Special Issue

Development and Characterization of High-Quality Crop Genotypes

Message from the Guest Editors

Consumers are increasingly searching for high-quality horticultural crops that can be introduced into the human diet for bioactive compounds, vitamins, and minerals. Thus, breeding efforts aimed at developing novel genotypes with high nutritional value may have direct impacts on human health. Using a wide range of plant modification strategies, including conventional breeding and genetic engineering, more nutritious crop varieties with higher amounts of antioxidants and nutritional compounds can be generated. The development of novel genomic and genetic resources, including wild crop relatives, could promote the achievement of this objective. Moreover, many genes and pathways important for nutrient accumulation in the edible parts of crop plants have been described, and their potential uses for biotechnological applications have been demonstrated. We are interested in manuscripts demonstrating how different strategies can be applied to increase the nutritional quality of food crops, ranging from genetic engineering to new and existing plant breeding technologies.

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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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