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Plant Resistance against Bacterial and Fungal Pathogens: Mechanisms and Applications

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Message from the Guest Editors

Dear Colleagues,

This Special Issue delves into the intricate mechanisms and applications of plant resistance against bacterial and fungal pathogens, exploring the forefront of research in basic and agricultural science. Plants have evolved an impressive array of defense mechanisms to counteract the threats posed by destructive microbial pathogens, and understanding these mechanisms is crucial for developing sustainable and effective strategies for crop protection. The focus of this Special Issue will be a spectrum of topics, ranging from the molecular and genetic basis of plant immunity to the application of cutting-edge technologies in enhancing plant disease resistance. For instance, key insights into the signaling pathways involved in plant defense responses, the role of secondary metabolites, and the manipulation of plant–microbe interactions are well welcomed. Additionally, the practical applications of these findings in the field of agriculture, including the development of resistant crop varieties and eco-friendly disease management strategies, are well encouraged.



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Special Issue



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Message from the Editor-in-Chief

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