

Giuseppe LIMA

Full professor of Plant Pathology
Università degli Studi del Molise – Campobasso IT
H Index: 22

Main Publications 1988-2021

- Kheireddine, A., Palmieri, D., Vitullo, D., Barberio, A., Zouaoui, M., De Curtis, F., Sadfi-Zouaoui, N., and **LIMA**, G. (2021). Characterization of new yeast isolates collected from different fruits in Tunisia and biocontrol activity against *Penicillium expansum* on apples. *J. Plant Pathol.* doi: 10.1007/s42161-021-00921-2
- Castoria R., Miccoli C., Barone G., Palmieri D., De Curtis F., **LIMA** G., Heitman J., Ianiri G. (2021). Molecular Tools for the Yeast *Papiliotrema terrestris* LS28 and Identification of Yap1 as a Transcription Factor Involved in Biocontrol Activity. *Applied & Environmental Microbiology* 87(7). doi: 10.1128/AEM.02910-20
- Palmieri, D., Vitale, S., **LIMA**, G., Turrà, D. (2020). A bacterial endophyte exploits chemotropism of a fungal pathogen for plant colonization. *Nature Communications* 11: 5264. <https://doi.org/10.1038/s41467-020-18994-5>.
- Miccoli C., D. Palmieri, F. De Curtis, G. **LIMA**, J. Heitman, R. Castoria, G. Ianiri (2020). The necessity for molecular classification of basidiomycetous biocontrol yeasts. *BioControl*. Published online 23 March 2020 (<https://doi.org/10.1007/s10526-020-10008-z>).
- Zajc J., A. Černoša, A. Di Francesco, R. Castoria, F. De Curtis, G. **LIMA**, H. Badri, H. Jijakli, A. Ippolito, C. Gostin, P. Zalar, N.G. Cimerman, W.J. Janisiewicz (2020). Characterization of *Aureobasidium pullulans* Isolates Selected as Biocontrol Agents Against Fruit Decay Pathogens. *Fungal Genomics & Biology* Vol. 10(1) n. 163 (2165-8056, Electronic - 2165-8056 Linking).
- Fierro, M., Palmieri, D., De Curtis, F., Vitullo D., Rubio J., Gil J., **LIMA**, G., Millan, T. (2019). Genetic and agronomic characterization of chickpea landraces for resistance to *Fusarium oxysporum* f.sp. *ciceris*. *Phytopathologia Mediterranea* 58(2):239-248, doi.org/10.14601/Phytopathol_Mediterr-10612
- Frisullo S., G. **LIMA**, G. Magnano di San Lio, I. Camele, L. Melissano, I. Puglisi, A. Pane, G.E. Agosteo, L. Prudente, S.O. Cacciola (2018). *Phytophthora cinnamomi* Involved in the Decline of Holm Oak (*Quercus ilex*) Stands in Southern Italy, *Forest Science* 64(3): 290–298, doi.org/10.1093/forsci/fxx010.
- Miccoli C., Palmieri D., De Curtis F., **LIMA** G., Ianiri G., Castoria R. (2018). Complete Genome Sequence of the Biocontrol Agent Yeast *Rhodotorula kratochvilovae* Strain LS11. *Genome Announcements* 6(10): 1-2, doi.org/10.1128/genomeA.00120-18
- Palmieri D., Vitullo D., De Curtis F. and **LIMA** G (2017). A microbial consortium in the rhizosphere as a new biocontrol approach against Fusarium decline of chickpea. *Plant and Soil* 412(1-2): 425-439, doi.org/10.1007/s11104-016-3080-1
- Cocozza C., Trupiano D., Lustrato G., Alfano G., Vitullo D., Falasca A., Lomaglio T., De Felice V, **LIMA** G., Ranalli G., Scippa S., Tognetti R. (2015). Challenging synergistic activity of poplar-bacteria association for the Cd phytostabilization. *Environmental Science and Pollution Research International*, vol. 22, p. 19546-19561, ISSN: 0944-1344, doi: 10.1007/s11356-015-5097-z
- Cocozza C, Vitullo D, **LIMA** G, Maiuro L, Marchetti M, Tognetti R (2014). Enhancing phytoextraction of Cd by combining poplar (clone "I-214") with *Pseudomonas fluorescens* and microbial consortia. ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH

- INTERNATIONAL, vol.21, p.1796-1808, ISSN: 0944-1344, doi:10.1007/s11356-013-2073-3
- De Curtis F., Palmieri D., Vitullo D., **LIMA G** (2014). First Report of *Fusarium oxysporum* f.sp *pisi* as Causal Agent of Root and Crown Rot on Chickpea (*Cicer arietinum*) in Southern Italy. *PLANT DISEASE*, vol.98, p.995, ISSN:0191-2917, doi:10.1094/PDIS-09-13-0941-PDN
- Vitullo D., De Curtis F., Palmieri D., **LIMA G** (2014). Milkwort (*Polygala myrtifolia* L.) decline is caused by *Fusarium oxysporum* and *F. solani* in Southern Italy. *EUROPEAN JOURNAL OF PLANT PATHOLOGY*, vol. 140(4):, p. 883-886, ISSN: 0929-1873, doi: 10.1007/s10658-014-0514-6
- LIMA G** (2014). Viaggio nel mondo dei funghi attraverso la storia. *PAGINE DI MICOLOGIA*, vol. 38, p. 1-12, ISSN: 1122-8911
- Romano A, Vitullo D, Senatore M, **LIMA G**, Lanzotti V (2013). Antifungal Cyclic Lipopeptides from *Bacillus amyloliquefaciens* Strain BO5A. *JOURNAL OF NATURAL PRODUCTS*, vol. 76, p. 2019-2025, ISSN: 0163-3864, doi: 10.1021/np400119n
- Vitullo D, Altieri R, Esposito A, Nigro F, Ferrara M, Alfano M, Ranalli G, De Cicco V, **LIMA G** (2013). Suppressive biomasses and antagonist bacteria for an eco-compatible control of *Verticillium dahliae* on nursery-grown olive plants. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY*, vol. 10, p. 209-220, ISSN: 1735-1472, doi: 10.1007/s13762-012-0145-4
- De Curtis F, De Cicco V, **LIMA G** (2012). Efficacy of biocontrol yeasts combined with calcium silicate or sulphur for controlling durum wheat powdery mildew and increasing grain yield components. *FIELD CROPS RESEARCH*, vol. 134, p. 36-46, ISSN: 0378-4290, doi: 10.1016/j.fcr.2012.04.014
- Vitullo D, Di Pietro A, Romano A, Lanzotti V, **LIMA G** (2012). Role of new bacterial surfactins in the antifungal interaction between *Bacillus amyloliquefaciens* and *Fusarium oxysporum*. *PLANT PATHOLOGY*, vol. 61, p. 689-699, ISSN: 0032-0862, doi: 10.1111/j.1365-3059.2011.02561.x
- Romano A, Vitullo D, Di Pietro A, **LIMA G**, Lanzotti V (2011). Antifungal Lipopeptides from *Bacillus amyloliquefaciens* Strain BO7. *JOURNAL OF NATURAL PRODUCTS*, vol. 74, p. 145-151, ISSN: 0163-3864, doi: 10.1021/np100408y
- Alfano G, Lustrato G, **LIMA G**, Vitullo D, Ranalli G (2011). Characterization of composted olive mill wastes to predict potential plant disease suppressiveness. *BIOLOGICAL CONTROL*, vol. 58, p. 199-207, ISSN: 1049-9644, doi: 10.1016/j.biocontrol.2011.05.001
- LIMA G**, Castoria R, De Curtis F, Raiola A, Ritieni A, De Cicco V (2011). Integrated control of blue mould using new fungicides and biocontrol yeasts lowers levels of fungicide residues and patulin contamination in apples. *POSTHARVEST BIOLOGY AND TECHNOLOGY*, vol. 60, p. 164-172, ISSN: 0925-5214, doi: 10.1016/j.postharvbio.2010.12.010
- De Curtis F, **LIMA G**, Vitullo D, De Cicco V (2010). Biocontrol of *Rhizoctonia solani* and *Sclerotium rolfsii* on tomato by delivering antagonistic bacteria through a drip irrigation system. *CROP PROTECTION*, vol. 29, p. 663-670, ISSN: 0261-2194, doi: 10.1016/j.cropro.2010.01.012
- LIMA G** (2009). Le micorrize: aspetti eco-fisiologici e fitopatologici. *PAGINE DI MICOLOGIA*, vol. 31, p. 9-13, ISSN: 1122-8911
- Alfano G, Lustrato G, **LIMA G**, Vitullo D, Delfine S, Tognetti R, Ranalli G (2009). Physico-chemical, microbiological, agronomical, and phytopathological aspects in the recycling of olive waste composted residues. *DYNAMIC SOIL, DYNAMIC PLANT*, vol. 3 (Special Issue 1), p. 64-72, ISSN: 1749-6500
- Alfano G, Lustrato G, **LIMA G**, Ranalli G (2009). Present and future perspectives of olive residues composting in the Mediterranean basin. *DYNAMIC SOIL, DYNAMIC PLANT*, vol. 3 (Special Issue 1), p. 39-56, ISSN: 1749-6500

- LIMA G**, De Curtis F, De Cicco V (2008). Interaction of microbial biocontrol agents and fungicides in the control of postharvest diseases. STEWART POSTHARVEST REVIEW, vol. 1, p. 1-7, ISSN: 1745-9656
- de Felice DV, Solfrizzo M, De Curtis F, **LIMA G**, Visconti A, Castoria R (2008). Strains of *Aureobasidium pullulans* Can Lower Ochratoxin A Contamination in Wine Grapes. PHYTOPATHOLOGY, vol. 98, p. 1261-1270, ISSN: 0031-949X, doi: 10.1094/PHYTO-98-12-1261
- LIMA G**, Piedimonte D, De Curtis F, Abobaker Elgelane A, Nigro F, D'onghia A.M, Alfano G, Ranalli G (2008). Suppressive effect of cured compost from olive oil by-products towards *Verticillium dahliae* and other fungal pathogens. ACTA HORTICULTURAE, vol. 791, p. 585-591, ISSN: 0567-7572
- LIMA G**, F. De Curtis, A.M. Donghia, F. Nigro (2007). Comparison between real time PCR and semi-selective medium in monitoring *Verticillium dahliae* microsclerotia in the olive rhizosphere and suppression of the pathogen by compost. IOBC/WPRS BULLETIN, vol. 30, p. 221-224, ISSN: 1027-3115
- De Curtis F, A.M. Spina, D. Piedimonte, **LIMA G** (2007). Gravi alterazioni al colletto di giovani piante di pomodoro: indagini eziologiche. INFORMATORE FITOPATOLOGICO, vol. 6, p. 41-43, ISSN: 0020-0735
- Corvi F, **LIMA G** (2007). Strategie per contrastare la muffa grigia nel Centro Italia. TERRA E VITA, vol. 26, p. 63-65, ISSN: 0040-3776
- Arras G, D'hallewin G, Molinu M, Dore A, Venditti T, Fois M, **LIMA G**, Agabbio M (2006). Induction of phytoalexins biosynthesis in orange fruit by the biocontrol yeast *Rhodotorula glutinis*. COMMUNICATIONS IN AGRICULTURAL AND APPLIED BIOLOGICAL SCIENCES, vol. 71, p. 915-921, ISSN: 1379-1176
- LIMA G**, De Curtis F, Piedimonte D, Spina AM, De Cicco V (2006). Integration of biocontrol yeast and thiabendazole protects stored apples from fungicide sensitive and resistant isolates of *Botrytis cinerea*. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 40, p. 301-307, ISSN: 0925-5214, doi: 10.1016/j.postharvbio.2006.01.017
- LIMA G**, De Curtis F (2006). Nuova strategia antioidica per una viticoltura di qualità: "Prove di controllo dell'oidio con Prosper in Molise". TERRA E VITA, vol. 6 - suppl., p. 30-32, ISSN: 0040-3776
- LIMA G**, Castoria R, Spina A.M, Caputo L, De Curtis F (2005). Improvement of biocontrol yeast activity against postharvest pathogens: recent experiences. ACTA HORTICULTURAE, vol. 682, p. 2035-2040, ISSN: 0567-7572
- LIMA G**, Spina AM, Castoria R, De Curtis F, De Cicco V (2005). Integration of Biocontrol agents and food-grade additives for enhancing protection of stored apples from *Penicillium expansum*. JOURNAL OF FOOD PROTECTION, vol. 68, p. 2100-2106, ISSN: 0362-028X
- Castoria R, **LIMA G**, Ferracane R, Ritieni A (2005). Occurrence of mycotoxin in Farro samples from southern Italy. JOURNAL OF FOOD PROTECTION, vol. 68, p. 416-420, ISSN: 0362-028X
- Ranalli G, **LIMA G** (2005). Prodotti biologici per controllare le malattie dell'olivo. OLIVO & OLIO, vol. 6, p. 18-21, ISSN: 1127-0713
- De Curtis F, Caputo L, Castoria R, **LIMA G**, Stea G, De Cicco V (2004). Use of fluorescent amplified fragment length polymorphism (fAFLP) to identify specific molecular markers for the biocontrol agent *Aureobasidium pullulans* strain LS30. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 34, p.179-186, ISSN:0925-5214, doi:10.1016/j.postharvbio.2004.05.008
- LIMA G**, De Curtis F, Castoria R, De Cicco V (2003). Integrated control of apple postharvest pathogens and survival of biocontrol yeasts in semi-commercial conditions. EUROPEAN JOURNAL OF PLANT PATHOLOGY, vol. 109, p. 341-349, ISSN: 0929-1873, doi: 10.1023/A:1023595529142

- LIMA G** (2003). La Regia delle Acque. PALEOKASTRO, vol. 12, p. 29-34, ISSN: 1721-2324
- LIMA G**, De Curtis F., Spina A.M., De Cicco V. (2002). Survival and activity of biocontrol yeasts against powdery mildew of cucurbits in the field. IOBC/WPRS BULLETIN, vol. 25, p. 187-190, ISSN: 1027-3115
- Castoria R, De Curtis F, **LIMA G**, Caputo L, Pacifico S, De Cicco V (2001). *Aureobasidium pullulans* (LS-30) an antagonist of postharvest pathogens of fruits: study on its modes of action. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 22, p. 7-17, ISSN: 0925-5214, doi: 10.1016/S0925-5214(00)00186-1
- De Curtis F., Spina A.M., **LIMA G** (2001). Gravi attacchi di *Sclerotium rolfsii* su pomodoro in pieno campo. INFORMATORE FITOPATOLOGICO, vol. 9, p. 70-71, ISSN: 0020-0735
- LIMA G**, Arru S, De Curtis F, Arras G (1999). Influence of antagonist, host fruit and pathogen on the biological control of postharvest fungal diseases by yeasts. JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY, vol. 23, p. 223-229, ISSN: 1367-5435, doi: 10.1038/sj.jim.2900727
- Castoria R., **LIMA G** (1999). Patologia vegetale e agricoltura sostenibile. INFORMATORE FITOPATOLOGICO, vol. 1-2, p. 47-50, ISSN: 0020-0735
- LIMA G**, De Curtis F, Castoria R, De Cicco V (1998). Activity of the yeasts *Cryptococcus laurentii* and *Rhodotorula glutinis* against post-harvest rots on different fruits. BIOCONTROL SCIENCE AND TECHNOLOGY, vol. 8, p. 257-267, ISSN: 0958-3157, doi: 10.1080/09583159830324
- Arras G, De Cicco V, Arru S, **LIMA G** (1998). Biocontrol by yeasts of blue mould of citrus fruits and the mode of action of an isolate of *Pichia guilliermondii*. JOURNAL OF HORTICULTURAL SCIENCE AND BIOTECHNOLOGY, vol. 73, p. 413-418, ISSN: 1462-0316
- De Cicco V, **LIMA G** (1998). Impiego di lieviti antagonisti contro malattie postraccolta degli ortofrutticoli: selezione, attività e meccanismi d'azione. NOTIZIARIO SULLA PROTEZIONE DELLE PIANTE, vol. 8, p. 137-144, ISSN: 1124-9161
- Nigro F, Ippolito A, **LIMA G** (1998). Use of UV-C light to reduce Botrytis storage rot of table grapes. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 13, p. 171-181, ISSN: 0925-5214, doi: 10.1016/S0925-5214(98)00009-X
- LIMA G**, De Curtis F, Arras G, De Cicco V (1997). Attività interspecifica di lieviti antagonisti di patogeni postraccolta su differenti ortofrutticoli. ITALUS HORTUS, vol. 4, p. 105-108, ISSN: 1127-3496
- LIMA G**, Ippolito A, Nigro F, Salerno M (1997). Effectiveness of *Aureobasidium pullulans* and *Candida oleophila* against postharvest strawberry rots. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 10, p. 169-178, ISSN: 0925-5214, doi:10.1016/S0925-5214(96)01302-6
- Ippolito A, Nigro F, **LIMA G** (1997). Influence of the scion on the susceptibility of sour orange rootstock to Phytophthora gummosis and root rot. PHYTOPATHOLOGIA MEDITERRANEA, vol. 36, p. 81-86, ISSN: 0031-9465
- LIMA G**, Ippolito A, Nigro F, Salerno M (1997). Lotta biologica contro la muffa grigia dell'uva da tavola in conservazione mediante trattamenti pre-raccolta con *Aureobasidium pullulans* e *Candida oleophila*. DIFESA PIANTE, vol. 20, p. 21-28, ISSN: 0391-4119
- Ippolito A, Nigro F, Linsalata V, Cascarano N, **LIMA G** (1997). Marciumi dell'uva da tavola in post-raccolta. Risultati di trattamenti pre-raccolta con cloruro di calcio. ITALUS HORTUS, vol. 4, p. 27-31, ISSN: 1127-3496
- Ippolito A., Nigro F., **LIMA G**, Castellano M.A., Salerno M., Lattanzio V., Di Venere D. E Linsalata V. (1997). Mechanisms of resistance to *Botrytis cinerea* in wounds of cured kiwifruit. ACTA HORTICULTURAE, vol. 444, p. 719-724, ISSN: 0567-7572

- Castoria R, De Curtis F, **LIMA G**, Aloj B, De Cicco V (1997). Studio preliminare sui meccanismi d'azione dei lieviti *Rhodotorula glutinis* e *Cryptococcus laurentii* antagonisti di *Penicillium expansum*. ITALUS HORTUS, vol. 4, p. 109-112, ISSN: 1127-3496
- Castoria R, De Curtis F, **LIMA G**, De Cicco V (1997). beta-1,3-glucanase activity of two saprophytic yeasts and possible mode of action as biocontrol agents against postharvest diseases. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 12, p. 293-300, ISSN: 0925-5214, doi: 10.1016/S0925-5214(97)00061-6
- Lattanzio V, DiVenere D, Linsalata V, **LIMA G**, Ippolito A, Salerno M (1996). Antifungal activity of 2,5-dimethoxybenzoic acid on postharvest pathogens of strawberry fruits RID B-7579-2011. POSTHARVEST BIOLOGY AND TECHNOLOGY, vol. 9, p. 325-334, ISSN: 0925-5214, doi: 10.1016/S0925-5214(96)00031-2
- Ippolito A, Nigro F, **LIMA G** (1996). Efficacia di Fosetyl-Al e di Metalaxyl contro il marciume radicale da *Phytophthora* spp. in piante di clementine innestate su arancio amaro. DIFESA DELLE PIANTE, vol. 19, p. 81-88, ISSN: 0391-4119
- LIMA G**, Ippolito A, Nigro F, Romanazzi G, Schena L, Gatto M.A, Salerno M (1996). Lotta biologica contro marciumi postraccolta con *Aureobasidium pullulans* e *Candida oleophila*. INFORMATORE AGRARIO, vol. 45, p. 79-84, ISSN: 0020-0689
- Ippolito A, **LIMA G**, Nigro F, Elia G, Linsalata V, Cascarano N (1995). Influenza di trattamenti con calcio in preraccolta sulla muffa grigia dell'uva da tavola in conservazione. DIFESA DELLE PIANTE, vol. 18, p. 48-55, ISSN: 0391-4119
- Lattanzio V, De Cicco V, Di Venere D, **LIMA G**, Salerno M (1994). Antifungal activity of phenolics against fungi commonly encountered during storage. ITALIAN JOURNAL OF FOOD SCIENCE, vol. 1, p. 23-30, ISSN: 1120-1770
- Ippolito A, Lattanzio V, Nigro F, Di Venere D, **LIMA G**, Castellano M.A, Salerno M (1994). Improvement of kiwifruit resistance to Botrytis storage rot by curing. PHYTOPATHOLOGIA MEDITERRANEA, vol. 33, p. 132-136, ISSN: 0031-9465
- Ippolito A, **LIMA G**, Nigro F, Linsalata V, Cascarano N (1994). Influenza del calcio sulla muffa grigia dell'uva da tavola in post-raccolta e sull'attività di microrganismi antagonisti del patogeno. ITALUS HORTUS, vol. 1, p. 36-41, ISSN: 1127-3496
- LIMA G**, Ippolito A, Nigro F, Salerno M (1994). Tentativi di lotta biologica contro il mal secco degli agrumi (*Phoma tracheiphila*) a mezzo di batteri endofiti. DIFESA DELLE PIANTE, vol. 16, p. 43-49, ISSN: 0391-4119
- LIMA G**, Nigro F, Santomauro A, Ippolito A (1994). Ulteriori tentativi di lotta biologica contro il mal secco degli agrumi mediante isolati ipovirulenti del patogeno. DIFESA DELLE PIANTE, vol. 17, p. 135-144, ISSN: 0391-4119
- Traversa E, **LIMA G** (1993). Infezioni radicali di mal secco indotte da foglie di limoni infetti. DIFESA DELLE PIANTE, vol. 16, p. 35-40, ISSN: 0391-4119
- Ippolito A, **LIMA G**, Nigro F (1992). Influence of irrigation method on Phytophthora root rot of Citrus. Preliminary results. PHYTOPATHOLOGIA MEDITERRANEA, vol. 31, p. 170-174, ISSN: 0031-9465
- Ippolito A, Nigro F, **LIMA G** (1991). Identificazione di isolati di *Armillaria* spp. da agrumi in Puglia e Basilicata. MICOLOGIA ITALIANA, vol. 3, p. 103-107, ISSN: 0390-0460
- Ippolito A, Traversa E, **LIMA G**, De Cicco V (1989). Il marciume radicale fibroso degli agrumi in Puglia e Basilicata e caratteristiche culturali del patogeno. MICOLOGIA ITALIANA, vol. 3, p. 143-148, ISSN: 0390-0460
- De Cicco V, Ippolito A, Reforgiato Recupero G, **LIMA G** (1988). Comportamento di alcuni candidati portinnesti del limone alle infezioni di mal secco. AGRICOLTURA RICERCA, vol. 102, p. 93-96, ISSN: 0392-5609