



Frontiers in Soil Microbial Ecology and Its Role in Sustainable Agroecosystems

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Message from the Guest Editors

The world population continues to increase and there is a real concern regarding our ability to feed all of these people, an endeavor that requires a continual increase in agricultural productivity. Thus, more than ever, obtaining high yields is the main challenge for agriculture. Sustainable crop production should switch from growing plants to the cultivation of plant-microbial communities, which can reach high productivity under minimal energy and chemical investments along with minimal pressure on the environment.

Many of today's environmental problems in crop production are due to applications of chemical fertilizers that provide an imbalance of mineral nutrients. In this context, soil microorganisms with beneficial activity on plant growth and health represent an attractive alternative to conventional agriculture. In recent years, several microbial inoculants have been formulated, produced, marketed, and applied successfully by an increasing number of growers. This Special Issue provides insights into the "Frontiers in Soil Microbial Ecology and Its Role in Sustainable Agroecosystems".





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