



plants



an Open Access Journal by MDPI

Secondary Metabolism and Physiological Regulation of Postharvest Fruits and Vegetables

Guest Editors:

Dr. Yuge Guan

School of Food and Health,
Zhejiang Agricultural and
Forestry University, Hangzhou
311300, China

Dr. Yaru Ji

School of Food Science and
Bioengineering, Xihua University,
Chengdu 610039, China

Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editors

Postharvest fruits and vegetables are susceptible to suffering various abiotic stresses during transportation. When encountering stress, it will cause series of changes in metabolic pathways and subsequently lead to various physiological and biochemical changes. Among them, secondary metabolism plays an important role in the process of resisting abiotic stresses. Therefore, regulating secondary metabolism is one of the most useful areas of study in terms of postharvest quality and storage periods of postharvest fruits and vegetables.

The objective of this Special Issue is to highlight different innovative findings regarding postharvest fruit and vegetable preservation, food nutrition control, changes in the physiological metabolism of fruits and vegetables and regulatory mechanisms of secondary metabolism. On this basis, the changes in secondary metabolite modification genes, such as glycosyltransferase, which can regulate the homeostasis of small molecules after suffering from stress, can be analyzed. We hope this Special Issue will provide new perspectives for an improved understanding of the metabolic physiological regulation of postharvest fruits and vegetables.



mdpi.com/si/187186

Special Issue



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)