Special Issue

Natural and Artificial Genetic Variability for Advancing in Fruit Plant Breeding

Message from the Guest Editor

Genetic variability can also artificially be increased in order to supplement or complement sources of natural origin for plant breeding. Physical or chemical mutagens have been used for mutant obtention, but also in reverse genetics for functional genomic purposes as was the case of tilling collections during the 1990s. From 2013, CRISPR-CAS9 technology has revolutionized mutagenesis for its precision and localization. This Special Issue is focused on the use of genetic variability in plants in order to answer specific breeding goals for fruit plant improvement. We welcome novel researches and reviews covering all related topics with the application of plant biodiversity in fruit plant species as with GWAS, markers-assisted selection, allelic variations for functional studies, genome editing, germoplasm collection characterization, genomic selection, and fine mapping. We also accept innovative works about melon and tomato as those species are models for ripening process that can be interesting for fruits crops as well.

Guest Editor

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