Special Issue

Plant Physiological Responses to Climate Change

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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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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