PERSONAL INFORMATION

Maurizio Ruzzi

University of Tuscia
Department for Innovation in Biological, Agro-food and Forest systems (DIBAF)

https://orcid.org/0000-0003-4616-1507; https://www.researchgate.net/profile/Maurizio-Ruzzi

Sex | *Date of birth* | *Nationality*

Enterprise	University	EPR
☐ Management Level	☐ Full professor	☐ Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator
☐ Mid-Management Level	☒ Associate Professor	☐ Level III Researcher and Technologist
☐ Employee / worker level	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	☐ Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

2014 – Present — **Head of the teaching board of the Bachelor and the Master's degree in Food Science and Technology**
University of Tuscia (Viterbo, Italy), Dept. for Innovation in Biological, Agro-food and Forest systems (DIBAF)
▪ *Responsible for the administration, program development, and quality assurance of academic programs. Represen the University's educational programs in communication both internally and externally.*
Business or sector University

2000 – Present — **Associate Professor of Fermentation Biotechnology**
University of Tuscia (Viterbo, Italy), Dept. for Innovation in Biological, Agro-food and Forest systems (DIBAF)
▪ *Teaching and research in agro-food microbiology, food safety, and fermentation biotechnology*
Business or sector University

1988 – 2000 — **Researcher in Agri-food and Environmental Microbiology**
Faculty of Agricultural Sciences, University of Tuscia (Viterbo, Italy)
▪ *R&D projects with national and international research organizations and companies*
Business or sector University

EDUCATION AND TRAINING

2000 — **CNRS Short-term Fellowship**
CNRS Délégation Paris-Villejuif (Villejuif, France)
▪ *Genetics and molecular biology of Saccharomyces cerevisiae*

1984-1986 — **PhD in Advanced Microbiology, supported by Fondazione Cenci-Bolognetti fellowship**
Heinrich-Heine-Universität Düsseldorf (Germany)
▪ *Molecular genetics and biotechnology of non-conventional yeasts.*

1979-1983 — **Master of Science in Biology**
Sapienza University of Rome (Italy)
▪ *Advanced training in a wide range of biological disciplines including chemistry and biochemistry, plant and animal biology, microbiology and virology, human physiology and immunology, genetics.*

WORK ACTIVITIES

Editorial activity — Associate Editor for the section *Plant Abiotic Stress* of Frontiers Plant Science. Guest Associate Editor for the section *Crop and Product Physiology* of Frontiers Plant Science. Reviewer Editor for Frontiers in Food Science and Technology (section *Food Biotechnology*), MDPI Foods and Journal of Plant Pathology

Invited presentations — II World Congress on the Use of Biostimulants in Agriculture (Florence, November 16-19, 2015), Plenary Lecture on "*Effects of a protein hydrolysate-based biostimulant and two micronutrient-based fertilizers on plant growth and epiphytic bacterial population of lettuce"*

Patents — *"Novel environmental-friendly anti-microbial adhesion agents for anti-fouling paints and anti-fouling paints containing them".* Patent published as: US8398759B2; WO2009138950A1; EP2285914B1

PERSONAL SKILLS

Mother tongue(s)
Other language(s)

Job-related skills: Mentoring, teaching and supervising PhD students and Early Career Researchers. Demonstrated success in workin collaboratively with public and private organizations. Demonstrated skill in coordinating, developing and delivering educational programs.

Digital skills

Other skills: In 2020, Prof. Ruzzi was designated as a Committee member of the European Working Group CEN/TC 455/WG 3 "Pathogenic and non-pathogenic microorganisms" and Project leader for the development of the Technical Specifications and European Harmonised Standards for "Plant Biostimulants - Determination of *Listeria monocytogenes*" and "Plant Biostimulants - Anaerobic plate count".

ADDITIONAL INFORMATION

Publications

total number of publications in peer-review journals 60 (Scopus); 71 (WoS)
total Impact Factor (IF) (average IF/paper), 8.05 (2021)
total number of citations: 1738 (Scopus); 2502 (Scholar)
H index: 23 (Scopus); 24 (WoS); 26 (Scholar)

ORCID ID: 0000-0003-4616-1507. SCOPUS Author ID: 7003338480. WoS ID: N-1312-2015.
Google Scholar: https://scholar.google.com/citations?hl=it&user=IBDkirQAAAAJ

1. Luziatelli, F., Melini, F., Bonini, P., Melini, V., Cirino, V., Ruzzi, M. (2021). Production of indole auxins by *Enterobacter* sp. Strain p-36 under submerged conditions. Fermentation, 7, 138. DOI: 10.3390/fermentation7030138
2. Rouphael, Y., Formisano, L., Ciriello, M., Cardarelli, M., Luziatelli, F., Ruzzi, M., Ficca, A.G., Bonini, P., Colla, G. (2021). Natural biostimulants as upscale substitutes to synthetic hormones for boosting tomato yield and fruits quality. Italus Hortus, 28, 88-99. DOI: 10.26353/J.ITAHORT/2021.1.8899
3. Luziatelli, F., Gatti, L., Ficca, A.G., Medori, G., Silvestri, C., Melini, F., Muleo, R., Ruzzi, M. (2020). Metabolites Secreted by a Plant-Growth-Promoting *Pantoea agglomerans* Strain Improved Rooting of *Pyrus communis* L. cv Dar Gazi Cuttings. Frontiers in Microbiology, 11, 539359. DOI: 10.3389/fmicb.2020.539359
4. Luziatelli, F., Ficca, A.G., Bonini, P., Muleo, R., Gatti, L., Meneghini, M., Tronati, M., Melini, F., Ruzzi, M. (2020).A Genetic and Metabolomic Perspective on the Production of Indole-3-Acetic Acid by *Pantoea agglomerans* and Use of Their Metabolites as Biostimulants in Plant Nurseries. Frontiers in Microbiology, 11, 1475. DOI: 10.3389/fmicb.2020.01475
5. Luziatelli, F., Ficca, A.G., Cardarelli, M., Melini, F., Cavalieri, A., Ruzzi, M. (2020). Genome sequencing of *Pantoea agglomerans* C1 provides insights into molecular and genetic mechanisms of plant growth-promotion and tolerance to heavy metals. Microorganisms, 8, 153. DOI: 10.3390/microorganisms8020153
6. Saia, S., Aissa, E., Luziatelli, F., Ruzzi, M., Colla, G., Ficca, A.G., Cardarelli, M., Rouphael, Y. (2020). Growth-promoting bacteria and arbuscular mycorrhizal fungi differentially benefit tomato and corn depending upon the supplied form of phosphorus. Mycorrhiza, 30, 133-147. DOI: 10.1007/s00572-019-00927-w
7. Luziatelli, F., Ficca, A.G., Colla, G., Švecová, E.B., Ruzzi, M. (2019). Foliar application of vegetal-derived bioactive compounds stimulates the growth of beneficial bacteria and enhances microbiome biodiversity in lettuce. Frontiers in Plant Science, 10, 60. DOI: 10.3389/fpls.2019.00060
8. Agnolucci, M., Avio, L., Pepe, A., Turrini, A., Cristani, C., Bonini, P., Cirino, V., Colosimo, F., Ruzzi, M., Giovannetti, M. (2019). Bacteria associated with a commercial mycorrhizal inoculum: Community composition and multifunctional activity as assessed by illumina sequencing and culture-dependent tools. Frontiers in Plant Science, 9, 1956. DOI: 10.3389/fpls.2018.01956
9. Colla, G., Hoagland, L., Ruzzi, M., Cardarelli, M., Bonini, P., Canaguier, R., Rouphael, Y. (2017). Biostimulant action of protein hydrolysates: Unraveling their effects on plant physiology and microbiome. Frontiers in Plant Science, 8, 2202. DOI: 10.3389/fpls.2017.02202
10. Ruzzi, M., Aroca, R. (2015).Plant growth-promoting rhizobacteria act as biostimulants in horticulture. Scientia Horticulturae, 196, pp. 124-134. DOI: 10.1016/j.scienta.2015.08.042

Projects

- MUR-FIRS Project "*Laboratorio dell'Innovazione della filiera olivicola-olearia*" (LIOO) (CIPE 105/2015; DM 2072/16; DD 189/20 MUR); Project Leader for Work Package 4.
- Research agreement DIBAF University of Tuscia - Atens SL (Tarragona, Spain) on "*Development of ne biostimulants and bioinoculants for agricultural use and optimization of the production process*" (2016-17; 2021-24); Project Leader.
- Research agreement DIBAF University of Tuscia - Italpollina SpA (Rivoli Veronese, VR, Italy) on "*Biological valorization of industrial wastes for use as plant biostimulants*"; Project Leader.
- Mipaaf-Project. "*OLEA – Genomica e Miglioramento genetico dell'Olivo*" (D.M.27011/7643/10, 30/11/2010 Project Participant.