

Special Issue

Molecular Breeding for Fruit Quality

Message from the Guest Editors

Fruits are an essential part of human diet, providing significant amounts of vitamins, antioxidants, minerals, fibers, and numerous health benefit compounds. Traditionally, most breeding efforts have been devoted to increasing fruit size and yield, disregarding other quality parameters, such as sensory attributes or nutritional content. Current production practices favoring early fruit harvesting and some postharvest strategies can also contribute to reducing overall fruit quality. Novel approaches are needed to deal with the future challenges of fruit production, improving fruit organoleptic properties and nutritional value, and also to be able to accommodate fruit industry with consumer preferences. Modern breeding techniques such as genetic engineering, gene edition or marker-assisted selection will be especially useful to achieve this goal. In this Special Issue, articles (original research papers, perspectives, hypotheses, opinions, reviews, modeling approaches and methods) that focus on molecular fruit breeding at all levels, including physiology, biochemistry, genetics, genomics, proteomics, and metabolomics approaches, are welcome.

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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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