

Special Issue

Genetic Diversity, Germplasm Resources and Biotechnology Application for Sustained Fruit Improvement

Message from the Guest Editors

Germplasm resources and the genetic diversity contained therein are the material basis for the selection and breeding of good plant cultivars. Fruit tree germplasm resources refer to plants with certain genetic material, which are valuable for fruit tree production and breeding, including wild species, closely related wild species, varieties, cultivated species, semi cultivated species, cultivars, strains and individual plants, etc., also including rootstocks for grafting and virus indicator plants for fruit trees. The abundant germplasm resources and genetic diversity provide the potential to continuously breed excellent new cultivars with high yield, good quality, multi-resistance, and adaptability to processing or mechanized production, so that fruit plants can better meet the needs of human development. Fruit trees are mostly perennial crops with a long juvenile phase, complex genetic background (highly heterozygous), and with a conventional breeding cycle which is long, workload which is large, and efficiency which is low.

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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, 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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