

Academic qualifications and positions:

- 1976-84** University of Modena (Italy): Biological studies (Facoltà di Scienze Matematiche, Fisiche e Naturali) with Honours in Biochemistry, Botany and Plant Physiology. Graduation Thesis in Physiological and Molecular Plant Pathology at the Institute of Botany.
- 1984-1991** Universität Göttingen (Germany): Studies in Phytomedicine (Magisterstudium Phytomedizin), research thesis: Anfälligkeit verschiedener Kartoffelsorten auf Nassfäule hervorgerufen durch *Erwinia carotovora* subsp. Doctoral Studies in Plant Pathology, research thesis: Bedeutung von extrazellulären Polysacchariden für die Pathogenität phytopathogener Bakterien. Junior Scientist at the Institut für Pflanzenpathologie und Pflanzenschutz, Faculty of Agriculture.
- 1991-2005** University of Bologna (Italy): Senior Scientific Officer and Reader at the Department of Agri-environmental Science and Technologies, Faculty of Agriculture.
- Sept. 2005-present** University of Modena & Reggio Emilia: Appointed as Professor and Chair of Plant Pathology at the Faculty of Agriculture (Permanent Staff).

Relevant teaching and professional activity

- 1984-1990 University of Göttingen (Germany):** Institute of Plant Pathology, Supervision and tuition of graduate and PhD students.
- 1991-2005 University of Bologna (Italy), Faculty of Agriculture:** Assistant Professor at the Chair of Plant Pathology and Bacteriology.
- 1993-2002 Ministry of Agriculture, National Plant Protection Service (Italy):** Training, supervision and tuition of technical and research staff for the diagnosis and identification of quarantine and quality pathogens and for the official accreditation of diagnostic laboratories.
- 1994-1995 University of Plovdiv (Bulgaria):** Institute of Plant Pathology, Lecturer: "Plant Bacteriology" and "Modern techniques for the diagnosis of plant pathogens".
- 1997-2002 University of Bologna (Italy): Faculty of Agriculture,** Reader at the Chair of Agricultural Biotechnologies. Modules: Molecular Bacteriology, Diagnosis of Plant Pathogens.
- 2001-2006 University of Chile, Santiago, Facultad de Ciencias Agronomicas,** Contract Professor: "Aplicaciones de las Biotecnologías en Patología Vegetal".
- Since 2005 University of Modena & Reggio Emilia, Faculty of Agriculture:** appointed as Professor and Chair of Plant Pathology.
- Since 2014 Centre International de Hautes Etudes Agronomiques Méditerranéennes, Valenzano, Italy:** Contract Professor at the Postgraduate Specialization Programme in Sustainable IPM Technologies for Mediterranean Fruit and Vegetable Crops.

International activity, Acknowledgements and Awards

- 1991-present** Italian Governmental Delegate at the European and Mediterranean Plant Protection Organisation (EPPO), Paris. Panel for Bacterial Diseases.
- 1991-1994** World Trade Organisation (WTO). Italian Advisor for the GATT – Regulatory issues for the trade of plants and plant products under quarantine legislation. Italian Member for the EU-Australia Seed Equivalence Committee.
- 1994-present** National Advisor for the National Phytosanitary Service (Italy).
- 1994-1997** Italian National Expert at the EU Phytosanitary Standing Committee, Brussels.
- 2004-present** European Commission, Brussels. Short Term Expert for the Technical Assistance Information and Exchange (TAIEX) in the Balkans (Serbia, Montenegro, Kosovo, Albania) and Turkey.
- 2004-2006** European Agency for Reconstruction (EAR). Short Term Expert and Trainer for the Project 80.3235.01.Reform of Serbian Veterinary, Phytosanitary and Sanitary Inspectorates. Belgrade, Serbia.
- 2005-2007** European Agency for Reconstruction (EAR) and United Nations Interim Administration Mission in Kosovo (UNMIK). Short Term Expert and Trainer for the Project 04KOS01/05/015. Development of a Food Safety Control System for Kosovo. Prishtina, Kosovo.
- 2007-present** Co-founder and Italian Member of the European Association of Phytobacteriologists.

- 2007-2014 European Food Safety Agency (EFSA), Parma, Italy. *Ad hoc* Expert at the Plant Health Panel.
- 2008-present University of Modena & Reggio Emilia, Deputy Director of the University Centre for International Cooperation and Development.
- 2012-2013 Italian Ministry of Foreign Affairs, General Directorate for Cooperation and Development. Trainer and Short Term Expert for the Programme “Achieving European standards for quality conformity of Potato production in Lebanon (Acronym: EuLebPot)”.
- 2014-present Ministry of Agriculture, Rome. Member of the National Authority for the management of *Xylella fastidiosa*. Ministerial Decree 12.09.2014.
- Member of following scientific societies: Deutsche Phytomedizinische Gesellschaft; Società Italiana di Patologia Vegetale; International Organisation for Biological and Integrated Control; AIS3-Serbia.

Editorial activity

- Guest Editor, **Microorganisms**, MDPI, Basel, Switzerland
- Associate Editor, **Journal of Plant Diseases and Protection**, Springer International Publishing AG
- Associate Editor, **Frontiers in Microbiology**, Frontiers Media SA, Lausanne, Switzerland.
- Peer reviewer for following International Journals: **Plant Pathology**, **Journal of Plant Pathology**, **Phytopathologia Mediterranea**, **European Journal of Plant Pathology**, **Journal of Phytopathology**, **Plant Disease**.

Main research grants

Commission of the European Communities, Directorate General Agriculture. Contract CT90-399008. **Setting up of a method for the detection of *Xylella fastidiosa* in symptomless grapevine propagation material.**

Commission des Communautés Européennes, Direction Général Agriculture. Contract 91/0210. **Impact économique de la bacteriose du soja dans les conditions de cultures européennes. Diagnostic et épidémiologie.**

Commission of the European Communities, Directorate General Agriculture. Contract 8001-CT91-0202. **The development and application of nucleic acid probe technology for rapid and reliable detection and identification of quarantine bacteria.**

Commission of the European Communities, Directorate General Agriculture. Contract SMT4-CT97-2179. **Community method for the detection and diagnosis of potato brown rot (*Ralstonia solanacearum*).**

Commission of the European Communities, Directorate General Agriculture. EU-COST Action 873: **Bacterial diseases of Stone Fruits and Nuts.**

Commission of the European Communities, Directorate General Agriculture. 7th Framework Programme, Grant Agreement N. 226482: **Development of a new diagnostic tool using DNA barcoding to identify quarantine organisms in support of plant health (Acronym QBOL).**

Commission of the European Communities, Directorate General Agriculture. 7th Framework Programme, Grant Agreement N. 311875: **Development of seed testing methods for pests and pathogens of plant health concern (Acronym TESTA).**

Commission of the European Communities, Directorate General Agriculture. EU-COST Action CA16107 **EuroXanth: Integrating science on *Xanthomonadaceae* for integrated plant disease management in Europe.**

Commission of the European Communities, Directorate General Agriculture, EUPHRESKO. **DIP-ACIT: Consensus detection and identification protocol for *Acidovorax citrulli* on cucurbit seeds.**

Selection of recent scientific publications

- PEREZ G., V. CATARA, N. PUCCI, M. SCORTICHINI and S. LORETI, 2013 Protocollo diagnostico per *Xanthomonas arboricola* pv. *pruni* (XAP). *Petria* 23(2): 295-322.
- HENRY C., E. STEFANI et al., 2013. TESTA – Seed health: development of seed treatment method, evidence for seed transmission and assessment of seed health. *J. Plant Pathol.* 95(4 Supplement) S4.47.

- SCHRADER G., P. MULLER and E. STEFANI, 2014. *Candidatus Liberibacter solanacearum* - eine neue Gefahr für den Kartoffel- und Tomatenanbau. Journal für Kulturpflanzen, 66: 169-174.
- TONTOU R., D. GIOVANARDI and E. STEFANI, 2014. Pollen as a possible pathway for the dissemination of *Pseudomonas syringae* pv. *actinidiae* and bacterial canker of kiwifruit. Phytopathologia Mediterranea, 53: 333-339.
- LORETI S., N. PUCCI, G. PEREZ, V. CATARA, M. SCORTICHINI, P. BELLA, P. FERRANTE, D. GIOVANARDI and E. STEFANI, 2015. Detection and identification of *Xanthomonas arboricola* pv. *pruni* from symptomless plant material: results of an Italian test performance study. Bulletin OEPP/EPPO Bulletin 45(1): 41-51.
- GIOVANARDI D., E. BIONDI, S. PEREZ, M. IGNJATOV, K. GASIC, M. FERRARI, R. JEVTIC and E. STEFANI, 2015. Seed transmission of *Xanthomonas vesicatoria* and *Clavibacter michiganensis* subsp. *michiganensis* in tomato and *Xanthomonas euvesicatoria* in pepper and implementation of seed disinfection methods. In: Proceedings of the VII Congress on Plant Protection, Zlatibor, Serbia, 24-28 November 2014. ISBN 978-86-83017-27-0 . pp.65-70.
- GIOVANARDI D., M. FERRARI and E. STEFANI, 2015. Seed transmission of *Acidovorax citrulli*, implementation of its detection in watermelon seeds and development of disinfection methods In: Proceedings of the VII Congress on Plant Protection, Zlatibor, Serbia, 24-28 November 2014. ISBN 978-86-83017-27-0 . pp. 71-76.
- TONTOU R., F. GAGGIA, L. BAFFONI, V. VENTURI and E. STEFANI, 2016. Isolation and characterisation of an endophyte from *Actinidia* sp. showing a strong antagonistic activity against *Pseudomonas syringae* pv. *actinidiae*. Plant and Soil 405: 97-106.
- TONTOU R., D. GIOVANARDI, M. FERRARI and E. STEFANI, 2016. Isolation of bacterial endophytes from *Actinidia chinensis* and preliminary studies on their possible use as antagonists against *Pseudomonas syringae* pv. *actinidiae*. Journal of Berry Research 6 (1), 1-12.
- GIOVANARDI D., D. DALLAI, L. DONDINI, W. MANTOVANI and E. STEFANI, 2016. Elicitation of resistance to bacterial canker of stone fruits by humic and fulvic acids (glucohumates): a cDNA-AFLP-dHPLC approach. Scientia Horticulturae 212: 183-192.
- GIOVANARDI D., S. BONNEAU, S. GIRONDE, M. LE SAUX-FISCHER, C. MANCEAU and E. STEFANI, 2016. Morphological and genotypic features of *Xanthomonas arboricola* pv. *juglandis* populations from walnut groves in Romagna region, Italy. European Journal of Plant Pathology, 145(1): 1-16.
- GIOVANARDI D., D. DALLAI and E. STEFANI, 2017. Population features of *Xanthomonas arboricola* pv. *pruni* from *Prunus* spp. orchards in northern Italy. European Journal of Plant Pathology 147(4): 761-771.
- CHOUJIRI E., F. JREIJIRI, S. WAKIM, M. EL-KHOURI, F. VALENTINI, N. DUBLA, R. HABCHY, K. AKL and E. STEFANI. 2017. Surveys of potato-growing areas and surface water in Lebanon for the detection of potato brown and ring rots. Phytopathologia Mediterranea 56(1): 87-97.
- GIOVANARDI D., E. BIONDI, M. IGNJATOV, R. JEVTIC and E. STEFANI, 2018. Impact of bacterial spot outbreaks on the phytosanitary quality of tomato and pepper seeds. Plant Pathology, 67(5): 1168-1176.
- VURUKONDA S.S.K.P., D. GIOVANARDI and E. STEFANI, 2018. Plant growth promoting and biocontrol activity of *Streptomyces* spp. as endophytes. International Journal of Molecular Sciences, 19(4), doi: 10.3390/ijms19040952
- GIOVANARDI D., P. FERRANTE, M. SCORTICHINI and E. STEFANI, 2018. Characterisation of *Pseudomonas syringae* isolates from apricot orchards in northeastern Italy. European Journal of Plant Pathology, 151(4): 901-917.

- LORETI S., A. CUNTY, N. PUCCI, A. CHABIRAND, E. STEFANI et al., 2018. Performance of diagnostic tests for the detection and identification of *Pseudomonas syringae* pv. *actinidiae* (Psa) from woody samples. European Journal of Plant Pathology. 152(3): 657-676
- GIOVANARDI D., S.A. SUTTON, E. STEFANI and R.R WALCOTT, 2018. Factors influencing the detection of *Acidovorax citrulli* in naturally contaminated cucurbitaceous seeds by PCR-based assays. Seed Science and Technology, 46 (1): 93-106.
- GIOVANI B., G. CELLIER, M. McMULLEN, ... E. STEFANI and F. PETTER, 2019. From transnational research collaboration to regional standards | De la recherche collaborative internationale aux normes regionals. Biotechnology, Agronomy and Society and Environment, 23(1): 30-35.
- AIELLO D., C. RESTUCCIA, E. STEFANI, A. VITALE, G. CIRVILLERI, 2019. Postharvest biocontrol ability of *Pseudomonas synxantha* against *Monilinia fructicola* and *Monilinia fructigena* on stone fruit. Postharvest Biology and Technology, 149: 83-89.
- MEKAM P.N., S. MSRTINI, J. NGUEFACK, D. TAGLIAZUCCHI, E. STEFANI, 2019. Phenolic compounds profile of water and ethanol extracts of *Euphorbia hirta* L. leaves showing antioxidant and antifungal properties. South African Journal of Botany, 127: 319-332.
- VURUKONDA S.S.K.P., M. MANDRIOLI, G. D'APICE, E. STEFANI, 2020. Draft genome sequence of plant growth-promoting *Streptomyces* sp. Strain SA51, isolated from olive trees. Microbiology Resource Announcements, 9(1), e0076819.
- ALTIN I., L. CASOLI, E., STEFANI, 2020. First report of bacterial spot caused by *Xanthomonas cucurbitae* on pumpkin in Italy. New Disease Reports 41: 21. doi.org/10.5197/j.2044-0588.2020.041.021

Referent author of following phytosanitary standards for EPPO

1. EPPO, 2006. PM7/64 *Xanthomonas arboricola* pv. *pruni*. Bulletin OEPP/EPPO Bulletin 36:129-133.
2. EPPO, 2013. PM 7/110 (1) *Xanthomonas* spp (*Xanthomonas euvesicatoria*, *Xanthomonas gardneri*, *Xanthomonas perforans*, *Xanthomonas vesicatoria*) causing bacterial spot on tomato and pepper. Bulletin OEPP/EPPO Bulletin 43(1):7-20.
3. EPPO, 2014. PM 7/120 (1) *Pseudomonas syringae* pv. *actinidiae*. Bulletin OEPP/EPPO Bulletin 44(3): 360-375.
4. EPPO, 2016. PM 1/127(1) *Acidovorax citrulli*. Bulletin OEPP/EPPO Bulletin 46(3): 444-462
5. EPPO, 2020. Datasheet on *Acidovorax citrulli*. In: EPPO Global Database. <https://gd.eppo.int/taxon/PSDMAC/datasheet>

Publications as ad-hoc Expert at the Working Group on Bacteria at the EFSA Panel on Plant Health:

1. EFSA, 2007: Scientific Opinion of the Panel on Plant Health on a request from the European Commission on Pest risk assessment made by France on *Ralstonia solanacearum* race 2 considered by France as harmful in French overseas departments of French Guyana, Guadeloupe, Martinique and Réunion. EFSA Journal 673, 1-27.
2. EFSA, 2008: Scientific Opinion of the Panel on Plant Health on a request from the European Commission on Pest risk assessment made by France on *Xanthomonas campestris* pv. *musacearum*, considered by France as harmful in French overseas departments of French Guyana, Guadeloupe, Martinique and Réunion. EFSA Journal 669, 1-30 .

3. EFSA, 2008: Scientific Opinion of the Panel on Plant Health on a request from the European Commission on Pest risk assessment made by France on *Ralstonia* sp. agent of banana blood disease considered by France as harmful in French overseas departments of French Guyana, Guadeloupe, Martinique and Réunion. EFSA Journal 649, 1-23.
4. EFSA, 2008: Scientific Opinion of the Panel on Plant Health on a request from the European Commission on Pest risk assessment made by France on *Xanthomonas axonopodis* pv. *citri* considered by France as harmful in French overseas departments of French Guyana, Guadeloupe and Martinique. EFSA Journal 682, 1-22.
5. EFSA, 2013. Scientific opinion on the risk to plant health posed by *Burkholderia caryophylli* for the EU territory with the identification and evaluation of risk reduction options. EFSA Journal 11(1):3071 [91 pp.] doi:10.2903/j.efsa.2013.3071.
6. EFSA, 2013: Scientific Opinion on the risk of *Dickeya dianthicola* for the EU territory with identification and evaluation of risk reduction options. EFSA Journal 11(1):3072. [115 pp.] doi:10.2903/j.efsa.2013.3072.
7. EFSA, 2014. Scientific opinion on the pest categorisation of *Xylophilus ampelinus* (Panagopoulos) Willems et al. EFSA Journal 12(12):3921 [26 pp.] doi:10.2903/j.efsa.2014.3921.
8. EFSA, 2014. Scientific opinion on the pest categorisation of *Erwinia amylovora* (Burr) Winsl et al. EFSA Journal 12(12):3922 [37 pp.] doi:10.2903/j.efsa.2014.3922.
9. EFSA, 2014. Scientific opinion on the pest categorisation of *Xanthomonas andropogonis* pv. *phaseoli* and *Xanthomonas fuscans* subsp. *fuscans*. EFSA Journal 12(10):3856 [30 pp.] doi:10.2903/j.efsa.2014.3856.
10. EFSA, 2014. Scientific opinion on the pest categorisation of *Xanthomonas campestris* pv. *pruni* Smith (Dye). EFSA Journal 12(10):3857 [25 pp.] doi:10.2903/j.efsa.2014.3857.
11. EFSA, 2014. Scientific opinion on the pest categorisation of *Pseudomonas syringae* pv. *persicae* (Prunier et al.) Young et al.. EFSA Journal 12(10):3855 [26 pp.] doi:10.2903/j.efsa.2014.3855.
12. EFSA, 2014. Scientific opinion on the pest categorisation of *Clavibacter michiganensis* subsp. *michiganensis* (Smith) Davis et al. EFSA Journal 12(6):3721 [29 pp.] doi:10.2903/j.efsa.2014.3721.
13. EFSA, 2014. Scientific opinion on the pest categorisation of *Xanthomonas campestris* pv. *vesicatoria* (Doidge) Dye. EFSA Journal 12(6):3720 [29 pp.] doi:10.2903/j.efsa.2014.3720.

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Pest Risk Analysis for EPPO as representative for Italy

1. Giltrap N., Munyaneza J., Nissinen A., Soliman T., Stefani E., Tjou-Tam-Sin L., van der Gaag D.J., Sundheim L., 2012: Final Pest Risk Analysis for *Candidatus Liberibacter solanacearum* in *Solanaceae*. EPPO, Paris. [109 pp.] In: http://www.eppo.int/QUARANTINE/Pest_Risk_Analysis/PRA_intro.htm
2. Giltrap N., Munyaneza J., Nissinen A., Soliman T., Stefani E., Tjou-Tam-Sin L., van der Gaag D.J., Sundheim L., 2012: Final Pest Risk Analysis for *Bactericera cockerelli*. EPPO, Paris. [10 pp.] In: http://www.eppo.int/QUARANTINE/Pest_Risk_Analysis/PRA_intro.htm