

Special Issue

Physiology and Innovation in Fruit Crops: Biostimulants, Stress Responses, and Postharvest Technologies

Message from the Guest Editors

Fruit crops, many of them emblematic of Mediterranean and Atlantic regions, are increasingly challenged by the impacts of climate change, including rising average temperatures, reduced precipitation, and the growing frequency and intensity of water and heat stress episodes. These factors compromise not only plant physiology and yield but also the sensory and nutritional quality of fruits, while further complicating their postharvest preservation. In this context, the present Special Issue aims to bring together scientific contributions exploring innovative strategies to enhance the resilience of fruit crops under adverse environmental conditions. Particular emphasis will be placed on studies addressing the use of biostimulants and their role in modulating physiological mechanisms of stress tolerance, such as stomatal regulation, antioxidant metabolism, and osmotic adjustment. Additionally, this Issue welcomes research on innovative postharvest preservation strategies, including the application of edible coatings, smart packaging, and natural preservatives, with the goal of extending fruit shelf life while preserving their sensory and nutritional attributes.

Guest Editors

Dr. Sílvia Martins Afonso

Dr. Ivo Vaz de Oliveira

Dr. Berta Gonçalves

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Plants
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
plants@mdpi.com

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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

Prof. Dr. Dilantha Fernando
Department of Plant Science, University of Manitoba, Winnipeg, MB
R3T 2N2, Canada

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