



Plant-Water Relations in Responses to Environmental Stresses

Guest Editors:

Dr. Monica Calvo Polanco

Spanish-Portuguese Institute of
Agricultural Research (CIALE),
University of Salamanca,
Salamanca, Spain

Prof. Dr. Janusz Zwiazek

Department of Renewable
Resources, University of Alberta,
442 Earth Sciences Bldg.,
Edmonton, AB T6G 2E3, Canada

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Message from the Guest Editors

Dear Colleagues,

The ability of plants to maintain a fine water balance when facing different environmental stresses is critical to ensuring their survival, growth, and productivity. Maintenance of the water soil–plant–atmosphere continuum involves well-orchestrated multi-level plant responses ranging from molecules to a whole plant. Stomatal regulation of water transport and the regulation of tissue hydraulic conductivity by aquaporins have been widely studied as the key factors involved in maintaining plant water balance under stress. However, many aspects of water relations in plants exposed to environmental stresses remain poorly understood. This Special Issue aims at covering different aspects of water transport in plants under stress, such as the control of transpiration, root water uptake and xylem transport, regulation of cell turgor, aquaporin function, root architecture, regulation of hormonal pathways, and stress signaling molecules.

Dr. Monica Calvo Polanco

Prof. Dr. Janusz Zwiazek

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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MDPI, Grosspeteranlage 5
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