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Plant Responses to Biotic and Abiotic Stresses: From Cellular to Morphological Changes

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Message from the Guest Editor

During their lifecycle, plants have to cope with many abiotic and biotic stresses, each affecting their development or growth. Among these stresses, biotic stress (caused by bacteria, viruses, fungi, nematodes, insects…) and abiotic stress (such as flooding, cold, heat, salinity, or drought) can be distinguished. However, being sessile in nature, plants cannot escape from these stress, and instead adapt transcriptional, molecular, physiological, and morphological changes within their system to overcome the adverse conditions.

Therefore, understanding plant responses to these stresses implies a deep description of the mechanisms that operate at the physiological and molecular levels, which include complex transduction pathways, from signal perception to physiological responses. For this research topic, we welcome reviews, perspective, original research, opinions, and methods to underline the latest exciting progress on the understanding of systems biology and the molecular, physiological, and biochemical responses of plants to abiotic and biotic stresses.

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Message from the Editor-in-Chief

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