

Special Issue

Utilization of Microorganisms for Sustainable Agricultural Development

Message from the Guest Editors

This Special Issue delves into the critical role of microorganisms in driving sustainable agricultural practices, showcasing groundbreaking research and innovative applications harnessing the power of diverse microbial communities to enhance soil fertility, promote plant health, and optimize agricultural productivity while minimizing environmental impact. Microbes, including bacteria, fungi, and algae, are central to the sustainability of agriculture, serving as biofertilizers and biocontrol agents that offer eco-friendly alternatives to chemical inputs. The issue underscores the importance of microbial diversity in maintaining soil health and ecosystem balance, emphasizing the intricate relationships between microorganisms and plants in agricultural systems. Furthermore, this Special Issue explores novel strategies for utilizing microorganisms in bioremediation and waste management, showcasing their potential to remediate polluted environments, degrade contaminants, and promote sustainable waste recycling practices within the agricultural sector. This issue advocates for a holistic and environmentally conscious approach to agricultural development.

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