Special Issue

Omics Methods for Probing the Abiotic Stress Responses in Plants

Message from the Guest Editors

In a scenario of global climate change the agricultural sector will have to face great challenges. Agriculture production could be adversely affected by rising temperatures, changes in precipitations and variations in the intensity and frequency of extreme climatic events such as droughts and floods. The metabolic network of plants must be reconfigured under stress conditions to allow both the maintenance of metabolic homeostasis and the production of compounds to cope against the stress. The complexity of the genetic and molecular processes implicated in defense responses against these stresses need to be investigated more extensively. Information obtained through 'omics' experiments will enable qualitative and quantitative monitoring of the abundance of various biological molecules in a high-throughput manner. Understanding of plants resilience mechanisms is of fundamental meaning for the development of resistant crop varieties and more productive and sustainable agriculture.

Guest Editors

Dr. Víctor Manuel Rodríguez

Misión Biológica de Galicia (CSIC), Carballeira 8, 36143 Salcedo-Pontevedra, Spain

Dr. Pablo Velasco

Misión Biológica de Galicia (CSIC), Carballeira 8, 36143 Salcedo-Pontevedra, Spain

Deadline for manuscript submissions

closed (20 November 2022)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/118493

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston
Gulbali Centre for Agriculture, Water and Environment Research, Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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