



Salinity Tolerance in Plants

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Message from the Guest Editor

Salinity stress is one of the major abiotic stresses that leads to significant losses in agriculture, especially in arid and semi-arid climates. Thus, it is critical to know the mechanisms of salinity tolerance so as to obtain plants that are more tolerant to this abiotic stress, necessary for more sustainable and more productive agriculture under a scenario of climate change.

Salt stress is first perceived by the root system impairing plant growth in the short term by inducing osmotic stress. In the long term, salinity-induced ion toxicity due to a nutrient imbalance in the cytosol. In addition, salt stress is also manifested as an oxidative stress at the subcellular level, mediated by ROS. All these responses to salinity result in deleterious effects on plants. Plants tolerant to NaCl implement a series of adaptations to acclimate to salinity, including morphological, physiological, biochemical and molecular changes.

The aim and scope of this Special Issue is to encourage the publication of review and/or experimental research dealing with physiological, biochemical and molecular aspects related to salt-tolerance mechanisms in plants, including in vitro culture conditions.





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Message from the Editor-in-Chief

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