



Microorganisms

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Special Issue Reprint

Microbial Biotechnologies and Microorganism Interactions for Sustainable Agriculture

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This Reprint compiles a curated selection of peer-reviewed articles focused on recent advances in microbial biotechnology and microorganism interactions for sustainable agriculture. It highlights the growing role of microorganisms as key drivers of environmentally responsible agricultural systems, offering innovative alternatives to conventional agrochemical practices.

The contributions included in this Reprint address a broad spectrum of topics, including the development of microbial consortia, biofertilizers, and biocontrol agents, as well as the exploration of microbial interactions that influence plant growth, soil health, and ecosystem stability. Several studies emphasize the application of omics technologies and molecular approaches to better understand the mechanisms underlying microbial functionality and their potential for agricultural innovation.

Collectively, these works demonstrate how microbial-based strategies can enhance nutrient cycling, improve crop productivity, and mitigate the environmental impact of agriculture. The integration of fundamental and applied research presented in this Reprint provides valuable insights for advancing sustainable agricultural practices and fostering the development of next-generation biotechnological solutions.

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