Special Issue

Conventional vs. Modern Techniques in Horticultural Crop Breeding

Message from the Guest Editors

Crop breeding is crucial in agriculture as it helps us to obtain new varieties with desirable traits such as yield, disease resistance, and tolerance to environmental conditions. Through breeding, crop productivity, sustainability, and adaptation, we can ensure food security and enhance support for the ever-growing global population's needs. Traditionally, the major methods of breeding have been crossing and selection for new superior genotype combinations that result in hybrid varieties or synthetic varieties. In recent years, research and development on crop molecular genetics and functional genomics has advanced rapidly all over the world. We aim to record the most recent breeding works on fruit, vegetable, and ornamental production. Scientific research data on new species or varieties of fruits, vegetables, or flowers are welcome. Contributions to this SI may focus on, but are not limited to, four major topics: (1) breeding strategies, (2) genetic improvement at the molecular level, (3) valuable and desirable traits, and (4) phenotyping.

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