Special Issue

Salinity Tolerance in Plants

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.

Guest Editor

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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