Special Issue

Vegetable Genomics and Breeding Research

Message from the Guest Editors

With the population on the rise and increasing demands for food, there is a pressing need to enhance vegetable production, quality, and resilience to environmental challenges. Genomics and breeding research have emerged as powerful tools for achieving these objectives.

This Special Issue aims to compile cutting-edge research in vegetable genomics and breeding, focusing on advances in understanding the genetic architecture of key traits, genomic-assisted breeding methodologies, and the development of superior vegetable cultivars. Topics include, but are not limited to the following:

Genome sequencing and the assembly of vegetable crops.

Marker-assisted selection (MAS) and genomic selection (GS) for the accelerated breeding of improved varieties.

Integration of genomic data with traditional breeding methods for trait enhancement.

Applications of genome editing technologies (e.g., CRISPR/Cas9) for targeted trait improvement in vegetables.

The genetic basis of domestication and evolution in vegetables.

Speed breeding technology.

Guest Editors

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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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