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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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

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