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Biological Control of Plant Diseases Caused by Pathogenic Microorganisms

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Message from the Guest Editor

Pathogenic microorganisms can cause crop diseases in various plants, leading to a decline in the quality and yield of crops. To more sustainably mitigate the impact of crop diseases on plant health and productivity, there is a need for safer and more eco-friendly strategies than chemical prevention. As an alternative, biological control has received increasing attention in pathogen management. The use of microorganisms or their metabolites to prevent plant diseases is eco-friendly and usually safe for food products. In recent years, quorum quenching based on quorum sensing has been adopted as a potential biocontrol approach for controlling plant diseases due to its relationship with pathogenic multi-antibiotic-resistant microorganisms. This Special Issue aims to collect research dealing with the biological control of plant diseases via quorum quenching, antagonistic microorganisms, or their metabolites that have relevance in phytopathology, microbiology, biochemistry, molecular biology, genetics, chemistry, or any omics-based science. Original investigations as well as concise review manuscripts from experts in the relevant research fields will be considered for publication.



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Special Issue



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Message from the Editor-in-Chief

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