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Genetics of Biotic and Abiotic Stress Response in Crops

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Message from the Guest Editor

Dear Colleagues,

Biotic and abiotic stresses are the main constraints of plant growth and production, and will become more prevalent in the coming decades due to global climate change. Plant responses to these stresses are complex, involving multiple mechanisms at cellular, molecular, and physiological levels with contributions from genetic, environment, and their interactions. Findings from genetic studies help to pinpoint potential manipulation targets for genetic engineering and classical breeding for the development of resistant cultivars. The goals of this Special Issue are a) to develop better knowledge of the classical, molecular and functional mechanisms of resistance/tolerance to biotic and abiotic stresses in order to develop more effective strategies for improving crop productivity under stress conditions and b) to explore the biochemical/physiological/genetic strategies adopted by plants that assist them in stress resistance/adaptation using a variety of molecular and functional approaches, including genomic architecture. In this Special Issue, we invite scientists from various fields of research to report their findings on the genetics of biotic and abiotic stresses.



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Special Issue



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Message from the Editor-in-Chief

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