



Breeding for Fruit Quality in the Climate Changes Era

Guest Editors:

Dr. Jacopo Diamanti

Consorzio Italiano Vivaisti
C.I.V., SS Romea 116, 44022,
Comacchio, FE, Italy

Prof. Dr. Bruno Mezzetti

Department of Agricultural, Food
and Environmental Sciences,
Università Politecnica delle
Marche, Via Breccia Bianche 10,
60131 Ancona, Italy

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

The fruit industry strives to create products that better suit the day-to-day lifestyle needs of consumers. Fruit breeding allows the needs of this new generation to be fulfilled in a way that benefits both growers and consumers. However, while balancing these demands for produce, breeders are also facing the most important challenge of our time: climate change. Fruit quality has always been the most important determiner of success for a fruit cultivar, considering agronomic data, nutritional and edonistic parameters, and post-harvest quality. Fruit breeding has always aimed to find a balance amongst these aspects, but the challenge of global warming is emerging as a key priority to consider when breeding fruit. New cultivars must be evaluated for their pest and drought resistance, secondary biocompounds and phenolics content, post-harvest and shelf-life adaptation, and consumer appreciation. Breeders can fulfill these competing requirements to attain the highest standards for their produce by using new genetic tools to expedite the selection process; however, it must be kept in mind that field work remains a vital part of the growing process.





plants



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science,
University of Manitoba, Winnipeg,
MB R3T 2N2, Canada

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.

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 (*Plant Science*)

Contact Us

Plants Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/plants
plants@mdpi.com
[X@Plants_MDPI](https://twitter.com/Plants_MDPI)