

Curriculum Vitae



Dr. Luana GIORDANO

Personal information

Work address	Laboratory of Plant Protection Service Lombardy Region, c/o Fondazione Minoprio, Viale Raimondi 54, 22070 Como, Italy
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E-mail	luana_giordano_cnt@regione.lombardia.it
Nationality	Italian
Date and city of birth	09/11/1979, Rivoli - Torino (Italy)

Curriculum vitae summary

Dr. Giordano, MSc in Forestry and Environmental Sciences and PhD in Agricultural, Forest and Food Sciences, is currently **head and technician of the Mycology Section of the Laboratory of Plant Protection Service Lombardy Region (Italy)**. Giordano's activity is focused on the identification and diagnosis of plant diseases caused by fungi and oomycetes, included in quarantine and non-quarantine lists, in compliance with technical protocols recognised at national and European level (EPPO standards, IPPC-ISPMS) and updated in line with technological advances and relevant official validations. She works within an accredited system according to UNI CEI EN ISO/IEC 17025:2018 from 2020.

From 2004 to 2019, Dr. Giordano was researcher in plant pathology at the University of Torino (Italy).

In over 17 years of experience, Dr. Giordano has gained mycological skills and competences for the identification of fungal plant pathogens through traditional techniques (based on macro- and micromorphological features by using fungal taxonomic keys) and molecular techniques (conventional PCR, multiplex-PCR, LAMP and real-time PCR). She has discovered and described some fungal diseases new for Italy or for the plant host as well as she has significantly contributed to the development of new molecular methods for the early detection of some important fungal plant pathogens.

In particular, during the academic work experience, Dr. Giordano has been engaged in several local, national and international research projects focused on the study of biology, ecology and epidemiology of native *Heterobasidion* species and the North American species *H. irregulare* Garbel. & Otrrosina (invasive species in Italy). Studies have been also focused on interactions between *H. annosum* (Fr.) Bref. and *H. irregulare* (e.g., hybridization). Potential biological control strategies to contain *Heterobasidion* spp. were also studied. The results of Giordano's research activities led to the inclusion of *H. irregulare* within the A2 list by the European and Mediterranean Plant Protection Organization (EPPO) in 2015, with consequent recommendations for regulation in EU. In addition, Giordano's studies contributed to the publication of "**EPPO PM 7/140 (1) *Heterobasidion irregulare***" (see "Complete list of scientific publications"). In addition, Dr. Giordano was appointed by European and Mediterranean Plant Protection Organisation (EPPO) as member of **Expert Working Group (EWG)** in order to prepare the "**EPPO PM 9/ 28 (1) *Heterobasidion irregulare*: procedures for official control**".

Giordano's scientific activity is documented by **145 publications**, including 33 papers published in international ISI journals with impact factor, 3 books and a collaboration on the editing of an international reference book in the field of forest pathology (2013 - *Infectious Forest Diseases*. CAB International) (see "Complete list of scientific publications"). To date, the cumulative impact factor that Dr. Giordano has achieved with publications on ISI journal attains 97.312. According to Scopus (last accessed on May 30, 2022), the bibliometric indices encompass a *h*-index attaining 13 and 418 citations on 311 documents, deriving from 33 research papers currently indexed by Scopus and Orcid.

Additional details of Dr. Giordano's *curriculum vitae* are listed in the following pages:

- Educational qualifications
- Work experiences
- National Scientific Qualification
- Complete list of scientific publications
- Patent
- Editorial activities
- Awards
- Contributions and participations in national and international conferences
- Participation in research projects
- Teaching experiences
- Personal skills and competences
- EN ISO/IEC 17025 Accreditation and participation at PT (Proficiency Test) and TPS (Test Performance Study)

1. Educational qualifications

- **Visiting Scientist (Scholar)** University of California at Berkeley (USA), Dept. of Environmental Science, Policy and Management – Division of Ecosystem Sciences. ‘World Wide Style 2 (WWS2)’ Program, University of Torino, Italy – November 1-December 14, 2015.
- **Ph.D.** in Agricultural, Forestry and Food Sciences – Department of Exploitation and Protection of the Agricultural and Forestry Resources, sector of Plant Pathology, Faculty of Agriculture, University of Torino, Italy – November 3, 2008.
Dissertation title: “*Biotic and abiotic factors associated with forest declines in the Alps*”.
- **M.Sc.** in Forestry and Environmental Sciences (110/110 *cum laude* and awards) – Faculty of Agriculture, University of Torino, Italy – February 27, 2004.
Dissertation title: “Study on *Sphaeropsis sapinea* populations in Austrian pine forests of Piedmont focused on control strategies of the pathogen”.
- **Secondary Education Certificate** with scientific orientation (60/60) – Liceo Scientifico Statale Marie Curie (secondary school), Grugliasco (Torino, Italy) – July, 1998.

2. Work experiences

- **January 15, 2020 – Today:** Head and technician of the Mycology Section of the Laboratory of Plant Protection Service Lombardy Region (Italy).
- **December 28, 2018 – January 14, 2020:** Post-Doc Research fellowship (assegno di ricerca) assigned by public selection and funded by DISAFA for the Project “*DENDROCLEAN: trees to clean up contaminated soils*” (GRANT NUMBER: CSTO160891) – DISAFA (ex DIVAPRA, sector of Plant Pathology), University of Torino.
- **March 12, 2018:** Member of Expert Working Group (EWG) appointed by European and Mediterranean Plant Protection Organisation (EPPO) to develop a National Regulatory Control System (EPPO PM9 Standard) for *Heterobasidion irregulare*.
EPPO (2019) PM 9/28 *Heterobasidion irregulare*: procedures for official control. OEPP/EPPO Bulletin, pp. 1-6; ISSN: 0250-8052, DOI: 10.1111/epp.12620.
- **December 28, 2015 – December 27, 2018:** Fixed-term Researcher in Plant Pathology. Assigned by public selection – DISAFA (ex DIVAPRA, sector of Plant Pathology), University of Torino.
- **May 1, 2015 – December 27, 2015:** Post-Doc Research fellowship (assegno di ricerca) assigned by public selection and funded by DISAFA for the Project “*EMPHASIS - Effective Management of Pests and Harmful Alien Species - Integrated Solutions*” (Program HORIZON 2020) – DISAFA (ex DIVAPRA, sector of Plant Pathology), University of Torino.
- **March 2, 2015 – April 30, 2015:** Post-Doc grant assigned by public selection and funded by DISAFA for the Project “*Epidemiology of Gnomoniopsis castanea and other chestnut pathogens*” – DISAFA (ex DIVAPRA, sector of Plant Pathology), University of Torino.
- **March 1, 2013 – February 28, 2015:** Post-Doc Research fellowship (assegno di ricerca) assigned by public selection and co-funded by the Italian Ministry of Education, University, and Research for the Project “*Experiments on the sanitation of chestnut trees affected by chestnut blight*” – DISAFA (ex DIVAPRA, sector of Plant Pathology), University of Torino.
- **March 1, 2011 – February 28, 2013:** Post-Doc Research fellowship (assegno di ricerca) assigned by public selection and co-funded by the Piedmont Region for the Project “*Study on fungal communities associated with forest decline*” – DIVAPRA, sector of Plant Pathology, University of Torino.
- **July 1, 2009 – February 28, 2011:** Post-Doc Research fellowship (assegno di ricerca) assigned by public selection and co-funded by the Piedmont Region for the Project “*Study on fungal communities associated with forest decline*” – DIVAPRA, sector of Plant Pathology, University of Torino.
- **February 25, 2009 – June 30, 2009:** Post-graduate grant assigned by public selection and funded by the Piedmont and Aosta Valley Regions for INTERREG ALCOTRA Project – DIVAPRA, sector of Plant Pathology, University of Torino.
- **February 21, 2007 – February 21, 2009:** Post-graduate grant assigned by public selection and funded by the Piedmont and Aosta Valley Regions for INTERREG Project (Italy-Switzerland) “*Interreg: Scots pine*” – DIVAPRA, sector of Plant Pathology, University of Torino.
- **February 21, 2005 – February 20, 2007:** Post-graduate grant assigned by public selection and funded by the Piedmont Region for INTERREG Project (Italy-Switzerland) “*Scots pine decline in the Alps*” – DIVAPRA, sector of Plant Pathology, University of Torino.

- **October 15 – November 25, 2004:** Contract of occasional employee to DIVAPRA, sector of Plant Pathology, University of Torino.
- **April 5 – September 30, 2004:** Voluntary attending of DIVAPRA laboratories, sector of Plant Pathology, University of Torino.
- **September 16 – December 10, 2002:** Practical training to DIVAPRA, sector of Plant Pathology, University of Torino.

3. National scientific qualification

National scientific qualification (Abilitazione Scientifica Nazionale – ASN) to function as a university professor, full or associate – Disciplinary area 07/D1 Plant Pathology and Entomology (30-07-2018 to 30-07-2024).

4. Complete list of scientific publications

145 publications divided as follows:

- 33 articles in ISI journals;
- 10 articles in national journals with referee;
- 25 technical articles in national or regional journals with scientific committee;
- 23 abstracts in ISI journals;
- 4 *in extenso* articles in proceedings of national and international conferences;
- 28 abstracts in proceedings of national and international conferences;
- 1 abstract in international journal with referee;
- 3 abstracts in national journals;
- 2 *in extenso* articles in national journals;
- 3 books;
- 1 book Editorial Assistanship;
- 1 chapter book;
- 2 proceedings of national and international conferences;
- 2 translations in national journals with scientific committee;
- 7 other original publications;
- 1 multimedia contribution.

Cumulative Impact Factor: 97.312

Maximum Impact Factor: 7.433

H-index by Expertly curated abstract & citation database (Scopus): 13

418 total citations by 311 documents – Scopus last access May 30, 2022

Scopus Author ID: 36061707900

Orcid ID: orcid.org/0000-0003-1686-6338

Web of Science ResearcherID is H-9033-2019

Articles in ISI journals

1. Lione G., Brescia F., **Giordano L.**, Gonthier P. (2022) Effects of seasonality and climate on the propagule deposition patterns of the chestnut blight pathogen *Cryphonectria parasitica* in orchards of the Alpine district of NorthWestern Italy. *Agriculture* 12: 644, ISSN: 2077-0472, DOI: <https://doi.org/10.3390/agriculture12050644> (IF: 2.925) cited in 0 documents (Scopus: last access 30/05/2022).
2. Lione G., **Giordano L.**, Sillo F., Brescia F., Gonthier P. (2021) Temporal and spatial propagule deposition patterns of the emerging fungal pathogen of chestnut *Gnomoniopsis castaneae* in orchards of north-western Italy. *Plant Pathology* 70(9): 2016-2033, ISSN: 1365-3059, DOI:10.1111/ppa.13451 (IF: 2.590) cited in 0 documents (Scopus: last access 30/05/2022).
3. **Giordano L.**, Giorcelli A., Chiarabaglio P.M., Gennaro M., Lione G., Massa N., Berta G., Lingua G., Gonthier P., Gullino M.L. (2021) Dendroremediation perspectives to improve and restore urban and periurban heavy metals-contaminated soils. *Acta Horticulturae* 1331: 187-194 - ISSN 2406-6168, DOI: 10.17660/ActaHortic.2021.1331.26, cited in 0 documents (Scopus: last access 30/05/2022).
4. Sillo F., Garbelotto M., **Giordano L.**, Gonthier P. (2021) Genic introgression from an invasive exotic fungal forest pathogen increases the establishment potential of a sibling native pathogen. *NeoBiota* 65: 109-136 - ISSN: 1314-2488 (IF: 2.643) cited in 3 documents (Scopus: last access 30/05/2022).

5. Pellicciaro M., Lione G., **Giordano L.**, Gonthier P. (2021) Biocontrol potential of *Pseudomonas protegens* against *Heterobasidion* species attacking conifers in Europe. *Biological Control* 157: 104583 - ISSN: 1049-9644, DOI.org/10.1016/j.biocontrol.2021.104583 (IF: 2.754) cited in 5 documents (Scopus: last access 30/05/2022).
6. **Giordano L.**, Gonthier P., Negro F., Zanuttini R., Cremonini C. (2020) Effectiveness of new molecules against widespread moulds for food-safe hardwood and softwood packaging. *European Journal of Wood and Wood Products* 79: 227-236 - ISSN 1436-736X, DOI.org/10.1007/s00107-020-01626-6 (IF: 1.542) cited in 1 document (Scopus: last access 30/05/2022).
7. Lione G., **Giordano L.**, Turina M., Gonthier P. (2020) Hail-induced infections of the chestnut blight pathogen *Cryphonectria parasitica* depend on wound size and may lead to severe diebacks. *Phytopathology* 110: 1280-1293 - ISSN: 0031-949X, DOI.org/10.1094/PHYTO-01-20-0006-R (IF: 3.264) cited in 11 documents (Scopus: last access 30/05/2022).
8. Gonthier P., **Giordano L.**, Zampieri E., Lione G., Vizzini A., Colpaert J.V., Balestrini R. (2019) An ectomycorrhizal symbiosis differently affects host susceptibility to two congeneric fungal pathogens. *Fungal Ecology* 39: 250-256 - ISSN: 1754-5048, DOI: 10.1016/j.funeco.2018.12.008 (IF: 2.656), cited in 9 documents (Scopus: last access 30/05/2022).
9. **Giordano L.**, Gonthier P., Lione G., Garbelotto M. (2019) The invasiveness of a non-native fungal forest pathogen is boosted by the presence of a congeneric native species. *Forestry* 92: 157-166 - ISSN: 0015-752X, DOI: 10.1093/forestry/cpy042 (IF: 2.293), cited in 5 documents (Scopus: last access 30/05/2022).
10. Vezzola L.C., Michelozzi M., Calamai L., Gonthier P., **Giordano L.**, Cherubini P., Pelfini M. (2019) Tree-ring volatile terpenes show potential to indicate fungal infection in symptomatic mature Norway spruce trees in the Alps. *Forestry* 92: 149-156 - ISSN: 0015-752X, DOI: 10.1093/forestry/cpy041 (IF: 2.293), cited in 5 documents (Scopus: last access 30/05/2022).
11. Beccaro G.L., Alma A., Gonthier P., Mellano M.G., Ferracini C., **Giordano L.**, Lione G., Donno D., Boni I., Ebone A., Raina E., Rocca M., Bounous G. (2018) Chestnut R&D Centre, Piemonte (Italy): 10 Years of activity. 6th International Chestnut Symposium, International Society for Horticultural Science – Samsun, Turchia, 9-13 Ottobre 2017. *Acta Horticulturae* 1220: 133-140 - ISSN 2406-6168, DOI: 10.17660/ActaHortic.2018.1220.20, cited in 0 document (Scopus: last access 30/05/2022).
12. **Giordano L.**, Sillo F., Garbelotto M., Gonthier P. (2018) Mitonuclear interactions may contribute to fitness of fungal hybrids. *Scientific Reports – Nature* 8: 1706 – ISSN 2045-2322, DOI: 10.1038/s41598-018-19922-w (IF: 4.011), cited in 16 documents (Scopus: last access 30/05/2022).
13. Sillo F., Gianchino C., **Giordano L.**, Mari M., Gonthier P. (2018) Local epidemiology of the wood decay agent *Laetiporus sulphureus* in carob stands in Sicily. *Forest Pathology* 48: e12414 – ISSN: 1437-4781, DOI: <https://doi.org/10.1111/efp.12414> (IF: 1.434), cited in 0 document (Scopus: last access 30/05/2022).
14. **Giordano L.**, Sillo F., Martinis R., Rettori A., Gonthier P. (2018) Needle disinfection and bioptic wood sampling achieved with a disposable for drill resistance measurement devices. *Urban Forestry & Urban Greening* 30: 32-36 – ISSN: 1618-8667, DOI: <https://doi.org/10.1016/j.ufug.2018.01.009> (IF: 3.043), cited in 1 document (Scopus: last access 30/05/2022).
15. Sillo F., **Giordano L.**, Gonthier P. (2018) Fast and specific detection of the invasive forest pathogen *Heterobasidion irregulare* through a Loop-mediated isothermal AMPLification (LAMP) assay. *Forest Pathology* 48: e12396 – ISSN: 1437-4781, DOI: 10.1111/efp.12396 (IF: 1.434), cited in 17 documents (Scopus: last access 30/05/2022).
16. **Giordano L.**, Giorcelli A., Gonthier P., Gullino M.L. (2017) First report of leaf rust caused by *Melampsora magnusiana* on *Populus alba* in Italy. *Journal of Plant Pathology* 99(2): 535 – ISSN: 2239-7264, DOI: <http://dx.doi.org/10.4454/jpp.v99i2.3873> (IF: 0.944), cited in 2 documents (Scopus: last access 30/05/2022).
17. Zampieri E. and **Giordano L. (authors have contributed equally to this work)**, Lione G., Vizzini A., Sillo F., Balestrini R., Gonthier P. (2017) A non-native and a native fungal plant pathogen similarly stimulate ectomycorrhizal development but are perceived differently by a fungal symbiont. *New Phytologist* 213: 1836-1849 – ISSN: 0028-646X, DOI: 10.1111/nph.14314 (IF: 7.433), cited in 14 documents (Scopus: last access 30/05/2022).
18. Sillo F., **Giordano L.**, Zampieri E., Lione G., De Cesare S., Gonthier P. (2017) HRM analysis provides insights on the reproduction mode and the population structure of *Gnomoniopsis castaneae* in Europe. *Plant Pathology* 66: 293-303 - ISSN: 0032-0862, DOI: 10.1111/ppa.12571 (IF: 2.303), cited in 12 documents (Scopus: last access 30/05/2022).
19. Lione G., **Giordano L.**, Ferracini C., Alma A., Gonthier P. (2016) Testing ecological interactions between *Gnomoniopsis castaneae* and *Dryocosmus kuriphilus*. *Acta Oecologica* 77: 10-17 - ISSN:

- 1146-609X, DOI: 10.1016/j.actao.2016.08.008 (IF: 1.652), cited in 20 documents (Scopus: last access 30/05/2022).
20. Sillo F., Savino E., **Giordano L.**, Girometta C., Astegiano D., Picco A.M., Gonthier P. (2016) Analysis of genotypic diversity provides a first glimpse on the patterns of spread of the wood decay fungus *Perenniporia fraxinea* in an urban park in Northern Italy. *Journal of Plant Pathology* 98(3): 617-624 - ISSN: 1125-4653, DOI: <http://dx.doi.org/10.4454/JPP.V98I3.005> (IF: 1.267), cited in 4 documents (Scopus: last access 30/05/2022).
 21. Sillo F., Zampieri E., **Giordano L.**, Lione G., Colpaert J., Balestrini R., Gonthier P. (2015) Identification of genes differentially expressed during the interaction between the plant symbiont *Suillus luteus* and two plant pathogenic allopatric *Heterobasidion* species. *Mycological Progress* 14(11): 1-13 - ISSN: 1617-416X, DOI: 10.1007/s11557-015-1130-3 (IF: 1.572), cited in 13 documents (Scopus: last access 30/05/2022).
 22. **Giordano L.**, Sillo F., Guglielmo F., Gonthier P. (2015) Comparing visual inspection of trees and molecular analysis of internal wood tissues for the diagnosis of wood decay fungi. *Forestry* 88: 465-470 - ISSN: 0015-752X, DOI: 10.1093/forestry/cpv015 (IF: 2.093), cited in 15 documents (Scopus: last access 30/05/2022).
 23. Gonthier P., Guglielmo F., Sillo F., **Giordano L.**, Garbelotto M. (2015) A molecular diagnostic assay for the detection and identification of wood decay fungi of conifers. *Forest Pathology* 45(2): 89-101 - ISSN: 1439-0329, DOI: 10.1111/efp.12132 (IF: 1.373), cited in 19 documents (Scopus: last access 30/05/2022).
 24. Lione G., **Giordano L.**, Sillo F., Gonthier P. (2015) Testing and modelling the effects of climate on the incidence of the emergent nut rot agent of chestnut *Gnomoniopsis castanea*. *Plant Pathology* 64(4): 852-863 - ISSN: 0032-0862, DOI: 10.1111/ppa.12319 (IF: 2.121), cited in 18 documents (Scopus: last access 30/05/2022).
 25. Gonthier P., Anselmi N., Capretti P., Bussotti F., Feducci M., **Giordano L.**, Honorati T., Lione G., Luchi N., Michelozzi M., Paparatti B., Sillo F., Vettraino A.M., Garbelotto M. (2014) An integrated approach to control the introduced forest pathogen *Heterobasidion irregulare* in Europe. *Forestry* 87(4): 471-481 - ISSN: 0015-752X, DOI: 10.1093/forestry/cpu015 (IF: 2.093), cited in 26 documents (Scopus: last access 30/05/2022).
 26. **Giordano L.**, Gonthier P., Lione G., Capretti P., Garbelotto M. (2014) The saprobic and fruiting abilities of the exotic forest pathogen *Heterobasidion irregulare* may explain its invasiveness. *Biological Invasions* 16(4): 803-814 - ISSN: 1387-3547, DOI: 10.1007/s10530-013-0538-4 (IF: 2.586), cited in 23 documents (Scopus: last access 30/05/2022).
 27. **Giordano L.**, Bocca F., Gonthier P. (2013) First report of the powdery mildew *Erysiphe flexuosa* on *Aesculus xcarnea* in Italy. *Journal of Plant Pathology* 95(2): 450 - ISSN: 1125-4653, DOI: <http://dx.doi.org/10.4454/JPP.V95I2.006> (IF: 0.768), cited in 0 documents (Scopus: last access 30/05/2022).
 28. **Giordano L.**, Garbelotto M., Nicolotti G., Gonthier P. (2013) Characterization of fungal communities associated with the bark beetle *Ips typographus* varies depending on detection method, location, and beetle population levels. *Mycological Progress* 12(1): 127-140 - ISSN: 1617-416X, DOI: 10.1007/s11557-012-0822-1 (IF: 1.543), cited in 31 documents (Scopus: last access 30/05/2022).
 29. Gonthier P., Lione G., **Giordano L.**, Garbelotto M. (2012) The American forest pathogen *Heterobasidion irregulare* colonizes unexpected habitats after its introduction in Italy. *Ecological Applications* 22(8): 2135-2143 - ISSN: 1051-0761, DOI: 10.1890/12-0420.1 (IF: 3.815), cited in 43 documents (Scopus: last access 30/05/2022).
 30. **Giordano L.**, Gonthier P. (2011) An outbreak of *Cyclaneusma minus* needle cast on Swiss mountain pine (*Pinus uncinata*) in Italy. *Journal of Plant Pathology* 93 (Supplement 4): S4.74 - ISSN: 1125-4653, DOI: <http://dx.doi.org/10.4454/jpp.v93i4.2382>: (IF: 0.912), cited in 6 documents (Scopus: last access 30/05/2022).
 31. **Giordano L.**, Nicolotti G., Zanuttini R., Cremonini C., Gonthier P. (2011) Effectiveness of two chemical preservatives against widespread moulds of high density fibreboards. *European Journal of Wood and Wood Products (Holz Als Roh-Und Werkstoff)* 69(4): 667-669 - ISSN: 0018-3768, DOI: 10.1007/s00107-010-0505-z (IF: 0.606), cited in 2 documents (Scopus: last access 30/05/2022).
 32. Gonthier P., **Giordano L.**, Nicolotti G. (2010) Further observations on sudden diebacks of Scots pine in the European Alps. *Forestry Chronicle* 86(1): 110-117 - ISSN: 0015-7546, DOI: 10.5558/tfc86110-1 (IF: 0.676), cited in 12 documents (Scopus: last access 30/05/2022).
 33. **Giordano L.**, Gonthier P., Varese G.C., Miserere L., Nicolotti G. (2009) Mycobiota inhabiting sapwood of healthy and declining Scots pine (*Pinus sylvestris* L.) trees in the Alps. *Fungal Diversity* 38: 69-83 - ISSN: 1560-2745, (IF: 3.803), cited in 85 documents (Scopus: last access 30/05/2022).

Articles in national journals with referee

34. Gonthier P., **Giordano L.**, Sillo F., Martinis R., Pasi V., Rettori A.A., Tantardini A. (2016) Sos cedri e frassini. *Acer* 32: 49-53 - ISSN: 1828-4434.
35. Gonthier P., Lione G., **Giordano L.** (2016) Indagini anemometriche per la progettazione, la gestione, la cura e l'analisi del verde arboreo. *Acer* 32: 33-39 - ISSN: 1828-4434.
36. Gonthier P., Anselmi N., Capretti P., Bussotti F., Feducci M., **Giordano L.**, Honorati T., Lione G., Luchi N., Michelozzi M., Paparatti B., Pollastrini M., Sillo F., Vettraino A.M., Garbelotto M. (2015) *Heterobasidion irregulare*. Azioni di contenimento alla diffusione del patogeno. *Sherwood. Foreste ed Alberi Oggi* 212: 33-36 - ISSN: 1590-7805.
37. **Giordano L.**, Costa G., Gonthier P. (2015) Fusariosi e marciume rosa delle palme. Sintomi di vittoria. *Acer* 31: 31-36 - ISSN: 1828-4434.
38. Gonthier P., Anselmi N., Capretti P., Bussotti F., Feducci M., **Giordano L.**, Honorati T., Lione G., Luchi N., Michelozzi M., Paparatti B., Pollastrini M., Sillo F., Vettraino A.M., Garbelotto M. (2015) *Heterobasidion irregulare*. Un patogeno forestale invasivo in Italia. *Sherwood. Foreste ed Alberi Oggi* 209: 15-17 - ISSN: 1590-7805.
39. Sidoti A., Lione G., Guglielmo F., **Giordano L.**, Pasotti L., Gonthier P. (2013) Indagini preliminari su struttura e distribuzione delle popolazioni di *Armillaria mellea* e *Heterobasidion annosum* associate a piante deperienti di *Betula aetnensis* in Sicilia. *Micologia Italiana* XLII: 68-78 - ISSN: 0390-0460.
40. Vacchiano G., Dobbertin M., Egli S., **Giordano L.**, Gonthier P., Mazzoglio P.J., Motta R., Nola P., Nicolotti G., Patetta A., Polomski J., Rigling A., Rigling D. (2011) Il deperimento delle pinete nelle Alpi occidentali. Gestione selvicolturale e lotta ai parassiti. *Sherwood. Foreste ed Alberi Oggi* 174: 5-12 - ISSN: 1590-7805.
41. **Giordano L.**, Vacchiano G., Dobbertin M., Egli S., Gonthier P., Mazzoglio P.J., Motta R., Nola P., Nicolotti G., Patetta A., Polomski J., Rigling A., Rigling D. (2010) Il deperimento delle pinete nelle Alpi occidentali. Sintomatologia ed eziologia. *Sherwood. Foreste ed Alberi Oggi* 164: 19-24 - ISSN: 1590-7805.
42. **Giordano L.**, Guglielmo F., Gonthier P., Varese G. C., Nicolotti G. (2008) Micoflora associata all'alburno di pino silvestre in foreste a diverso grado di deperimento delle Alpi Occidentali. *Micologia Italiana* 37(2): 3-11. ISSN: 0390-0460.
43. Nicolotti G., Gonthier P., **Giordano L.** (2006) Effetti collaterali di trattamenti endoterapici su legno di ipocastano. *Informatore Fitopatologico. La Difesa delle Piante* LVI(10): 34-39 - ISSN: 0020-0735.

Technical articles in national or regional journals with scientific committee

44. **Giordano L.** (2022) Giornata Internazionale della Salute delle Piante. *Arbor* 1: 31 - ISSN: 2384-9770.
45. **Giordano L.**, Zugno M. (2021) *Popillia japonica*. *Arbor* 1: 61-62 - ISSN: 2384-9770.
46. **Giordano L.**, Zugno M. (2020) *Anoplophora glabripennis*. *Arbor* 3: 39-40 - ISSN: 2384-9770.
47. **Giordano L.** (2020) *Phytophthora ramorum*. *Arbor* 1: 61-62 - ISSN: 2384-9770.
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 116. Gonthier P., Sillo F., Guglielmo F., **Giordano L.** (2014) Wood decay fungi associated with standing and failed conifer and broadleaf trees as detected through molecular assays: inferences on their host preference and their role on tree stability. In: **Giordano L.**, Ferrini F., Gonthier P. (eds.) Conference and Abstracts Book of the European Conference of Arboriculture – Planning the Green City: Relationships Between Trees and Infrastructures, Torino, Italy, May 26-28, 2014. DISAFA Editions, ISBN: 978-88-908636-1-5, pp. 60-61.
 117. Sidoti A., Lione G., Guglielmo F., **Giordano L.**, Granata G., Pasotti L., Gonthier P. (2012) Indagini preliminari sulla struttura delle popolazioni fungine associate al deperimento di *Betula aetnensis* in Sicilia. Riassunti del XIX Convegno Nazionale di Micologia, Bologna, UMI – Unione Micologica Italiana, Gubbio, Italy, October 11-12, 2012, pp. 26.
 118. Gonthier P., **Giordano L.**, Michelotti S., Garbelotto M. (2012) Diffusion de l'agent exotique de pourriture racinaire des pins *Heterobasidion irregulare* en Italie: facteurs concernés et interactions avec l'espèce native *H. annosum*. Journées Jean Chevaugnon, 9èmes Rencontres de Phytopathologie–Mycologie de la Société Française de Phytopathologie, Aussois, Savoie, Francia, January 16-20, 2012, pp. 42.
 119. Nicolotti G., Gonthier P., **Giordano L.** (2008) An experimental study on the survival and infectivity of some root and butt rot fungi in urban environment. Proceedings of the European Congress of Arboriculture, Arboriculture for the Third Millennium, Torino, Italy, June 16-18, 2008, pp. 4.
 120. Rigling A., Bigler C., Buergi M., Dobbertin M., Egli S., Gimmi U., **Giordano L.**, Gonthier P., Mazzoglio P., Motta R., Nicolotti G., Polomski J., Rigling D., Vacchiano G., Weber P., Wermelinger B., Wohlgemuth T., Zweifel R. (2008). The role of drought in Alpine pine dieback. Jornadas gestión forestal y cambio global, Granada, Spagna, April 18-19, 2008.
 121. Rigling A., Bigler C., Buergi M., Dobbertin M., Egli S., Gimmi U., **Giordano L.**, Gonthier P., Mazzoglio P., Motta R., Nicolotti G., Polomski J., Rigling D., Vacchiano G., Weber P., Wermelinger B., Wohlgemuth T., Zweifel R. (2007) Scots pine decline in inner-Alpine valleys – system analysis and management options. In: Lingua E., Marzano R. (eds.), Abstract Book of IUFRO Meeting Natural Hazards and Natural Disturbances in Mountain Forests, Trento, Italy, September 18-21, 2007, pp. 47-48.
 122. **Giordano L.**, Guglielmo F., Gonthier P., Varese G.C., Filipello V., Nicolotti G. (2006) Micoflora associata all'alburno di pino silvestre in foreste delle Alpi Occidentali. Riassunti del XVI Convegno Nazionale di Micologia, Firenze, Italy, December 4-6, 2006, pp. 41.

Abstracts in international journal with referee

123. Gonthier P., Luchi N., Petrucco Toffolo E., Balestrini R., Colazza S., Faccoli M., Garbelotto M., Guarino S., **Giordano L.**, Guglielmo F., Lione G., Loreto F., Mello A., Michelozzi M., Pepori A.L., Santini A., Sillo F., Vizzini A., Zampieri E. (2013) Investigating the effects of invasive fungal plant pathogens and phytophagous insects on native plants, pathogens, phytophagous insects and symbionts: toward a holistic understanding of biological invasions. 10th International Congress of Plant Pathology, Beijing, China, August 25-30, 2013. *Acta Phytopathologica Sinica (Chih Wu Ping Li Hsueh Pao)* 43 (Suppl.): 264-265. ISSN: 0412-0914.

Abstracts in national journals

124. Lione G., **Giordano L.**, Gonthier P. (2014) G-mod: un modello predittivo per stimare l'incidenza del marciume delle castagne causato da *Gnomoniopsis castanea*. Castanea 2014 – VI Congresso Nazionale sul Castagno “Innovazione e sostenibilità per uscire dalla crisi della castanicoltura”, Viterbo, Italy, September 22-25, 2014. Corylus & Co. – Rivista del Centro Studi e Ricerche sul Nocciolo e Castagno, anno V, 1: 48.

125. Lione G., Ferracini C., **Giordano L.**, Gonthier P., Alma A. (2014) Interazioni ecologiche tra il fungo agente di marciume della castagna *Gnomoniopsis castanea* e il cinipide galligeno *Dryocosmus kuriphilus*: prime osservazioni. Castanea 2014 – VI Congresso Nazionale sul Castagno “*Innovazione e sostenibilità per uscire dalla crisi della castanicoltura*”, Viterbo, Italy, September 22-25, 2014. Corylus & Co. – Rivista del Centro Studi e Ricerche sul Nocciolo e Castagno, anno V, 1: 67.
126. **Giordano L.**, Lione G., Pasero I., Gonthier P. (2014) Indagini preliminari sull'associazione tra il cancro causato da *Cryphonectria parasitica* e le lesioni da grandine su castagno. Castanea 2014 – VI Congresso Nazionale sul Castagno “*Innovazione e sostenibilità per uscire dalla crisi della castanicoltura*”, Viterbo, Italy, September 22-25, 2014. Corylus & Co. – Rivista del Centro Studi e Ricerche sul Nocciolo e Castagno, anno V, 1: 49.

In extenso articles in national journals

127. **Giordano L.**, Lione G., Sillo F., Gonthier P. (2020) Effetti della stagionalità sull'inoculo aereo di *Gnomoniopsis castaneae* in alcuni castagneti dell'Italia nord-occidentale. Atti del VII Convegno Nazionale sul Castagno, Pergine Valsugana (TN), Italy, June 11-14, 2019. A cura di Palmieri L., Beccaro G., Cristofori V., Maresi G., Salvadori C. *Hacta Italus Hortus* 25: 52-54.
128. Lione G., **Giordano L.**, Gonthier P. (2020) Indagini sulla capacità di *Gnomoniopsis castaneae* di trasmettersi da seme a sementale. Atti del VII Convegno Nazionale sul Castagno, Pergine Valsugana (TN), Italy, June 11-14, 2019. A cura di Palmieri L., Beccaro G., Cristofori V., Maresi G., Salvadori C. *Hacta Italus Hortus* 25: 189-191.

Books

129. **Giordano L.**, Gonthier P. (2014) Manuale di campo per il riconoscimento dei funghi lignivori. Edizioni DISAFA, 26 pp. ISBN: 978-88-908636-9-1.
130. Berretti R., Bottero A., Bruno E., Della Beffa G., Freppaz M., **Giordano L.**, Gonthier P., Gottero F., Mosca A., Motta R., Nicolotti G., Vacchiano G., Viglietti D., Wermelinger B. (2011) Foreste di protezione diretta. Disturbi naturali e stabilità nelle Alpi occidentali. Compagnia delle Foreste, Arezzo, 144 pp. ISBN: 978-88-901223-8-5.
131. Vacchiano G., Dobbertin M., Egli S., **Giordano L.**, Gonthier P., Mazzoglio P.J., Motta R., Nola P., Nicolotti G., Patetta A., Polomski J., Rigling A., Rigling D. (2008) Il deperimento del pino silvestre nelle Alpi occidentali: natura e indirizzi di gestione. Regione Piemonte, Regione Autonoma Valle d'Aosta. Compagnia delle Foreste, Arezzo, 128 pp.

Books (collaborations)

132. Gonthier P., Nicolotti G. (2013) Infectious Forest Diseases. CAB International, Wallingford, UK, 704 pp. ISBN:9781780640402.

Book chapter

133. **Giordano L.**, list Authors/Contributors. In: Orgiazzi A., Bardgett R.D., Barrios E., Behan-Pelletier V., Briones M.J.I., Chotte J-L., De Deyn G.B., Eggleton P., Fierer N., Fraser T., Hedlund K., Jeffery S., Johnson N.C., Jones A., Kandeler E., Kaneko N., Lavelle P., Lemanceau P., Miko L., Montanarella L., Moreira F.M.S., Ramirez K.S., Scheu S., Singh B.K., Six J., van der Putten W.H., Wall D.H. (eds.), 2016. Global Soil Biodiversity Atlas. European Commission, Publications Office of the European Union, Luxembourg. 176 pp. ISBN 978-92-79-48169-7 (printed version), ISBN 978-92-79-48168-0 (online version).

Proceedings of national and international conferences

134. **Giordano L.**, Spadaro D., Gonthier P. (eds.) (2015) XXI National Congress of Italian Society of Plant Pathology (SIPaV) - Difesa delle piante per l'alimentazione e l'energia. Book of abstracts. Torino, Italy, September 21-23, 2015. Edizioni ETS, Pisa, Italy, 74 pp. ISBN: 978-884674308-4.
135. **Giordano L.**, Ferrini F., Gonthier P. (eds.) (2014) Conference and Abstracts Book of the European Conference of Arboriculture – Planning the Green City: Relationships Between Trees and Infrastructures. Torino, Italy, May 26-28, 2014. DISAFA Editions, 100 pp. ISBN: 978-88-908636-1-5.

Translation in national journals with scientific committee

136. Slater D. (2017) La scienza e i suoi modelli: affrontando le teorie sugli alberi. Traduzione di **Giordano L.** *Arbor* 1: 6-12 - ISSN: 2384-9770.

137. Fay N. (2016) Un fine settimana di studio a Padova parlando del Cancro colorato del platano: una nuova collaborazione tra *Treework Environmental Practice* e *De Rebus Plantarum*, spin-off dell'Università di Padova. Traduzione di **Giordano L.** *Arbor* 3: 6-15 - ISSN: 2384-9770.

Other original publications

138. EPPO (2020) *Popillia japonica*. EPPO datasheets on pests recommended for regulation. Ciampitti M., **Giordano L.**, Zugno M. Available online: <https://gd.eppo.int/taxon/POPIJA/datasheet>.
139. EPPO (2020) *Anoplophora glabripennis*. EPPO datasheets on pests recommended for regulation. **Giordano L.**, Ciampitti M. Available online: <https://gd.eppo.int/taxon/ANOLGL/datasheet>.
140. EPPO (2019) PM 9/28 *Heterobasidion irregulare*: procedures for official control. OEPP/EPPO Bulletin, pp. 1-6; ISSN: 0250-8052, DOI: 10.1111/epp.12620 (*Expert Working Group - EWG*).
141. **Giordano L.**, Gonthier P. (2019) Eradication of invasive pathogens of forests: *Heterobasidion irregulare* as a case study. *EMPHASIS News* 06, February 2019, 10-11.
142. **Giordano L.** (2017) XXIII National Congress of Italian Phytopathological Society, October 2017. *International Newsletter in Plant Pathology* 47(11), November 2017.
143. **Giordano L.** (2008) Biotic and abiotic factors associated with forest declines in the Alps. Tesi di Dottorato, Università degli Studi di Torino, 131 pp.
144. **Giordano L.** (2004) Indagini sulle popolazioni di *Sphaeropsis sapinea*, in boschi di Pino nero in Piemonte, finalizzate alla lotta. Tesi di Laurea, Università degli Studi di Torino, 113 pp.

Multimedia contributions

145. **Giordano L.** (2020) Cancro resinoso del pino (pitch canker). App FitoDetective, Servizio Fitosanitario della Regione Lombardia.

5. Patent

Gonthier P., Sillo F., **Giordano L.**, Martinis R., Rettori A.A. "*Disposable for disinfection and biopsy for trees*" <https://www.knowledge-share.eu/en/patent/disinfection-and-biopsy-for-trees/>
Priority number: 102017000087211; priority date 28/07/2017; license: Italy.

6. Editorial activities

Member of editorial and scientific committee of journals

September 2, 2020 – Today: Senior Editor of *Journal of Plant Pathology* (Journal of Italian Society of Plant Pathology – SIPaV) (mycology).

January, 2012 – Today: Member of editorial and scientific committee of *Arbor* (ISSN: 2384-9770 - Journal of Italian Society of Arboriculture).

December 29, 2017 – Today: Review Editor for *Frontiers in Plant Science* (plant pathogen interactions).

January, 2019 – December 2020: Member of Editorial Board of *Castanea* published by DISAFA (University of Torino).

July 5, 2017 – August 31, 2020: Associate Editor of *Journal of Plant Pathology* (Journal of the Italian Society of Plant Pathology – SIPaV) (mycology).

Books

June 9, 2010 – February 16, 2013: Editorial assistanship in Gonthier P., Nicolotti G. (2013) *Infectious Forest Diseases*. CAB International, Wallingford, UK, 704 pp. ISBN:9781780640402.
<http://www.cabi.org/bookshop/book/9781780640402>

Web site

July 2020 – Today: Editor-in-Chief of web site of Plant Protection Service Lombardy Region.
www.fitosanitario.regione.lombardia.it

Referee for international journals

- *Journal of Plant Pathology*
- *Frontiers in Microbiology/Frontiers in Plant Science*
- *BMC Genomics*
- *Plant Disease*
- *PLoS One*
- *Fungal Biology*
- *Forests*
- *Forest Pathology*
- *European Journal of Plant Pathology*
- *Forest Ecology and Management*
- *iForest - Biogeosciences and Forestry*
- *Journal of Applied Phycology*
- *Microorganisms*
- *Journal of Plant Diseases and Protection*
- *Journal of Agricultural Science and Technology*
- *Biocontrol Science & Technology*
- *Dendrobiology*
- *Annals of Silvicultural Research*
- *Molecules*
- *African Journal of Microbiology Research*
- *Scientific Research and Essays*
- *Sherwood. Foreste ed Alberi Oggi*

7. Awards

- December 13, 2019 – March 31, 2021 – **Plant pathology specialist** (cultore della materia) (University of Genova).
- September 18, 2019 – **Poster Award** XXV National Congress of Italian Society of Plant Pathology – SIPaV: Pellicciaro M., Giordano L., Lione G., Sillo F., Gonthier P. (2019) *Pseudomonas* sp. as a new potential biocontrol agent against *Heterobasidion* species attacking conifers in Europe.
- June 6, 2019 – **Top Downloaded article 2017-2018** (WILEY, paper recognized as a top 20 most read papers in Forest Pathology): Sillo F., Giordano L., Gonthier P., 2018. Fast and specific detection of the invasive forest pathogen *Heterobasidion irregulare* through a Loop-mediated isothermal AMPlification (LAMP) assay. *Forest Pathology* 48: e12396.
- April 15, 2015 – March 31, 2016 – **Plant pathology specialist** (cultore della materia) (University of Genova).
- March 4, 2014 – March 31, 2015 – **Plant pathology specialist** (cultore della materia) (University of Genova).
- May 6, 2014 – **Editor's Choice article** (FORESTRY – Oxford University Press): Gonthier P., Anselmi N., Capretti P., Bussotti F., Feducci M., Giordano L., Honorati T., Lione G., Luchi N., Michelozzi M., Paparatti B., Sillo F., Vettraino A.M., Garbelotto M., 2014. An integrated approach to control the introduced forest pathogen *Heterobasidion irregulare* in Europe. *Forestry* 87, 471-481.
- June 13, 2014 – **“Young Researcher in training Prize”** (Italian Society of Plant Pathology – SIPaV)
- June 26, 2012 – **“Young Researcher in training Prize”** (Italian Society of Plant Pathology – SIPaV).
- March 22, 2011 – **Plant pathology specialist** (cultore della materia) (University of Torino).
- July 20, 2011 – **“Young Researcher in training Prize”** (Italian Society of Plant Pathology – SIPaV).
- September 21, 2004 – **“Menzione Optime” Prize** (Unione Industriale of Torino): among the best graduates of School Year 2003-2004.

8. Contributions and participations in national and international conferences

Invited speaker

- **Giordano L.** (2022) “2022: nuovi organismi nocivi – Sezione di Micologia” (*Stagonosporopsis andigena*, *Davidsoniella virescens*, *Gymnosporangium* spp.). Giornata di formazione “Sorveglianza fitosanitaria: incontro di aggiornamento e formazione” – Vertemate con Minoprio (CO), Italy (on-line),

May 5, 2022.

- **Giordano L.** (2022) Diagnosi e propensione al cedimento dell'albero. Cosmogarden, seminario tecnico "La diagnostica in ambiente urbano", Ordine dei Dottori Agronomi e dei Dottori Forestali di Brescia – Brescia, Italy, March 25, 2022.
- **Giordano L.** (2022) Biologia e riconoscimento dei principali agenti di carie del legno. Cosmogarden, seminario tecnico "La diagnostica in ambiente urbano", Ordine dei Dottori Agronomi e dei Dottori Forestali di Brescia – Brescia, Italy, March 25, 2022.
- **Giordano L.** (2022) Le principali malattie fungine di cereali ed erba medica. Corso "La certificazione e il controllo delle principali colture porta seme in Lombardia: mais, girasole, soia, cereali, barbabietola da zucchero, erba medica", Servizio Fitosanitario Regione Lombardia e CREA Difesa e Certificazione - Vertemate con Minoprio (CO), Italy (on-line), March 24, 2022.
- **Giordano L.** (2022) Le principali malattie fungine di mais, girasole e soia. Corso "La certificazione e il controllo delle principali colture porta seme in Lombardia: mais, girasole, soia, cereali, barbabietola da zucchero, erba medica", Servizio Fitosanitario Regione Lombardia e CREA Difesa e Certificazione - Vertemate con Minoprio (CO), Italy (on-line), March 17, 2022.
- **Giordano L.** (2022) Studio dei fenomeni di resistenza di isolati di *Trichoderma* spp. ai prodotti fitosanitari impiegati nella difesa da maculatura bruna e marciume nero del pero. Regione Lombardia, Italy, March 7, 2022.
- **Giordano L.** (2022) L'effetto del cambiamento climatico sugli organismi nocivi alle piante. "L'arboricoltura urbana a 360°". #conoscenza#esperienze#confronto#condivisione". Arbor webinar 2022, Società Italiana di Arboricoltura (SIA) - Webinar, February 17, 2022.
- AA.VV. (2021) Il Laboratorio v 2.0: le nostre sfide! Sorveglianza e lotta. DGA Agricoltura Regione Lombardia – Vertemate con Minoprio (CO), Italy (on-line), December 2, 2021.
- **Giordano L.** (2021) La maculatura bruna e il marciume nero delle pere. DGA Agricoltura Regione Lombardia – Vertemate con Minoprio (CO), Italy (on-line), November 30, 2021.
- **Giordano L.**, Gaffuri F. (2021) Climate change and invasive organisms: the role of Plant Health Service. High Summit COP26, International Conference on Mountains, Climate Change and Sustainable Development – Vertemate con Minoprio (CO), Italy, September 24-25, 2021.
- **Giordano L.** (2021) Le principali problematiche fitopatologiche in ambiente urbano. Ordine dei Dottori Agronomi e dei Dottori Forestali della Provincia di Bergamo, FODAF Lombardia, Italy - Webinar, July 29, 2021.
- **Giordano L.** (2021) Come riconoscere i principali funghi agenti di carie e marciume radicale. Ordine dei Dottori Agronomi e dei Dottori Forestali della Provincia di Bergamo, FODAF Lombardia, Italy - Webinar, July 15, 2021.
- **Giordano L.** (2021) I funghi agenti di carie e marciume radicale in ambiente urbano. Ciclo di incontri sulla patologia vegetale in ambito urbano. Ordine dei Dottori Agronomi e dei Dottori Forestali della Provincia di Bergamo, FODAF Lombardia, Italy - Webinar, July 8, 2021.
- **Giordano L.** (2021) La salute degli alberi in città: dall'estetica alla stabilità. "L'arboricoltura urbana a 360°". #conoscenza#esperienze#confronto#condivisione". Arbor webinar 2021, Società Italiana di Arboricoltura (SIA) - Webinar, April 7, 2021.
- **Giordano L.** (2021) "Dall'analisi visiva al campionamento: come comportarsi durante le indagini in campo". Incontro di formazione con gli Ispettori Fitosanitari del Servizio Fitosanitario della Regione Lombardia, Regione Lombardia - On-line, March 31, 2021.
- **Giordano L.** (2020) La cascola verde delle olive: inquadramento della problematica e sintesi delle attività svolte presso il Laboratorio del SFR Regione Lombardia. "Giornata di formazione sulla sorveglianza fitosanitaria in Lombardia", Regione Lombardia - On-line, December 10, 2020.
- **Giordano L.** (2020) Restituzione delle indagini di laboratorio svolte nel 2020 dal Servizio Fitosanitario Regionale a supporto dell'olivicoltura. "L'olivicoltura in Lombardia. Illustrazione dei risultati del primo anno di lavoro del progetto Olivicoltura2030", Regione Lombardia, Italy - On-line, December 3, 2020.
- **Giordano L.** (2020) La maculatura bruna e il marciume nero delle pere. Tavolo tecnico per esaminare la problematica della maculatura bruna della pera – Palazzo Lombardia, Servizio Fitosanitario Regionale, Italy, September 29, 2020.
- **Giordano L.** (2020) Stato dell'arte sulla cascola delle olive. Confronto tecnico sui problemi fitopatologici e le tecniche di difesa "Scenari Futuri e prospettive dell'olivicoltura di qualità" - On-line, May 29, 2020.
- **Giordano L.** (2019) Il fitorimedio: gli alberi possono fare qualcosa per la salute dei cittadini? Prospettive dal progetto DENDROCLEAN. Aperitivo scientifico rivolto ai cittadini: "La salute degli alberi in città e il ruolo dei cittadini in 6 domande e 6 risposte" – Torino, Italy, November 22, 2019.

- **Giordano L.** (2014) Ricerche e sperimentazioni su alcune problematiche fitopatologiche condotte nella città di Genova. Convegno: "*Gli alberi nella città mediterranea*" – Genova, Italy, March 19, 2014.
- Gonthier P., **Giordano L.**, Lione G. (2013) Nuove emergenze fitopatologiche del castagno: marciumi dei frutti e deperimento dei castagneti. Fiera Nazionale del Marrone - 15^a edizione: "*Castagno e Marketing: problematiche e strategie di valorizzazione*" – Cuneo, Italy, October 18, 2013.
- **Giordano L.** (2013) Nuove problematiche fitopatologiche dei castagneti. Workshop Nazionale sui risultati del controllo biologico del cinipide galligeno del castagno – Bibiana (TO), Italy, September 17-18, 2013.

Oral presentations

- **Giordano L.**, Cavagna B., Tonni G., Zani P., Anselmo G., Pini S., Minuto G. (2022) Il bilancio fitosanitario dell'olivo nelle regioni Lombardia e Liguria. Il bilancio fitosanitario 2020 e 2021 dell'olivo. Associazione Italiana per la Protezione delle Piante (AIPP) in collaborazione con Giornate Fitopatologiche, le Regioni e le Province Autonome – Vertemate con Minoprio (CO) (on-line), January 27, 2022.
- Chiarabaglio P.M., Giorcelli A., Lione G., Gonthier P., Massa N., Berta G., Lingua G., **Giordano L.** (2019) Pioppi e salici: quali prospettive nel campo del fitorimedio per il recupero di suoli contaminati da metalli pesanti? REMTECH EXPO. International Networking, Exhibition, Conferences and Training. Sessione REMTECH, Valorizzazione delle biomasse da fitorimedio – Ferrara, Italy, September 18-20, 2019.
- **Giordano L.**, Lione G., Sillo F., Gonthier P. (2019) Effetti della stagionalità sull'inoculo aereo di *Gnomoniopsis castaneae* in alcuni castagneti dell'Italia nord-occidentale. VII Convegno Nazionale sul Castagno – Pergine Valsugana, Italy, June 11-14, 2019.
- **Giordano L.**, Lione G., Sillo F., Gonthier P. (2018) Assessing the seasonal patterns of spore deposition of *Gnomoniopsis castaneae* in some chestnut orchards in northern Italy. XXIV National Congress of Italian Society of Plant Pathology (SIPaV) – Ancona, Italy, September 5-7, 2018.
- **Giordano L.**, Sillo F., Garbelotto M., Gonthier P. (2018) Assessing the association between fitness of *Heterobasidion irregulare* × *H. annosum* hybrids and the mitochondrial genome. LIFE+ ELMIAS Ash and Elm, and IUFRO WP 7.02.01 Root and Stem Rots Conference (LIFE-IUFRO). Uppsala and Visby, Sweden, August 26- September 1, 2018.
- **Giordano L.** (2017) I marciumi radicali e le carie da *Heterobasidion* spp. e relative strategie di lotta. Workshop tecnico-dimostrativo: "*Heterobasidion irregulare*: una grave minaccia per le pinete italiane ed europee. Come gestire l'emergenza". Parco della Gallinara, Anzio (Rome, Italy), November 28-29, 2017.
- **Giordano L.** (2017) Le problematiche fitosanitarie del Parco della Gallinara. Workshop tecnico-dimostrativo: "*Heterobasidion irregulare*: una grave minaccia per le pinete italiane ed europee. Come gestire l'emergenza". Parco della Gallinara, Anzio (Rome, Italy), November 28-29, 2017.
- **Giordano L.**, Zampieri E., Lione G., Vizzini A., Colpaert J.V., Balestrini R., Gonthier P. (2017) An ectomycorrhizal fungus may decrease the susceptibility of *Pinus sylvestris* to the native pathogen *Heterobasidion annosum* but not to the exotic *H. irregulare*. XXIII National Congress of Italian Society of Plant Pathology (SIPaV) – Piacenza, Italy, October 4-6, 2017.
- **Giordano L.**, Zampieri E., Lione G., Vizzini A., Sillo F., Balestrini R., Gonthier P. (2016) Insights on the interactions among non-native and native *Heterobasidion* species and the ectomycorrhizal symbiont *Tuber borchii* on *Pinus pinea*. XXII National Congress of Italian Society of Plant Pathology (SIPaV) – Roma, Italy, September 19-22, 2016.
- **Giordano L.**, Sillo F., Gonthier P. (2015) Detection, host preference and role on tree stability of wood decay fungi in urban environment. XXI National Congress of Italian Society of Plant Pathology (SIPaV) – Torino, Italy, September 21-23, 2015.
- **Giordano L.** (2014) Patogenicità e competitività tra *H. irregulare* e *H. annosum*. Workshop "*H. irregulare: una nuova minaccia per gli ecosistemi forestali italiani ed europei. Come gestire l'emergenza?*" – Torino, Italy, October 27, 2014.
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Contributions

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- Lione G., **Giordano L.**, Gonthier P. (2015) Testing the spatial distribution of plant diseases through permutation and randomization methods. XXI National Congress of Italian Society of Plant Pathology (SIPaV) – Torino, Italy, September 21-23, 2015 (Poster).
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- Lione G., Ferracini C., **Giordano L.**, Gonthier P., Alma A. (2014) Interazioni ecologiche tra il fungo agente di marciume della castagna *Gnomoniopsis castanea* e il cinipide galligeno *Dryocosmus kuriphilus*: prime osservazioni. Castanea 2014 – VI Congresso Nazionale sul Castagno “Innovazione e sostenibilità per uscire dalla crisi della castanicoltura” – Viterbo, Italy, September 22-25, 2014 (Oral presentation of Lione G.).
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- Lione G., Ferracini C., **Giordano L.**, Gonthier P. (2014) Insights on the interactions between the nut rot agent *Gnomoniopsis castanea* and the Chinese gall wasp *Dryocosmus kuriphilus* on chestnut. 11th Conference of the European Foundation for Plant Pathology – Krakow, Poland, September 8-13, 2014 (Poster).
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- Sillo F., **Giordano L.**, Guglielmo F., Garbelotto M., Gonthier P. (2014) A rapid molecular diagnostic assay for the detection and identification of wood decay fungi of conifers. European Conference of Arboriculture “*Planning the Green City: Relationships Between Trees and Infrastructures*” – Torino, Italy, May 26-28, 2014 (Oral presentation of Sillo F.).
- Gonthier P., Sillo F., Guglielmo F., **Giordano L.** (2014) Wood decay fungi associated with standing and failed conifer and broadleaf trees as detected through molecular assays: inferences on their host preference and their role on tree stability. European Conference of Arboriculture “*Planning the Green City: Relationships Between Trees and Infrastructures*” – Torino, Italy, May 26-28, 2014 (Oral presentation of Gonthier P.).
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- **Giordano L.**, Garbelotto M., Michelotti S., Lione G., Capretti P., Gonthier P. (2012) Comparative pine log inoculation experiments suggest that the saprobic ability is a key factor driving the invasion of *Heterobasidion irregulare* in Italy. XVIII National Congress of Italian Society of Plant Pathology (SIPaV) – Sassari, Italy, September 24-26, 2012 (Poster).
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- Gonthier P., **Giordano L.**, Michelotti S., Garbelotto M. (2012) Diffusion de l'agent exotique de pourriture racinaire des pins *Heterobasidion irregulare* en Italie: facteurs concernés et interactions avec l'espèce native *H. annosum*. Journées Jean Chevaugéon, 9èmes Rencontres de Phytopathologie–Mycologie de la Société Française de Phytopathologie – Aussois, Savoie, France, January 16-20, 2012 (Oral presentation of Gonthier P.).
- Gonthier P., Anselmi N., Capretti P., Bussotti F., Feducci M., Garbelotto M., **Giordano L.**, Guglielmo F., Honorati T., Lione G., Luchi N., Mancini V., Michelotti S., Michelozzi M., Nicolotti G., Paparatti B., Pollastrini M., Vettraino A.M. (2011) A comprehensive approach to study the impact and the epidemiology of the invasive forest pathogen *Heterobasidion irregulare* in Italy. XVII National Congress of Italian Society of Plant Pathology (SIPaV) – Bologna, Italy, September 12-14, 2011 (Poster).
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- **Giordano L.**, Nicolotti G., Gonthier P. (2010) Presence and abundance of root rot, butt rot and stem rot fungi in protection forests of the western Alps. XVI National Congress of Italian Society of Plant Pathology (SIPaV) – Firenze, Italy, September 14-17 2010 (Poster).

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- Rigling A., Bigler C., Buergi M., Dobbertin M., Egli S., Gimmi U., **Giordano L.**, Gonthier P., Mazzoglio P., Motta R., Nicolotti G., Polomski J., Rigling D., Vacchiano G., Weber P., Wermelinger B., Wohlgemuth T., Zweifel R. (2007) Scots pine decline in inner-Alpine valleys – system analysis and management options. IUFRO Meeting Natural Hazards and Natural Disturbances in Mountain Forests – Trento, Italy, September 18-21, 2007 (Oral presentation of Rigling A.).

Member of organizing committee

- Scientific aperitif for citizens: "La salute degli alberi in città e il ruolo dei cittadini in 6 domande e 6 risposte". Torino, Italy, November 22, 2019.
- XXI National Congress of Italian Society of Plant Pathology (SIPaV). Torino, Italy, September 21-23, 2015.

Chair/moderator

- Workshop: "*Heterobasidion irregulare*: una grave minaccia per le pinete italiane ed europee. Come gestire l'emergenza". Parco della Gallinara, Anzio, Italy, November 28-29, 2017.
- XX National Congress of Italian Society of Plant Pathology (SIPaV). Pisa, Italy, September 22-24, 2014. Coordinator and moderator of the session "*L'Opificio delle Idee*".
- Workshop: "*Heterobasidion irregulare*: una nuova minaccia per gli ecosistemi forestali italiani ed europei. Come gestire l'emergenza?". Torino, Italy, October 27, 2014. Coordinator and moderator of the workshop.

9. Participations in research projects

Principal Investigator/Fund Responsible

- **Principal Investigator:** "DENDROCLEAN: trees to clean up contaminated soils" - University of Torino and Compagnia di San Paolo (from 01-05-2017 to 14-01-2020).
- **Principal Investigator:** "Identification, characterization and nursery multiplication of Friulian chestnut cultivars and investigation of *Cryphonectria parasitica* populations and frequency of the hypovirulence" – University of Torino and Agenzia Regionale per lo Sviluppo Rurale – ERSA (from 08-06-2017 to 27-12-2018).
- **Fund Responsible:** "Investigations on a new phytopathological problem of poplar". University of Torino (from 01-01-2017 to 31-12-2018).
- **Fund Responsible:** "Development and application of molecular and traditional techniques for the characterization of populations of the causal agent of chestnut blight". University of Torino (from 01-01-2018 to 31-12-2018).
- **Fund Responsible:** "Development of innovative diagnostic tools and control strategies for plant pathogens". University of Torino (from 01-01-2016 to 31-12-2017).
- **Principal Investigator:** "Insights on biology and epidemiology of pathogens of agroforestry crops". University of Torino (from 01-01-2016 to 31-12-2017).
- **Principal Investigator:** "*Heterobasidion irregulare*: a new threat to Italian and European forest ecosystems. How to manage the emergency?". Fondazione Fondo Ricerca e Talenti (from 19-02-2014 to 27-10-2014).

Member of research group

- Fondazione Cassa di Risparmio di Torino "Application of innovative biotechnologies for the genetic improvement of chestnut for pathogens resistance" (from 08-02-2019 to 14-01-2020).
- Sourcon Padena GmbH (Germany) "Evaluation of the efficacy, active metabolites and ecological impact of treatments with *Pseudomonas* sp. DSMZ 13134 against *Heterobasidion* spp." (from 01-01-2018 to 14-01-2020).

- Federlegno Arredo Eventi S.p.A. "Study of the effectiveness of new molecules against widespread moulds for food-safe hardwood and softwood packaging (from 04-10-2017 to 14-01-2020).
- Horizon 2020 Research and Innovation Program, EMPHASIS Project "Effective Management of Pests and Harmful Alien Species – Integrated Solutions" (the Project was funded by the European Commission) (from 01-03-2015 to 01-04-2019).
- Regional Project "Experiments on the sanitation of chestnut trees heavily affected by chestnut blight and chestnut gall wasp and on agronomic methods to contain *Gnomoniopsis castanea*" (the Project was supported by Piedmont Region with MiPAF funds) (from 12-11-2013 to 12-01-2014).
- Futuro in Ricerca Project (FIRB 2012) "Assessing the impacts of invasive fungal pathogens and phytophagous insects on native plants, pathogens, phytophagous insects and symbionts" (the Project was funded by the Italian Ministry of Education, University, and Research) (from 21-03-2013 to 21-09-2016).
- Chestnut Regional Centre of Piedmont "Monitoring and evaluation of the most important pathogens of chestnut" (from 27-10-2011 to 26-10-2014).
- Dipartimento Regionale Azienda Foreste Demaniali della Regione Sicilia "*Betula aetnensis* decline in Sicily" (from 01-10-2011 to 28-09-2012).
- A.S.Ter., Azienda Servizi Territoriali Genova SpA – COREP "Study on the most important phytopathological problems in the city of Genoa" (from 17-11-2010 to 30-09-2012).
- Project of National Interest (PRIN program) "Ecological impact, epidemiology and control measures of the North American exotic species of *Heterobasidion*, recently introduced in Italian forest ecosystems" (the Project was supported by the Italian Ministry of Education, University, and Research) (from 22-03-2010 to 22-09-2012).
- Novolegno S.p.A. – Evaluation of the effectiveness of some preservatives to contain the development of mold on fruit and vegetable packaging (from 01-01-2009 to 30-06-2009).
- Interreg ALCOTRA – Objectif Coopération Territoriale Européenne "Forêts de protection: techniques de gestion et innovation dans les Alpes occidentales" (from 01-01-2009 to 11-11-2011).
- University of Torino "Epidemiology of an exotic forest pathogen in Italian forest ecosystems: comparative study of some ecological characteristics of the North American group P of *Heterobasidion annosum*, recently introduced in Europe, and of the native European species *H. annosum sensu stricto*" (from 01-01-2007 to 31-12-2008).
- Regional Project "Studies on fungal communities associated with the bark beetle *Ips typographus*" (the Project was supported by Piedmont Region) (from 01-07-2005 al 31-12-2008).
- INTERREG Project (Italy-Switzerland) "Scots pine stands in the Alps, a changing landscape feature" (from 21-2-2005 to 20-02-2007 and from 21-2-2007 to 21-2-2009).

10. Teaching experiences

Academic teaching experiences (University of Torino)

- **Academic Year 2018-2019 – "Disease Management in Cropping Systems"** (3 CFU, 30 hours, in English) – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). Second Cycle Degree Course in Agricultural Science.
- **Academic Year 2017-2018 – "Disease Management in Cropping Systems"** (1 CFU, 10 hours, in English) – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). Second Cycle Degree Course in Agricultural Science.
- **Academic Year 2017-2018 – "Plant pathology"** (3 CFU, 57 hours) – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Agricultural Science and Technologies.
- **Academic Year 2016-2017 – "Plant pathology"** (3 CFU, 57 hours) – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Agricultural Science and Technologies.
- **Academic Year 2015-2016 – "Plant pathology"** (2 CFU, 59 hours) – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Agricultural Science and Technologies.
- **Academic Year 2014-2015 – 18 hours** lectures, laboratory and field trainings on Forest Pathology – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Planning of Green Areas and Landscape.

- **Academic Year 2013-2014 – 37 hours** lectures, laboratory and field trainings on Forest Pathology – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Planning of Green Areas and Landscape.
- **Academic Year 2012-2013 – 23 hours** lectures, laboratory and field trainings on Forest Pathology – Department of Agricultural, Forest and Food Sciences (DISAFA, University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Planning of Green Areas and Landscape.
- **Academic Year 2011-2012 – 18 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Forest and Environmental Sciences.
- **Academic Year 2010-2011 – 32 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Forest and Environmental Sciences.
- **Academic Year 2009-2010 – 46 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences, First Cycle Degree Course Land Defence and Forest Hydraulic Maintenance of the Territory, Second Cycle Degree Course in Land Defence and Forest Maintenance of the Territory and Second Cycle Degree Course in Forest and Environmental Sciences.
- **Academic Year 2008-2009 – 27 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences, First Cycle Degree Course Land Defence and Forest Hydraulic Maintenance of the Territory, Second Cycle Degree Course in Land Defence and Forest Maintenance of the Territory and Second Cycle Degree Course in Forest and Environmental Sciences.
- **Academic Year 2007-2008 – 48 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences, First Cycle Degree Course Land Defence and Forest Hydraulic Maintenance of the Territory, Second Cycle Degree Course in Land Defence and Forest Maintenance of the Territory and Second Cycle Degree Course in Forest and Environmental Sciences.
- **Academic Year 2006-2007 – 30 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Land Defence and Forest Maintenance of the Territory.
- **Academic Year 2005-2006 – 30 hours** lectures, laboratory and field trainings on Forest Pathology – Faculty of Agriculture (University of Torino, Italy). First Cycle Degree Course in Forest and Environmental Sciences and Second Cycle Degree Course in Land Defence and Forest Maintenance of the Territory.

Other academic teaching experiences

- **Academic Year 2017-2018** – University of Milano (Italy) “Plant disease and pest management” course, MSc Degree Course in Agricultural Sciences. “Heterobasidion root and butt rots and the introduction in Italy of the North American species *H. irregulare*”. May 11, 2018 (4 hours, in English).
- **Academic Year 2016-2017** – Mendel University in Brno (Czech Republic), Department of Forest Protection and Wildlife Management, Faculty of Forestry and Wood Technology, Study Program European Forestry. “Progress on control of Heterobasidion root rot”. May 18, 2017 (2 hours, in English).
- **Academic Year 2016-2017** – University of Milano (Italy) “Plant disease and pest management” course, MSc Degree Course in Agricultural Sciences. “Heterobasidion root and butt rots and the introduction in Italy of the North American species *H. irregulare*”. April 28, 2017 (4 hours, in English).

Extra-academic teaching experiences

- **July 2-6, 2018** – Tutor of Summer School 2018 “Emerging pests and diseases in horticultural crops: innovative solutions for diagnosis and management”. “Effective Management of Pests and Harmful Alien Species – Integrated Solutions - EMPHASIS” Project.

- **November 17, 2017** – Fourth Webinar in plant health “Overview on Heterobasidion root and butt rots of conifers”. “Effective Management of Pests and Harmful Alien Species – Integrated Solutions - EMPHASIS” Project (in English).
- **March 17, 2017** – SOCIO-TECHNOLOGICAL LEARNING LAB (SLL) “New technologies for forestry; Heterobasidion root rot, ash dieback, control of *Heracleum* and forest weeds”. “Effective Management of Pests and Harmful Alien Species – Integrated Solutions - EMPHASIS” Project. Mendel University in Brno, Czech Republic (in English).
- **December 1-3, 2008** – Participation as a teacher to course “Which green for the future of our city. Planning options in terms of climatic changes and introduction of new parasites”. Biotechnology Foundation of Torino, Italy.
- **September 24-25, 2007** – Teacher assistant to course “Diagnosis and Management of urban tree pathologies and new technologies for the assessment of their stability”. Biotechnology Foundation of Torino, Italy.
- **February 6, 2006** – Teacher assistant to course “Diagnosis and Management of urban tree pathologies and new technologies for the assessment of their stability”. Biotechnology Foundation of Torino, Italy.

11. Personal skills and competences

Technical skills and competences (in field)

- In field phytopathological monitoring
- In field identification and diagnosis (signs and symptoms) of fungal plant pathogens
- Crown transparency estimation (indicator of stress/suffering of forest trees according with Dobbertin *et al.*, 2004)
- Collection of samples for laboratory analyses
- Estimation of fungal inoculum through spore traps
- Setting-up of experiments in field and under greenhouse conditions
- Application of control strategies to contain the most important fungal pathogens of forest and ornamental trees

Technical skills and competences (in laboratory)

- Identification and diagnosis of fungal plant pathogens through traditional techniques (based on macro- and micro-morphological characteristics by using fungal taxonomic keys) and molecular techniques (conventional PCR, multiplex-PCR, LAMP and real-time PCR)
- *In vitro* isolations of fungal plant pathogens from different plant matrices (leaves, wood, fruits, roots and seeds), as well as from soil, insects and fungal fruiting bodies (e.g., wood decay fungi)
- Setting-up of *in vitro* experiments (e.g., pathogenicity/virulence studies; assessment of the growth/germination rate of fungal pathogens in different conditions; dual cultures studies; vegetative compatibility studies)
- Organization and management of a fungal culture collection (Mycotheca)
- Fungal population studies with Random Amplified Microsatellites (RAMs)
- Identification of hypovirulent (CHV1) strains of *Cryphonectria parasitica* through molecular techniques

Computer skills and competences

- Knowledge of MS Office (Word, Excel, Power Point)
- Knowledge of BioEdit
- Editor of web site (Plant Protection Service of Lombardy Region)
<https://www.fitosanitario.regione.lombardia.it/wps/portal/site/sfr>

Other skills and competences

- Project management and planning
- Writing and refereeing scientific papers for publication
- Writing of periodic reports and project deliverables
- Organization and moderation of workshops and conferences
- Proficiency in English and French

12. EN ISO/IEC 17025 Accreditation and participation at PT (Proficiency Test) and TPS (Test Performance Study)

EN ISO/IEC 17025 Accreditation

- From September 2021, **UNI CEI EN ISO/IEC 17025:2018 accreditation: *Ceratocystis platani*** real-time PCR (EPPO PM 7/14 rev 2 2014, Appendix 3; Real-time).

Participation at PT (Proficiency Test) and TPS (Test Performance Study)

- ***Phyllosticta citricarpa* Test Performance Study (TPS)** - Euphresco project CBS-DETECT (May-June 2022, waiting for the results).
- ***Phytophthora ramorum* Proficiency Test (PT)** - comparative test among laboratories. POSITIVE (conventional PCR - 100% results) (May 2022).
- ***Ceratocystis platani* Proficiency Test (PT)** - CREA Council for Agricultural Research and Economics, CREA-DC_PT2021_06_CP. POSITIVE (real-time PCR – 100% results) (February 2022).
- ***Ceratocystis platani* Proficiency Test (PT)** - comparative test among laboratories. POSITIVE (real-time PCR - 100% results) (May 2021).

Vertemate con Minoprio, 9th June 2022

Dr. Luana Giordano

