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Beneficial Soil Bacteria: Many Recipes to Promote Plant Growth and Protection

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Message from the Guest Editors

Agriculture is currently facing a number of ecologic and economic challenges. On the one hand, climate change has highlighted the importance of crop resilience and genetic diversity, and there is a demand for a more efficient use of resources and the implementation of sustainable and eco-friendly practices. On the other hand, these aspects are often neglected due to the constant pressure to increase food production in the light of a growing world population.

Soil bacteria have the potential to promote plant growth and contribute to plant protection against biotic and abiotic stresses in an ecologically sustainable way. From fundamental research focusing on individual genes or metabolic networks to large-scale applied field studies, there are many diverse approaches to further our understanding of the role and impact of beneficial soil bacteria on crop production.

This Special Issue is dedicated to research performed on all aspects of the biology of these bacteria as well as host interaction mechanisms. We invite scientists to contribute with original research and review articles.



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Special Issue



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