Special Issue

Stress Physiology and Molecular Biology of Vegetable Crops

Message from the Guest Editors

Given the increasingly unpredictable and extreme environmental conditions expected for the next few years, vegetable crops (the primary food production base) will face a challenging scenario. Stress physiology in vegetable crops under climate change involves a complex interplay of environmental factors, physiological responses, and molecular mechanisms. At molecular levels, stress responses in vegetable crops involve complex signalling pathways and gene regulatory networks. Key regulators, such as transcription factors, play pivotal roles in activating stress-responsive genes involved in osmotic adjustment, detoxification, and antioxidant defence, coupled with a physiological response. Additional knowledge surrounding underlying mechanisms associated with physiological responses to abiotic and biotic stresses in vegetal crops is pivotal to developing new plant materials or technologies that are applied to mitigate negative consequences in their fitting and yield. Therefore, this Special Issue welcomes studies that span physiological and molecular mechanisms related to vegetable crop production in a stressful environment.

Guest Editors

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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

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