



Plant Membrane Proteins and Solutes in Response to Stress

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Plant cells are full of inorganic ions and low-molecular-mass organic molecules, and expend considerable amounts of energy and resources in incorporating or synthesizing these solutes. The transport of such solutes across cell membranes is of the utmost importance to re-establish and maintain ion and cellular homeostasis in response to biotic and abiotic stress. Additionally, plant-protective molecules like secondary metabolites may be produced in plant tissues in response to extreme climate conditions or after pathogen infection. Furthermore, encouraging reports have shown that the exogenous application of protective compounds like glycine betaine, kaolin based particle film or silicon (Si) may promote stress tolerance in several crops.

This Special Issue aims to attract contributions on breakthrough discoveries concerning plant solute homeostasis systems in response to stress and stress mitigation approaches. This deepened knowledge will pave the way for the improvement of plant productivity through the optimization of agricultural practices or through biotechnological approaches.

Prof. Dr. Hernâni Gerós
Guest Editor





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Message from the Editor-in-Chief

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