

Special Issue

Plant Growth-Promoting Microorganism-Integrated Phytotechnology: A Sustainable Approach for Crop Production Under Climate Change

Message from the Guest Editor

The increasing dependence of agriculture on the excessive use of agrochemicals and mineral fertilisers is a major contributor to the degradation and loss of quality of the soil environment. As a result, current trends are based on the search for sustainable agricultural practices, in line with environmental policy elements, to reduce environmental problems and ensure an adequate supply of high-quality, healthy food. One way is to harness the potential of plant growth-promoting microorganisms (PGPM), including both bacteria and fungi. Topics of interest include, but are not limited to, the following:

- Biotechnological potential of microorganisms in mediating phytostimulation of plant growth and enhancing nutrient availability.
- Role of microorganisms in mitigating biotic and abiotic stresses associated with climate change.
- Diversity and functional analyses of microbial communities in optimising plant–soil systems.
- Impact of microorganisms on soil health and crop productivity.
- Applications of soil microbes in agriculture and restoration of degraded land.
- Recent developments in plant–soil–microbe interactions in sustainable agriculture.

Guest Editor

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Deadline for manuscript submissions

20 October 2025



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/237761

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

Editor-in-Chief

Prof. Dr. Les Copeland
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Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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