



Abiotic Stress Tolerance in Plants: The Regulation of Reactive Oxygen Species and Plant Hormones

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Message from the Guest Editor

Abiotic stresses can have negative impacts on crop yield worldwide due to the inhibition of plant growth and development. These stresses, such as low or high temperature, high salinity, heavy metals, and high CO₂ concentration, are already threatening to ensure sustainable agriculture in ecosystems. Reactive oxygen species (ROS) can be induced by oxidative damage to DNA, RNA, molecules, and lipid peroxidation, and can lead to cell destruction in plants. Furthermore, plant hormones, such as abscisic acid, auxin, brassinosteroid, gibberellin, cytokinin, ethylene, salicylic acid, jasmonate, and strigolactones, are known to play crucial roles in the stress responses of plant.

Various molecular and computational approaches are used to find genomic clues associated with stress tolerance in the regulation of ROS and hormones. This Special Issue of the *International Journal of Molecular Sciences* journal, titled “Abiotic Stress Tolerance in Plants: The Regulation of Reactive Oxygen Species and Plant Hormones”, aims to summarize these views.





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Message from the Editor-in-Chief

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