

Special Issue

Physiological Responses of Tree Fruits to Environmental and Management Factors II

Message from the Guest Editor

Climatic changes and the sustainability of management practices are two major priorities for tree fruit scientists and growers. In the last few decades, plant molecular techniques have represented, and continue to represent, a very powerful tool. Trees respond to external stimuli by adjusting several physiological processes. Hence, to understand why trees grow and produce differently under various environmental and management regimes, we need to acquire a full comprehension of these complex mechanisms and processes and their modulation in response to external factors. Today, our understanding of whole-tree functioning as the integration of multiple physiological processes is suffering from, on one side, a knowledge gap with respect to advanced information on basic molecular mechanisms, and on the other side, the potential application of smart technologies for precise orchard management. This Special Issue seeks to stimulate and collect these kinds of studies, keeping in mind that whole-tree fruit physiology must represent the basis for sustainable fruit production in a changing environment.

Guest Editor

Dr. Riccardo Lo Bianco

Department of Agricultural, Food and Forest Sciences, University of Palermo Viale delle Scienze, Edificio 4 ingresso H, 90128 Palermo, Italy

Deadline for manuscript submissions

closed (30 January 2023)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 6.5
Indexed in PubMed



mdpi.com/si/92416

Plants

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

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 6.5
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)



About the Journal

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, and 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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)