

PERSONAL INFORMATION

Stefano Mocali



Affiliation
Council for Agricultural Research and Economics (CREA)
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Facebook none

Sex Male | **Nationality** Italian

| Enterprise | University | EPR |
|--|---|---|
| <input type="checkbox"/> Management Level | <input type="checkbox"/> Full professor | <input checked="" type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist / Principal Investigator |
| <input type="checkbox"/> Mid-Management Level | <input type="checkbox"/> Associate Professor | <input type="checkbox"/> Level III Researcher and Technologist |
| <input type="checkbox"/> Employee / worker level | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator | <input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator |

WORK EXPERIENCE

From January 2023 - present

Research director

CREA-AA, Firenze

- Principal investigator for my group and coordinator of 2 EU projects (H2020)
Business or sector: Soil microbial ecology and biodiversity, biotechnology, NGS, microbial phenomics, plant-microbe interactions, soil sustainability

From 2021 to 2022

First Researcher

CREA-AA, Firenze

- Principal investigator for my group and coordinator of 2 EU projects (H2020)
Business or sector: Soil microbial ecology and biodiversity, biotechnology, NGS, microbial phenomics, plant-microbe interactions, soil sustainability

From 2010 to 2020

Researcher

CREA-AA, Firenze

- Principal investigator of the Soil Microbiology group of CREA-AA in several national and EU projects
Business or sector: Soil microbial ecology and biodiversity, biotechnology, NGS, microbial phenomics, plant-microbe interactions

EDUCATION AND TRAINING

From May 2000 to May 2003

PhD in "Soil Science and Climatology"

Soil Science and Plant Nutrition Department, University of Florence, Florence (Italy) and Council for Agricultural Research and Economics - Research Centre for Plant and Soil Interactions (CREA-RPS), Rome (Italy)

- Soil microbial diversity, molecular ecology, soil microbiology and biochemistry, fertilizers

WORK ACTIVITIES

Editorial activity

- Member of the Editorial Board of Frontiers in Microbiology (section "Microbe and Virus Interactions with Plants"): <https://www.frontiersin.org/journals/microbiology/sections/microbe-and-virus-interactions-with-plants#editorial-board>
- Member of the Editorial Board of the open access Agriculture (<https://www.mdpi.com/journal/agriculture/editors>)

- Invited presentations**
- Invited speaker in the Brazilian meeting VI Reunião Nordestina de Ciência do Solo -Northeastern Soil Science Meeting - discussing about "The concept of microbial terroir in Viticulture". Recife, Brazil. 2nd December, 2020
 - Invited speaker at the Workshop of the "Valpo4CircularEconomy" project, Politecnico di Torino, 28th of January 2020, presenting "Il microbiota del suolo: importanza ed applicazioni per un'agricoltura sostenibile".
- Grants**
- Winner of a CREA grant for 3,5 months visit at the Netherlands Institute of Ecology (NIOO-KNAW), Wageningen (The Netherlands). Period: from 20-09-2012 to 20-12-2012.
- Patents**
- European patent n. 04025494.8-2111 (20-12-2004): Process for fragmentation of fungal, bacterial or yeast cell DNA and for inactivating residual antibiotics in fermentation biomass.

PERSONAL SKILLS

Mother tongue(s) Spanish

ADDITIONAL INFORMATION

Publications total number of publications in peer-review journals: 63 (Source: Scopus)
total number of citations: 3144 (Source: Scopus)
H index: 25 (Source: Scopus)

- 1) Canfora, L., Costa, C., Pallottino, F., & Mocali, S. (2021). Trends in soil microbial inoculants research: A science mapping approach to unravel strengths and weaknesses of their application. *Agriculture*, 11(2), 158. <https://doi.org/10.3390/agriculture11020158>
- 2) Mocali, S., Kuramae, E. E., Kowalchuk, G. A., Fornasier, F., & Priori, S. (2020). Microbial functional diversity in vineyard soils: sulfur metabolism and links with grapevine plants and wine quality. *Frontiers in Environmental Science*, volume 8, 75. <https://doi.org/10.3389/fenvs.2020.00075>
- 3) Thompson, L. R., Sanders, J. G., McDonald, D., Amir, A., Ladau, J., Locey, K. J., [...] & Navas-Molina, J. A. (2017). A communal catalogue reveals Earth's multiscale microbial diversity. *Nature*, 551(7681). <https://doi.org/10.1038/nature24621>
- 4) Mocali, S., Chiellini, C., Fabiani, A., Decuzzi, S., de Pascale, D., Parrilli, E., [...] & Giudice, A. L. (2017). Ecology of cold environments: new insights of bacterial metabolic adaptation through an integrated genomic-phenomic approach. *Scientific Reports*, 7(1), 839. <https://doi.org/10.1038/s41598-017-00876-4>
- 5) Galardini, M., Mengoni, A., Biondi, E. G., Semeraro, R., Florio, A., Bazzicalupo, M., ... & Mocali, S. (2014). DuctApe: A suite for the analysis and correlation of genomic and OmniLog™ Phenotype Microarray data. *Genomics*, 103(1), 1-10. <https://doi.org/10.1016/j.ygeno.2013.11.005>

- Projects**
- 2016-2018: Regional Project "Assessment of plant-microbe interactions in Tuscan vineyards through a metagenomic approach (**METAGEOWINE**)". Funded by Ente Cassa di Risparmio di Firenze (grant n. 2015/0939). Budget: 35K€. Role: Coordinator.
 - 2017-2021: EU project " New approaches for protection in a modern sustainable viticulture: from nursery to harvesting (**LIFE Green Grapes**)" -[LIFE16-ENV/IT/000566]. Budget: 2,5M€. Role: CREAAA Research Unit Responsible.
 - 2019-2024: EU project "Exploiting the multifunctional potential of belowground biodiversity in horticultural farming (**EXCALIBUR**)" – [H2020 n.817946, SFS-01-2018]. Budget: 7M€. Role: Coordinator.
 - 2021 – 2024: EU project "Modeling and mapping soil biodiversity patterns and functions across Europe (**MINOTAUR**)" funded under the EJP SOIL programme entitled "Towards climate-smart sustainable management of agricultural soils" (H2020 n.862696). Budget: 2M€. Role: Coordinator.

Other Relevant Information

- Head of the CREA-AA Research Centre in Florence, since June 2017 to January 2019
- Italian National Academic Qualification as Full Professor in Agricultural Microbiology (sector AGR16), since August 2019
- Member of the Directive of the Italian Society of Soil Science (SISS) and the Italian Society for General Microbiology and Microbial Biotechnology (SIMGBM)
- Member of the Earth Microbiome Project consortium: <https://earthmicrobiome.org/people/working-group-consortium>
- Evaluator of H2020 project proposals, call SFS-21-2020 (contract n. CT-EX2015D230912-101, 17-09-2020)

Florence, 09-10-2024

Stefano Mocali