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Plant Physiological Responses to Climate Change

Guest Editors:

Dr. Inmaculada Pascual

Department of Environmental
Biology, University of Navarra,
31008 Pamplona, Spain

Dr. Fermin Morales

Investigador Científico, Instituto
de Agrobiotecnología, CSIC-
Gobierno de Navarra, Mutilva,
Spain

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Message from the Guest Editors

According to the fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), the anthropogenic greenhouse gas emissions have increased since the pre-industrial era. Consequently, warming of the climate system is unequivocal. Surface temperature is projected to rise over the 21st century, and the increase in the frequency of extreme temperature events, such as heat waves, is very likely. Projected changes in rainfall patterns may involve a decrease in soil water availability in mid-latitude and subtropical dry regions, as well as increases in soil salinity. Within this context, the knowledge of the physiological responses of plants to multiple changing stress factors associated with climate change will help to the development of successful adaptation strategies to mitigate the impact of future environmental conditions on crops. The current special issue aims to analyze, from a multidisciplinary approach, the impact of abiotic stresses associated with Climate Change on plant performance. Contributions about adaptation strategies to climate change in agricultural crops and forests (from leaf to plant and canopy organization levels) are also welcome.



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Special Issue



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Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

Message from the Editor-in-Chief

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Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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