

Special Issue

Beneficial Soil Microorganisms for Improved Plant Performance and Resilience in Sustainable Agricultural Systems

Message from the Guest Editors

Achieving agricultural sustainability is one of the major challenges of mankind. Several groups of soil microorganisms with their wide range of plant beneficial traits can be used as agronomic tools that can contribute to mitigating the deleterious effects of intensive farming and progress towards agricultural sustainability. The interest in applying beneficial microbes for improving plant performance has been steadily growing. In this context, this Special Issue welcomes recent advances on the roles of beneficial soil microorganisms in sustainable cropping systems. Topics include but are not limited to:

- Crop yield enhancement by soil microbes;
- Influence of beneficial soil microbes in improving the nutritional value of crop foods;
- Microbe-assisted mitigation of plant abiotic stresses (e.g., drought, salinity) related to climate change;
- Contribution of soil microbes for increasing crop tolerance to biotic stresses caused by pathogenic bacteria, fungi, viruses, nematodes, insects, arachnids and weeds;
- Soil microbial diversity and its relation to crop performance;
- Microbial formulations for agricultural applications;
- Inoculation methods of beneficial soil microbes.

Guest Editors

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