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The Potential of Biological Agents in Controlling Diseases, Pests, and Improving the Growth of Forest and Fruit Trees

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Message from the Guest Editor

Due to the overuse of chemical pesticides over the past few decades, and their subsequent deleterious environmental consequences, the exploration of biological techniques for the management of tree diseases and pests is important. It is pivotal that future strategies of wood resource management incorporate the use of microbial agents and natural enemies to reduce the use of chemical protection products to mitigate emerging challenges. The microorganisms that are beneficial for tree growth and health are applied as biopesticides, microbial fertilizers, and biostimulants to control tree diseases and pests and to improve the wood yield and quality of forest products. In this Special Issue, all aspects related to the biological control of pests and diseases, integrated pest and disease management, and plant growth promotion of forest trees (including fruit trees, medicinal, and ornamental plants) will be considered. In addition, studies involving the use of microbes in soil management, phytohormones, and induced systemic resistance and stress tolerance of trees against biotic and abiotic factors in greenhouse and field experiments are welcome for submission.



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Special Issue



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