

Special Issue

Benefits of Innovative Microbial Biosolutions to Sustain Crop Health

Message from the Guest Editors

The use of biosolutions—i.e., biofertilizers, biostimulants, and biocontrols—constitutes a promising approach aimed at reducing the use of synthetic products and developing sustainable farming systems that are more respectful of the environment. Among these solutions, harnessing the potential of microorganisms to promote plant growth and health is a key area of interest in developing relevant bio-inoculants. Indeed, microorganisms present numerous interesting abilities contributing to the establishment of beneficial plant–microbe interaction and, therefore, sustaining crop development. However, field deployment of such microbial biosolutions is often challenging. To ensure and promote the effective transfer and success of biosolutions in agriculture, several research areas are still needed. The development of bio-inoculants needs to rely on reliable methods for the screening of promising microbial candidates and the characterization of their potential. Determination of the modifications induced on the entire soil–plant system following microbial inoculation is crucial to better understanding and disentangle all mechanisms of action.

Guest Editors

Dr. Mélanie Bressan

AGHYLE Rouen UP 2018.C101, UniLaSalle, SFR NORVEGE FED 4277, 76130 Mont Saint Aignan, France

Dr. Isabelle Trinsoutrot-Gattin

Agroecology, Hydrogeochemistry, Environments and Resources (AGHYLE), UniLaSalle, Mont-Saint-Aignan, France

Deadline for manuscript submissions

closed (20 December 2024)



Agronomy

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.7



mdpi.com/si/203983

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)