

Special Issue

Advances in Fruit Tree Breeding, Pathogen Management and Chemical Profiling for Crop Improvement

Message from the Guest Editors

The Special Issue of *Plants*, "**Advances in Fruit Tree Breeding, Pathogen Management, and Chemical Profiling for Crop Improvement**," explores

interdisciplinary research aimed at enhancing fruit crop productivity and sustainability. It highlights innovative breeding techniques, advanced pathogen management strategies, and chemical profiling methods to improve fruit quality and yield. This issue focuses on integrating genomic tools, marker-assisted selection, and biotechnological approaches to develop resilient cultivars with improved resistance to biotic and abiotic stresses. In parallel, it presents novel, environmentally friendly disease management strategies to safeguard fruit production. Additionally, it delves into the chemical profiling of fruit trees, using metabolomics and analytical techniques to uncover biochemical pathways influencing flavor, aroma, and nutrition. By bridging traditional horticulture with state-of-the-art research, this collection provides valuable insights for advancing fruit cultivation and securing global food production.

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Deadline for manuscript submissions

30 August 2026



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/236776

Plants
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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, 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.

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