

Special Issue

Microbial Partnerships in Fruit Crops: Enhancing Yield, Quality, and Resilience

Message from the Guest Editors

Microbial interactions with fruit crops have long been recognized as pivotal to plant health and productivity and, from early studies on mycorrhizal fungi and nitrogen-fixing bacteria to recent discoveries in plant microbiomes, the role of beneficial microbes has evolved from a niche interest to a central theme in sustainable agriculture. Advances in molecular biology, genomics, and metabolomics have revealed the complexity and specificity of these partnerships, highlighting their potential to improve crop yield, enhance fruit quality, and bolster resilience against biotic and abiotic stresses. This Special Issue aims to bring together cutting-edge research and reviews that explore the multifaceted roles of microbial communities in fruit crop systems, and seeks to deepen our understanding of how microbial partnerships can be harnessed to optimize agricultural practices, reduce chemical inputs, and promote environmental sustainability. The scope includes both fundamental and applied studies across diverse fruit crops, microbial taxa, and ecological contexts.

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