Special Issue

Plant Membrane Proteins and Solutes in Response to Stress

Message from the Guest Editor

Plant cells are full of inorga□nic 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.

Guest Editor

Dr. Hernâni Gerós

Department of Biology, Universidade do Minho, 4710-057 Braga, Portugal

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Molecules
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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