

Special Issue

Genetic and Metabolic Analysis to Improve Fruit Quality

Message from the Guest Editor

This Special Issue explores the field of plant genetics and metabolic analysis to improve fruit quality and understand how these factors affect fruit phenotype, metabolism, flavor and postharvest performance. Research is interested in different aspects of genomics and the biochemical characterization of genetic diversity that will help to elucidate the genetics of important fruit quality traits. It aims to apply this information to develop tools, as high-quality markers for marker-assisted selection and transcriptomic and metabolic analysis (including metabolomics), to improve fruit breeding efficiency, also allowing technological advances in fruit trait determination. The development and optimization of methodologies for the quantification of phytochemical, antioxidant and biologically active compounds of fruits and research of the effect of those compounds in biological systems will also be considered. Metabolic pathways of fruit volatiles and regulation of flavor quality, as well as the metabolic diversity of plant fruits and their usage as phytochemical resources with roles in human nutrition and health, will be taken into account.

Guest Editor

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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.

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