

Special Issue

Alleviation of Crop Stress Response by Application of Exogenous Substances

Message from the Guest Editors

In recent years, climate change, characterized frequently by erratic climate events, has become a stress factor for sustainable crop production. Facing these constraints and for crop adaptation, the exogenous application of substances such as biostimulants, phytohormones, growth regulators, amino acids, and osmoprotectants has gained increased interest from growers, particularly for those who produce perennial crops; however, successful applications have resulted in controversial experiences from an agronomical, physiological, biochemical, chemical, or molecular focus. The introduction of these substances will represent the complementation of agronomical management for crops and requires comprehensive studies focused on management, application, quality, utilization, and collateral responses to plant abiotic and biotic stress, as well as their interaction with the environment. In the context of this Special Issue, the alleviation of the crop stress response by the application of exogenous compounds, alongside the challenge of improving the productivity of major crops under the climate change scenario, will become the greatest challenge to agronomy in the future.

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