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Salinity Stress Signaling in Plants: OMICs Perspective

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Deadline for manuscript submissions:
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Message from the Guest Editor

The increasing human population and abrupt changes in the global climate have imposed significant threats to plant production, global food security, and sustainability. Plants exposed to salinity have to devote precious developmental energies to counteract oxidative, ionic, and osmotic stresses by implementing signaling cascades of enzyme synthesis, phytohormonal signaling and crosstalk, gene expression patterns, and metabolite exudations. Despite an unprecedented amount of scientific work on salinity stress in plants, there is still a lot to be understood at the biochemical, molecular, and cellular signaling levels. In the current issue, we will try to understand and answer critical questions about how ionic homeostasis is translocated by plant cells, genetic determinants, and proteins, how to rearrange the microbiome associated with stressed plants to achieve enhanced plant stress tolerance, how complex interactions can be explained and understood by utilizing advanced multi-omics approaches (genomics, transcriptomics, proteomics, and metabolomics) to map signaling pathways, and how keystone microbial players associated with plants can improve plant stress tolerance.

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