Special Issue

Morphological, Physiological, Metabolic, and Genetic Aspects of Eustress in Horticultural Crops

Message from the Guest Editor

All plant species are subjected to abiotic stresses whose intensity has increased, due to climate change. Plants respond to stress with various morphological, physiological, metabolic, and genetic changes. Leafy vegetables are particularly susceptible to abiotic stresses. Many studies have highlighted the influence of the stress level on the productive and qualitative performance of plants. For each plant species, tolerant or sensitive one, there is a stress level for which the plant is at its utmost defense, and synthesizes and accumulates high levels of secondary metabolites and molecules with antioxidant properties, without a drastic reduction in growth. This response is called positive stress or eustress. This Special Issue aims to obtain a multidisciplinary view of eustress, improve knowledge of the adaptation of different horticultural crops to stress, and enhance sustainable agronomic choices that preserve the quality and productivity of crops. Potential topics include, but are not limited to: metabolomics analyses
genetic analyses
morphologic analyses
productivity of leafy vegetables
quality of leafy vegetables
osmolytes
defense mechanisms

Guest Editor

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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.

Editor-in-Chief

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