Special Issue

Mechanisms of Crop Growth and Development under Adverse Conditions

Message from the Guest Editors

In their natural habitat, adverse and potentially stress-generating conditions are a rule, not an exception, for plant survival. Over millions of years, evolutionary pressures have favored the selection of effective and efficient mechanisms to respond against these potentially stressful conditions. However, recent, and very drastic global climate changes, may represent an over-challenge that is difficult to naturally overcome. This problem arises especially considering the small fringe of cultivated species of economic value and the large knowledge gap that still exists regarding the mechanisms that underlie the regulation of their growth and development under such adverse conditions, particularly considering the species of importance in developing countries. Therefore, compiling knowledge regarding the most effective mechanisms triggered by plants in adverse conditions, especially those related to global climate change and those arising from human activity, is of paramount importance at this time.

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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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