



Plant Responses to Biotic and Abiotic Stresses: Crosstalk between Biochemistry and Ecophysiology

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Message from the Guest Editors

Dear Colleagues,

In general, biotic and abiotic stresses often cause a series of morphological, physiological, biochemical, and molecular changes that unfavorably affect plant growth and productivity and cause interference in stress tolerance and adaptation. Biotic and abiotic stresses such as drought, salinity, extreme temperatures (cold and heat), and oxidative stress are often interrelated; these conditions, singularly or in combination, induce cellular damage.

Plant responses to different stresses are highly complex and involve changes at the physiological, biochemical, transcriptome, and cellular levels. Understanding the organism-coordinated responses involves a fine description of the mechanisms occurring at the cellular and molecular level. The current Special Issue of *Plants* aims to analyze, from a multi-perspective approach (ranging from gas exchange, metabolomics, proteomics, isotopic and genomics, etc.), drivers (e.g., trait selection, phenotypic plasticity) and specific strategies used by the plants at physiological and molecular levels for their better adaptations to stressful growth conditions.





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Message from the Editor-in-Chief

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