Special Issue

Molecular Biology for Enhancing Nutritional Quality in Tomato Fruit

Message from the Guest Editor

Vegetables are essential components of the human diet, particularly because they benefit human health by providing vitamins, minerals, and fiber. However, the current levels of phytonutrients in vegetable crops are not sufficient to meet daily requirements. Moreover, as much as 30% of the harvest may be lost due to the short shelf life of the produce. A better understanding of the basic metabolism and key processes involved is needed to enable scientists to develop strategies for improving specific quality attributes in vegetables such as nutritional quality and vine and shelf life. Tomato fruit lines can be modified to enable the continuation of anabolic processes late into ripening and to produce higher amounts of the cancer-preventing antioxidants such as lycopene, amino acids such as glutamine, asparagine, lysine, and arginine, and other micronutrients such as choline, which is an important nutrient with great potential for brain development. This Special Issue will focus on original papers covering areas of "Molecular Biology for Enhancing Nutritional Quality in Tomato Fruit" that present advances in those fields.

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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