

Special Issue

Advancements in Biofertilizers and Plant Growth-Promoting Rhizobacteria for the Sustainable Cultivation of Horticulture Products

Message from the Guest Editors

A current critical global dilemma in modern agriculture is being posed by the need to increase crop production to feed the continuously growing world population while considering the sustainable use of natural resources. In this context, the use of rhizospheric and endophytic microorganisms has been proven to be effective not only for increasing crop productivity but also for reducing the use of agrochemicals. This Special Issue focuses on current state-of-the-art advancements regarding the use of microbial inoculants and soil amendments for sustainable horticultural production and these products' phytochemical quality assessment. In addition, it is highly recommended that the submitted manuscripts study the mechanisms involved in beneficial microorganisms' biofertilization effects on crop growth and harvested products' quality. Considering that these types of studies are complex and multifactorial, involving different aspects related to food crops, plant microbiota, and intrinsic agronomical systems. These studies should aim to relate biochemical and genomic mechanisms to their effects on the agricultural system.

Guest Editors

Dr. Rogelio Valadez Blanco

Dr. Christopher A Dunlap

Dr. Gianluca Caruso

Dr. Otilia Cristina Murariu

Deadline for manuscript submissions

30 August 2025



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/215412

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

[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)





Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



[mdpi.com/journal/
agronomy](https://mdpi.com/journal/agronomy)



About the Journal

Message from the Editor-in-Chief

Agronomy draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

Agronomy is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)