Special Issue

Salinity Stress Signaling in Plants: OMICs Perspective

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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Deadline for manuscript submissions

closed (30 July 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/98020

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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