# Special Issue

# Genetic, Metabolic and Microbial Activity in Plants

**Message from the Guest Editors**

In recent years, nanotechnology, microbiology, and biotechnology approaches have been the starting point of revolutionary innovations in the applicative research field, such as the discovery of new active compounds used in pharmaceutical, nutraceutical, and agri-food industries. However, microbes (including endophytes, epiphytes, rhizobacteria, or mycorrhizae), nanoscience and nanoparticles, and omics sciences have not yet expressed their full potential to further enrich the field of possibilities.

There is currently widespread interest in utilizing innovative drugs, essential oils, and plant extracts to manage crops, as alternatives to conventional methods. The use of plant microbiomes as supplements to complement or replace the chemical fertilizers and other agrochemicals compounds in a more sustainable way also represents an innovative approach in agriculture.

This Special Issue of Microorganisms will take stock of the latest news concerning nanotechnologies, microbiology, and biotechnology and underline their potential in plant health defense to improve agricultural practices and production.


**Guest Editors**

Dr. Innocenzo Muzzalupo

science and food technology in the Consiglio per la Ricerca in agricoltura e l'analisi dell'Economia Agraria (CREA) – centro di ricerca per l'olivicoltura e l'industria olearia (Agricultural Research Council - olive growing and oil industry research centre, CREA-OLI) in Italy

Prof. Adriana Ada Chiappetta

Dipartimento di Biologia, Ecologia e Scienza della Terra, Università della Calabria, Cosenza, Italy


**Deadline for manuscript submissions**

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*Microorganisms*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

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# About the Journal

## Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

## Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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