Special Issue

DNA-Informed Breeding in Fruit and Nut Crops

Message from the Guest Editors

Advances in molecular genetic techniques and generation of whole genome reference sequences in fruit and nut crops have laid the foundation for enabling DNA-informed breeding. A chasm was recognized between genomic research and practical application of DNA information in breeding programs. Some breeders have successfully conducted DNA-informed breeding in their programs. In this Special Issue, we invite review articles that describe opportunities, resources, advances, gaps, and needs in the use of DNA information in supporting breeding decisions in a particular fruit or nut crop, crop group, or crop region. A specific breeding activity can be emphasized (e.g., pre-breeding, elite selection advancement). Authors are encouraged to highlight innovations and idiosyncrasies in their breeding situation. We also invite experimental articles that focus on your recent research to address an identified need. Both article categories must answer the question: What has and could be done to support breeding decisions with DNA-based genetic information toward delivering new and improved cultivars.

Guest Editors

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Deadline for manuscript submissions

closed (10 December 2022)

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Editor-in-Chief

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