

Special Issue

New Advances in Vegetable Breeding, Genetics and Genomics

Message from the Guest Editors

Advances in next generation sequencing technologies has facilitated the development of genomic tools for genetic studies in vegetable crops. These tools include reference genomes, transcriptome assemblies, genetic linkage maps, QTL mapping, genome-wide association studies, allele mining, gene expression, and marker–trait associations for marker-assisted selection.

Furthermore, genomic selection has gained momentum as a tool for predicting phenotypic performance in plant breeding populations and accelerating the development of new vegetable cultivars. Collectively, application of these tools in vegetable improvement has the potential to increase the rate of genetic gain by shortening of the selection cycle, thus reducing the cost of plant breeding. In this special issue, we invite submissions of research articles, reviews, short notes, and opinion articles related to the discovery and application of genomic tools for vegetable crop improvement. This Special Issue will also accept submissions related to advances in high-throughput genotyping system, germplasm characterization, and inheritance studies of economically important traits in vegetable crops.

Guest Editors

Dr. Geoffrey Meru
Dr. Tong Geon Lee
Dr. Sandra Branham

Deadline for manuscript submissions

closed (15 December 2022)



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Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
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