., Frendo, P., Puppo, A., Pauly, N. (2013).** Hydrogen peroxide-regulated genes in the *Medicago truncatula*–*Sinorhizobium meliloti* symbiosis. *New Phytologist* 198(1) 179–189. IF:6.736

54. Desirò, A., Naumann, M., Epis, S., Novero, M., Bandi, C., Genre, A., Bonfante, P. (2013). Mollicutes-related Endobacteria thrive inside Liverwort-associated Arbuscular Mycorrhizal Fungi. *Environmental Microbiology* 15(3) 822–836. IF:5.756
55. Russo, G., Spinella, S., Sciacca, E., Bonfante, P., Genre, A. (2013). Automated analysis of calcium spiking profiles with CaSA software: two case studies from root-microbe symbioses. *BMC Plant Biology* 13: 224. IF 4.35.
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Congress communications

(*) oral presentations, (**) invited lectures

- 1) P. Bonfante, R. Bergero, A. Genre, X. Uribe, C. Romera, J Rigau, P. Puigdomenech. Activation of a maize β -tubulin promoter and tubulin location in mycorrhizal transgenic tobacco roots. *Plant Roots - From Cells to Systems* 1995, 13-15 september 1995, Bristol, UK.
- 2) A. Genre and P. Bonfante. Microtubule organization in mycorrhizal and uninfected tobacco roots. *Roots*, 28 may - 1 june 1996, Arc et Senans, France.
- 3) P. Bonfante, A. Genre, R. Bergero, P. Puigdomenech. Activation of a maize α -tubulin promoter and tubulin location in mycorrhizal transgenic tobacco roots. ICOM1 - First international conference on mycorrhizae, 4-9 august 1996, Berkeley, CA, USA
- *4) A. Genre and P. Bonfante. Microtubule reorganization in tobacco root cells infected by an arbuscular mycorrhizal fungus. COST-Action 8.21 - Gene expression in arbuscular mycorrhizas, 22-24 may 1997, Torino, Italy.
- *5) A. Genre and P. Bonfante. Organizzazione dei microtubuli in cellule radicali di tabacco colonizzate da un fungo simbiote. *Convegno Nazionale Citologia*, 24-25 june 1997, Siena, Italy.
- 6) A. Genre and P. Bonfante. The presence of a mycorrhizal fungus causes a reorganization in host cell cytoskeleton. 12th meeting of the european cytoskeletal forum, 6-11 september 1997, Siena, Italy.

- 7) P. Bonfante, R. Balestrini, L. Lanfranco, A. Genre, D. Mousain. Caratterizzazione cellulare e molecolare di due ceppi di *Suillus collinitus* (Fr.) Kuntze durante la loro interazione con la pianta ospite. 92° congresso della Società Botanica Italiana, 2-4 October 1997, Cagliari, Italy
- 8) P. Bonfante, A. Genre, E. Martino, C. Plassard, D. Mousain. Early contacts between pine roots and two ectomycorrhizal *Suillus* strains. Mycomed, 26-27 March 1998, Montpellier, France.
- *9) A. Genre and P. Bonfante. Actin versus tubulin configuration in arbuscule-containing cells. Second International Conference on Mycorrhizas, 5-10 July 1998, Uppsala, Sweden.
- 10) M. Parniske, J. Webb, I. Martini, A. Genre, P. Bonfante. Analysis of *Gigaspora* and *Glomus* infection sites in symbiotic mutants of *Lotus japonicus*. Second International Conference on Mycorrhizas, 5-10 July 1998, Uppsala, Sweden.
- *11) A. Genre and P. Bonfante. Localizzazione di Clatrina e β -tubulina in radici micorrizzate di tabacco. Convegno di Citologia Vegetale della Società Botanica Italiana, 17-18 September 1999, Torino, Italy.
- 12) A. Genre and P. Bonfante. Cytoskeleton reorganisation in tobacco root cells colonised by an arbuscular mycorrhizal fungus. 14th Meeting of the European Cytoskeletal Forum, 28 August 2 September 1999, Oeiras, Portugal.
- *13) P. Bonfante and A. Genre. Outside and inside the roots: cell-to-cell interactions between AM fungi and host plants. Molecular Plant-Microbe interactions – 9th international congress, 25-30 July 1999, Amsterdam, The Netherlands
- *14) P. Bonfante, A. Genre, A. Faccio, I. Martini, M. Parniske, K.J. Webb. Un fungo micorrizico arbuscolare produce un'infezione abortiva in un mutante di *Lotus japonicus*. 94° congresso della Società Botanica Italiana, 22-25 September 1999, Ferrara, Italy.
- 15) P. Bonfante, A. Genre, V. Bianciotto. The colonisation strategies of arbuscular mycorrhizal fungi: an overview of the plant/fungal cellular interactions. Reunión Iberoamericana y Simposio Nacional Sobre Simbiosis Micorrizica, 27-29 September 2000, Guanajuato, Mexico.
- *16) A. Genre and P. Bonfante. Cytoskeleton as a key component of an active interface in arbuscular mycorrhizas. COST action 8.38 'Nutrient transport processes in arbuscular mycorrhizas', 25-28 January 2001, Roskilde, Denmark.
- 17) A. Vizzini, A. Genre and P. Bonfante. L'analisi citologica delle ascospore come marker filogenetico delle Tuberaceae. Società Botanica Italiana: Riunione congiunta gruppi di lavoro biotecnologie e differenziamento e organismi geneticamente modificati, 7-9 June 2001, Fano, Italy.
- *18) A. Genre and P. Bonfante. Alterazione del citoscheletro e morte cellulare in un mutante di *Lotus japonicus* colonizzato da un fungo micorrizico arbuscolare. Società Botanica Italiana: Convegno del gruppo di lavoro di biologia cellulare e molecolare, 25-27 June 2001, Roma, Italy.
- 19) A. Genre and P. Bonfante. Altered cytoskeleton organisation in *Lotus japonicus* mutants unable to establish functional mycorrhizas. 16th European Cytoskeletal Forum, 22-26 August 2001 Maastricht, The Netherlands.
- *20) V. Bianciotto, A. Genre, D. Minerdi, S. Abbà, P. Bonfante. Arbuscular mycorrhizal fungi harbour endocellular, unculturable bacteria. 6th European Conference on Fungal Genetics, 6-9 April 2002, Pisa, Italy.
- *21) A. Genre, A. Faccio, G. Accotto, T. Timmers, P. Bonfante. La trasformazione di *Nicotiana tabacum* con il gene MAP4-GFP e la sua applicazione nello studio delle interazioni micorriziche. Riunione Congiunta Gruppi di Lavoro Biotecnologie e Differenziamento Biologia Cellulare e Molecolare della Società Botanica Italiana, 12-14 June 2002, Verona, Italy.
- *22) A. Genre, M. Novero, A. Faccio, P. Bonfante. Mutant plants as a tool to decipher colonisation events of arbuscular mycorrhizal fungi. COST 838 meeting - AM research in Europe, The dawning of a new millenium, 10-12 October 2002, Pisa, Italy.
- *23) A. Genre. MAP4-GFP transformation: a tool to investigate plant microtubule responses to arbuscular micorrhizal fungi. Molecular Mycology Workshop, 11-12 April 2003, Torino, Italy.
- 24) A. Genre, A. Faccio, P. Bonfante. Using the gene MAP4-GFP for studying microtubule responses to arbuscular mycorrhizal fungi. 7th International Botanical Microscopy Meeting - Royal Microscopical Society, 12-17 April 2003, Lisbona, Portugal.
- *25) A. Genre, V. Bianciotto, E. Lumini, P. Bonfante. Lifestyle of endocellular bacteria and their fungal host in arbuscular mycorrhizas. 1st FEMS Congress of European Microbiologists, 29 June - 3 July 2003, Ljubljana, Slovenia.
- *26) P. Bonfante, M. Novero, A. Genre, A. Faccio, L. Lanfranco. The colonization process of *Gigaspora margarita* is controlled by *Lotus japonicus* at different checkpoints. 11th International Congress on Molecular Plant-Microbe Interactions, 18-26 July 2003, St. Petersburg, Russia.
- *27) A. Genre, M. Novero, A. Faccio, L. Lanfranco, P. Bonfante. Genetically defined checkpoints along the colonisation pathway of *Lotus japonicus* roots by an arbuscular mycorrhizal fungus. Fourth International Conference On Mycorrhizas, 10-13 August 2003, Montreal, Canada.
- 28) L. Miozzi, A. Genre, V. Bianciotto, E. Lumini, A. Faccio, P. Jarjeat, G. Bécard, P. Bonfante. Transformed roots: a useful tool to study plant/fungal/bacterial interactions. Fourth International Conference On Mycorrhizas, 10-13 August 2003, Montreal, Canada.
- 29) L. Lanfranco, M. Novero, A. Genre, P. Bonfante. Espressione di una superossidodismutasi Cu-Zn fungina nella simbiosi endomicorrizica. 98° Congresso della Società Botanica Italiana, 24-26 September 2003, Catania, Italy.

- *30) A. Genre, M. Chabaud, T. Timmers, A. Faccio, P. Bonfante, D. Barker. Building an interface compartment: pre-penetration responses of root epidermal cells to arbuscular mycorrhizal fungus contact. X Cell Wall Meeting, 29 August – 3 September 2004, Sorrento, Italy.
- *31) A. Genre, M. Chabaud, A. Faccio, T. Timmers, D. Barker, P. Bonfante. Costruire un'interfaccia: come le piante ospiti rispondono al contatto di un fungo simbiote. 99° Congresso della Società Botanica Italiana, 22-24 September 2004, Torino.
- 32) L. Lanfranco, M. Novero, A. Genre, P. Bonfante. Caratterizzazione di una superossidodismutasi Cu-Zn in un fungo micorrizico arbuscolare. 5° Convegno Federazione Italiana Scienze della Vita 10-13 October 2004, Rimini, Italia.
- *33) A. Genre, M. Chabaud, A.C.J. Timmers, P. Bonfante and D.G. Barker. The cellular mechanism underlying the controlled penetration of arbuscular mycorrhizal fungi into the host root epidermis. 6ème Congrès de la Société Française de Phytopathologie, 23-25 february 2005, Toulouse-Labège, France.
- *34) A. Genre. A novel plant cellular apparatus preparing intracellular compartments for arbuscular mycorrhizal fungi. Mycology Snapshots, 24-26 February 2005, Torino, Italia.
- **35) A. Genre, M. Chabaud, T. Timmers, P. Bonfante, D. Barker. A novel plant cell apparatus required for arbuscular mycorrhizal colonization is revealed by *in vivo* confocal microscopy. COST Action 8.38: Achievements and future landscape for arbuscular mycorrhiza research, 2-4 June 2005, Dijon, France.
- 36) S. Bossi, A. Genre, A. Faccio, G.P. Accotto, P. Bonfante, M. Maffei. *S. littoralis* induces cortical microtubules reorganization, Ca²⁺ and H₂O₂ release in GFP:MAP4-transformed *N. tabacum*. 7° Convegno FISV, 22-25 September 2005, Riva del Garda, Italia.
- 37) C. Gutjahr, M. Novero, A. Genre, T. Wang, P. Bonfante. Prior to colonization *Gigaspora margarita* induces starch accumulation in *Lotus japonicus* roots. XII International Congress on Molecular Plant-Microbe Interactions, 14-19 December 2005, Cancun, Mexico.
- 38) L. Navazio, A. Genre, R. Moscatiello, F. Stupino, B. Baldan, P. Mariani, P. Bonfante. Diffusible molecules released by AM fungi are rapidly perceived by host plant cells and elicit a transient Ca²⁺ elevation. XII International Congress on Molecular Plant-Microbe Interactions, 14-19 December 2005, Cancun, Mexico.
- *39) A. Genre, M. Chabaud, T. Timmers, P. Bonfante, D. Barker. GFP tagging of cell components reveals a novel plant apparatus required for the intracellular colonization of arbuscular mycorrhizal fungi. XII International Congress on Molecular Plant-Microbe Interactions, 14-19 December 2005, Cancun, Mexico. *Invited lecture*.
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- *41) P. Bonfante, E. Lumini, V. Bianciotto, P. Jargeat, A. Salvioli, A. Genre, B. Blal, M. Novero, A. Faccio, J. Batut, B. Methe, G. Becard. Endocellular bacteria / *Gigaspora margarita* / host plants: experimental evidences of arbuscular mycorrhizas as tripartite interactions. XII International Congress on Molecular Plant-Microbe Interactions, 14-19 december 2005, Cancun, Mexico.
- *42) A. Genre, M. Chabaud, T. Timmers, D. Barker, P. Bonfante. Plant cell responses to arbuscular mycorrhizal fungi: a novel intracellular apparatus is required for cell colonization. Mycorrhiza: Systems Research from Genes to Communities, 4-9 March 2006, Ascona, Switzerland.
- 43) J. Fournier, M. Chabaud, A. Jauneau, A. Genre, T. Timmers, D. Barker. Intracellular dynamics in the *Medicago truncatula* root hair associated with rhizobial infection. XV FESPB, 17-21 July 2006, Lyon, France.
- 44) V. Siciliano, A. Genre, P. Bonfante. Eventi cellulari e molecolari legati al contatto pianta-fungo simbiote: costruzione di una libreria SSH e analisi genica Riunione congiunta Gruppi di Lavoro Biologia Cellulare e Molecolare e Biotecnologie e Differenziamento della Società Botanica Italiana. 26-28 June 2006 Alessandria, Italia.
- 45) A. Genre, M. Chabaud, T. Timmers, D. Barker, P. Bonfante. Pre-penetration apparatus: an arbuscular mycorrhiza-specific cell response in root epidermis. 8th International Mycological Congress. 20-25 August 2006, Cairns, Queensland, Australia.
- 46) J. Fournier, M. Chabaud, A. Jauneau, A. Genre, T. Timmers, D. Barker. Intracellular dynamics in the *Medicago truncatula* root hair associated with rhizobial infection. XV Congress of the FESPB. 17-23 July 2006, Lyon, France.
- *47) A. Genre, A. Faccio, M. Chabaud, D. Barker, P. Bonfante. Dissecting fungal/host plant signalling that triggers root epidermal cell responses. ICOM 5, 23-27 July 2006, Granada, Spain.
- 48) V. Siciliano, A. Genre, R. Balestrini, G. Cappellazzo, P.J.G.M. deWit, P. Bonfante. Suppressive subtractive hybridization to detect plant genes expression during early stages of arbuscular mycorrhizal symbiosis. ICOM 5, 23-27 July 2006, Granada, Spain.
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- 51) A. Genre, V. Siciliano, L. Navazio, P. Bonfante. Cellular and molecular events during early arbuscular mycorrhizal interactions. IRC 2007, 4-6 march 2007, Giessen, Germany.
- 52) A. Genre, P. Bonfante. Biotic and abiotic stimulation to dissect plant cell responses to arbuscular mycorrhizal fungi. Keystone Symposium on Plant Cell Biology, 23-28 march 2007, Coeur d'Alene, Idaho, USA
- *53) A. Genre, P. Bonfante. Dissection of plant cell responses to arbuscular mycorrhizal fungi reveals an unpredicted role for DMI3, a calcium/calmodulin-dependent kinase. XIII IS-MPML meeting, 21-27 july 2007, Sorrento, Italy
- 54) P. Bonfante, A. Genre, V. Siciliano, J. Gomez Arisa, A. Faccio, L. Navazio, R. Balestrini, L. Lanfranco. Dissecting cellular and molecular responses of host plants during early arbuscular mycorrhizal interactions. XIII IS-MPML meeting, 21-27 july 2007, Sorrento, Italy
- *55) A. Genre, P. Bonfante. Microscopia confocale e proteine fluorescenti: nuovi scenari nelle interazioni micorriziche arbuscolari. 102° Congresso della Società Botanica Italiana, 26-29 september, Palermo, Italy.
- **56) A. Genre, C. Bertoldo, P. Bonfante. Dissection of early epidermal cell responses to arbuscular mycorrhizal fungi through biotic and abiotic stimuli. JJC 2012, 20-24 january 2008, Aussois, France
- 57) A. Genre, M. Chabaud, A. Faccio, D. G. Barker, P. Bonfante. Plant subcellular dynamics prefigure arbuscular mycorrhizal colonization of the root cortex. FESPB 2008, 17-22 august 2008, Tampere, Finland.
- *58) A. Genre, M. Guether, R. Balestrini, P. Bonfante. Cellular and molecular plant responses to AM fungi. 25th Fungal Genetics Conference, 17-22 march 2009, Asilomar, CA, USA.
- **59) A. Genre, M. Chabaud, S. Ivanov, A. Faccio, E. Fedorova, D. Barker, T. Bisseling, P. Bonfante. Illuminating an arbuscular mycorrhizal cell: who does what in the prepenetration responses? ICOM 6, 9-14 august 2009, Belo Horizonte, Brazil.
- 60) D.G. Barker, B.J. Sieberer, M. Chabaud, A.C.J. Timmers, A. Genre, P. Bonfante, J. Fournier. Plant cellular mechanisms regulating endosymbiotic root infection by rhizobia and arbuscular mycorrhizal fungi. 9th IPMB Congress, 25-30 october 2009, St. Louis, MO, USA
- 61) L. Lanfranco, C. Calcagno, M. Novero, A. Genre, P. Bonfante. Accumulo di ossido nitrico durante le fasi precoci della simbiosi micorrizica arbuscolare. Riunione congiunta Gruppi Biotecnologie e Differenziamento SBI, 22-24 june, Parma, Italy
- *62) A. Genre, A. Faccio, M. Chabaud, D. Barker, P. Bonfante. Dinamiche cellulari associate alla colonizzazione da parte di funghi micorrizici arbuscolari. Riunione congiunta Gruppi Biotecnologie e Differenziamento SBI, 22-24 june, Parma, Italy
- *63) A. Genre, A. Faccio, M. Chabaud, S. Ivanov, D. Barker, P. Bonfante. The role of membrane dynamics in the accommodation of arbuscular mycorrhizal fungi inside the cells of their host plants. SIBV congress, 30 june - 2 july 2009, Verona, Italia.
- 64) C. Calcagno, L. Lanfranco, M. Novero, A. Genre, P. Bonfante. Nitric oxide accumulation during the early stages of the arbuscular mycorrhizal symbiosis. SIBV congress, 30 june - 2 july 2009, Verona, Italia.
- **65) A. Genre, P. Bonfante. Molecular signaling and cellular responses controlling root colonization by arbuscular mycorrhizal fungi. Molecular Dialogue in Host-Parasite Interaction. 18-19 november 2010, Bruxelles, Belgium.
- **66) A. Genre, M. Chabaud, S. Ivanov, V. Zarsky, T. Bisseling, D. Barker, P. Bonfante. Building the interface between plants and arbuscular mycorrhizal fungi: molecular signalling and cellular mechanisms. IMC 9, 1-6 august 2010, Edinburgh, UK.
- **67) A. Genre. Molecular signaling and cellular mechanisms at the basis of root colonization by arbuscular mycorrhizal fungi. Indo - Italian workshop on bacteria & fungi for environmental sustainability. 29 november - 1 december 2010, New Delhi, India.
- 68) M. Chabaud, A. Genre, B.J. Sieberer, A. Faccio, J. Fournier, M. Novero, D.G. Barker, P. Bonfante. Ca²⁺ spiking is elicited in the plant root epidermis in response to both symbiotic fungal hyphopodia and germinated spore exudates. Plant calcium signaling 2012, 31 august - 4 september 2010, Münster, Germany.
- *69) A. Genre, M. Chabaud, M. Novero, A. Faccio, D. Barker, P. Bonfante. Calcium spiking in arbuscular mycorrhizas: the who and where of presymbiotic signaling. Convegno congiunto AGI-SIBV-SIGA, 19-22 september, Assisi, Italy.
- 70) M. Chabaud, A. Genre, B.J. Sieberer, J. Fournier, P. Bonfante, D.G. Barker. A novel Ca²⁺ spiking assay for mycorrhizal-specific symbiotic signals. Model Legume Congress, 15-19 may 2011, Sainte Maxime, France.
- *71) A. Genre, M. Chabaud, S. Ivanov, V. Zarsky, T. Bisseling, D. Barker, P. Bonfante. Perifungal membrane biogenesis in arbuscular mycorrhizas. RMS Conference, 16-21 april, Wageningen, The Netherlands.
- *72) A. Genre, G. Russo, M. Chabaud, S. Ivanov, A. Faccio, M. Novero, V. Zarsky, D. Barker, P. Bonfante. Biogenesi dell'interfaccia simbiotica nelle micorrize arbuscolari: segnali e meccanismi cellulari. Riunione congiunta Gruppi Biotecnologie e Differenziamento SBI, 18-20 june 2012, Abano, Italy
- 73) G. Russo, S. Spinella, A. Genre, A. Sciacca, P. Bonfante. Effects of phosphate availability on pre-symbiotic signaling in the arbuscular mycorrhizal symbiosis. Plant Biology Congress FESPB / EPSO, 29 july - 3 august 2012, Freiburg, Germany.
- 74) B. Lace, A. Genre, S. Woo, M. Lorito, P. Bonfante. Trichoderma and Gigaspora: a cellular analysis of the interaction between a mycotrophic fungus and a mycorrhizal fungus. Plant Biology Congress FESPB / EPSO, 29 july - 3 august 2012, Freiburg, Germany.
- 75) A. Genre, M. Chabaud, V. Puech-Pagés, C. Balzergue, S. Rochange, G. Bécard, P. Bonfante, D. Barker. Short chitin oligomers from arbuscular mycorrhizal fungi trigger NFP-independent Ca²⁺ spiking in *Medicago truncatula*. XV IS-MPML Congress, 29 july - 2 august 2012, Kyoto, Japan.

- **76) A. Genre, S. Ivanov, M. Fendrych, G. Russo, A. Faccio, V. Zársky, T. Bisseling, P. Bonfante. Visualising perifungal membrane biogenesis in living arbuscular mycorrhizal root. XV IS-MPMI Congress, 29 July – 2 August 2012, Kyoto, Japan.
- **77) A. Genre, M. Chabaud, S. Ivanov, G. Russo, V. Zarsky, T. Bisseling, D. Barker, P. Bonfante. Signalisation présymbiotique et biogenèse de l'interface lors de la symbiose mycorrhizienne à arbuscules. Journées Francophones des Mycorhizes, 5-7 September 2012, Nancy, France.
- **78) A. Genre, M. Chabaud, S. Ivanov, V. Puech-Pages, C. Balzergue, G. Russo, S. Rochange, V. Zarsky, T. Bisseling, G. Bécard, D. Barker, P. Bonfante. Presymbiotic signaling and interface biogenesis in arbuscular mycorrhizas 1st Molecular Mycorrhiza Meeting, 6-7 September 2012, Munich, Germany.
- 79) M. Chabaud, A. Genre, C. Balzergue, V. Puech-Pagès, S. Rochange, J. Fournier, G. Bécard, P. Bonfante, D.G. Barker. Chitin oligosaccharides secreted by arbuscular mycorrhizal fungi trigger Ca²⁺ spiking in *M. truncatula* roots independent of nod factor perception. 1st Molecular Mycorrhiza Meeting, 6-7 September 2012, Munich, Germany.
- 80) G. Russo, S. Spinella, E. Sciacca, P. Bonfante, A. Genre. The CaSA software performs an automated analysis of calcium spiking profiles: two case studies from root-microbe symbioses. EMBL advanced course on imaging techniques, 24-28 June 2013, Heidelberg, Germany.
- **81) A. Genre, M. Chabaud, S. Ivanov, G. Russo, V. Zarsky, T. Bisseling, D. Barker, P. Bonfante. Fungal recognition and accommodation in arbuscular mycorrhizal plants. XII fungal biology conference, 29 September – 3 October 2013, Karlsruhe, Germany.
- 82) A. Moglia, L. Goitre, S. Gianoglio, E. Baldini, A. Genre, L. Trabalzini, J. Beekwilder, S.F. Retta. Metabolic engineering of *Saccharomyces cerevisiae* for the production of plant derived antioxidants. FEBS-EMBO 2014, 30 August - 4 September 2014, Paris, France.
- **83) A. Genre. Presymbiotic signals and biogenesis of the symbiotic interface in arbuscular mycorrhizas. 2nd Adam Kondorosi Symposium: Frontiers in Legume Biology, December 11-12, 2014, Gif-sur-Yvette, France.
- **84) Genre A., Chabaud M., Ivanov S., Russo G., Zarsky S., Bisseling T., Barker D., Bonfante P. Visualizing symbiotic interface biogenesis in living arbuscular mycorrhizas. 18th International Microscopy Congress, 7 - 12 September, 2014, Prague, Czech Republic.
- **85) G. Russo, S. Spinella, E. Sciacca, P. Bonfante, A. Genre. Automatic analysis of calcium spiking profiles in root-microbe symbioses: introducing the CaSA software. 18th International Microscopy Congress, 7 - 12 September, 2014, Prague, Czech Republic.
- **86) A. Genre. Presymbiotic signaling and fungal accommodation in arbuscular mycorrhizas. Séminaires Federation de Recherche. 20 February 2014, Toulouse, France.
- **87) A. Genre, G. Russo. Roots for rent - glomeromycete accommodation in the host tissues. 2nd International Molecular Mycorrhiza Meeting. 2-4 September 2015. Cambridge, UK.
- **88) G. Russo, M. Chiapello, M. Novero, P. Bonfante, A. Genre. Presymbiotic signaling in arbuscular mycorrhizas. 8th Congress of the International Symbiosis Society. 12-18 July, 2015. Lisbon, Portugal.
- **89) A. Genre. Fungal signalling and accommodation in arbuscular mycorrhizas. Spotlight on Microbiology. 16 September 2015. Marburg, Germany.
- **90) A. Genre, P. Bonfante. This way in - recognition and accommodation of arbuscular mycorrhizal fungi by their host plants. 36th New Phytologist Symposium: Cell biology at the plant-microbe interface. 28 November - 1 December 2015, Munich, Germany.
- **91) A. Genre, G. Carotenuto. Investigating cell division mechanisms in the accommodation of arbuscular mycorrhizal fungi. Invited seminar at IPMC - CNRS/INRA. 13 June 2016, Sophia-Antipolis, France.
- **92) A. Genre. La simbiosi micorrizica. Funghi che lavorano (anche) per noi. Invited lecture at Dept. of Agronomy, University of Padova. 16 January 2017, Padova, Italy.
- **93) A. Genre. Welcoming a symbiont: fungal signaling and accommodation in arbuscular mycorrhizas. Invited seminar at Dept. of Agronomy, University of Padova. 17 January 2017, Padova, Italy.
- **94) A. Genre. Piante e funghi: all'origine di una simbiosi utile e antica. Invited talk at 'La scienza si racconta' – UNITO/CSP. 26 January 2017, Torino, Italy.
- **95) A. Genre. Signaling between arbuscular mycorrhizal fungi and their host plants. Invited seminar at IRNA-Labex TULIP Center. 20 March 2017, Toulouse, France.
- **95) G. Carotenuto, V. Volpe, G. Russo, J. de Almeida Engler-A. Genre. Endoreduplication and prepenetration responses in arbuscular mycorrhizas. Riunione annuale dei Gruppi "Biologia Cellulare e Molecolare" e "Biotecnologie e Differenziamento" della Società Botanica Italiana. 15-16 June 2017, Milano, Italy.
- **96) G. Russo, G. Carotenuto, V. Fiorilli, V. Volpe, M. Chiapello, D. VanDamme, A. Genre. TPLATE expression and localization reveal the involvement of cell division- and endocytosis-related processes in arbuscular mycorrhizal colonization. 3rd International Molecular Mycorrhiza Meeting. 26-28 July 2017, Toulouse, France.
- 97) G. Carotenuto, V. Volpe, G. Russo, J. de Almeida Engler-A. Genre. Investigating the role of endoreduplication in arbuscular mycorrhizas. 3rd International Molecular Mycorrhiza Meeting. 26-28 July 2017, Toulouse, France.
- 98) A. Genre, A. Crosino, F. Spina, Carotenuto G, Volpe V, Politi M, Varese C, Gobetto R, Prandi C. Fungal biomass-derived chito-oligosaccharides to be used as biostimulants of arbuscular mycorrhiza development. IFIB18 - International Forum on Industrial Biotechnology and Bioeconomy. 27-28 September 2018. Torino, Italy.

- *99) G. Carotenuto, V Volpe, G. Russo, J. de Almeida Engler, A. Genre. Investigating the role of endoreduplication in arbuscular mycorrhizas. 113° Congresso della Società Botanica Italiana. 12-15 September 2018. Fisciano, Italy.
- 100) Volpe V, Oddi L, Carotenuto G, Forte TGW, Giovannetti G, Barni E, Salvioli A, Lanfranco L, Bonfante P, Bergese M, Capaldo S, Siniscalco C, Genre A. AM for Quality - Use of chitin oligomers to enhance forage plant mycorrhization and crop quality. 113° Congresso della Società Botanica Italiana. 12-15 September 2018. Fisciano, Italy.
- 101) Carotenuto G, Volpe V, Politi M, Oddi L, Barni E, Giovannetti G, Siniscalco C, Genre A. AM for quality - use of chito-oligosaccharides to enhance plant mycorrhization and forage quality. AgroSym2018. 04-07 October 2018, Jahorina, Bosnia and Herzegovina.
- 102) Volpe V, Carotenuto G, Berzero C, Genre A. Chito-oligosaccharide treatment anticipates and enhances arbuscular mycorrhizal colonization. AgroSym2018. 04-07 October 2018, Jahorina, Bosnia and Herzegovina.
- *103) Sciascia IA, Carotenuto G, Genre A. Assessing plant cell ploidy through confocal image analysis methods. Statistics and Data Science - New Developments for Business and Industrial Applications. 24-25 May 2018, Torino, Italy.
- 104) Oddi L, Carotenuto G, Volpe V, Politi M, Barni E, Giovannetti G, Siniscalco C, Genre A. AM for quality - use of chito-oligosaccharides to enhance plant mycorrhization and forage quality. 4th International Molecular Mycorrhiza Meeting. 6-8 February 2019, Torino, Italy.
- 105) Volpe V, Carotenuto G, Berzero C, Genre A. Chito-oligosaccharide treatment anticipates and enhances arbuscular mycorrhizal colonization. 4th International Molecular Mycorrhiza Meeting. 6-8 February 2019, Torino, Italy.
- *106) G. Carotenuto, V Volpe, G. Russo, IA. Sciascia, J. de Almeida Engler, A. Genre. Local endoreduplication is associated with the accommodation of an arbuscular mycorrhizal fungus in *Medicago truncatula*. 4th International Molecular Mycorrhiza Meeting. 6-8 February 2019, Torino, Italy.
- 107) Ercole E, Novero M, Renna M, Malfatto VM, Lussiana C, Bergese M, Gallo G, Giovannetti G, Capaldo S, Genre A, Battaglini LM, Salvioli di Fossalunga A. Microbiota dynamics in alfalfa roots after inoculum application: a perspective for sustainable farming. 4th International Molecular Mycorrhiza Meeting. 6-8 February 2019, Torino, Italy.
- **108) A. Genre. Fungal signalling and accommodation in arbuscular mycorrhizas. Invited seminar at the Department of Biology, University of Padova. 22 May 2019, Padova, Italy.
- 109) G. Carotenuto, V. Volpe, G. Russo, V. Fiorilli, M. Chiapello, M. Politi, IA. Sciascia, J. de Almeida Engler, D. Van Damme, A. Genre. Plant cell cycle reactivation for fungal accommodation in arbuscular mycorrhizas. Riunione annuale dei gruppi di Biotecnologie e Differenziamento della Società Botanica Italiana. 12-14 June 2019, Napoli, Italy.
- *110) Sciascia IA, Carotenuto G, Genre A. Latent class analysis of endoreduplicated nuclei in confocal microscopy. SIS 2019 - Smart statistics for smart applications. 18-21 June 2019, Milano, Italy.