

Special Issue

Precision Breeding in Vegetables: The Mining and Utilization of Key Genes Regulating Important Agronomic Traits

Message from the Guest Editors

Vegetables are indispensable components of global food systems, supplying essential nutrients and contributing significantly to human health and agricultural economies. However, traditional breeding approaches often struggle to efficiently improve complex agronomic traits, owing to the intricate genetic backgrounds and considerable heterogeneity in population structure characteristic of many vegetable species. Recent advances in genomics and biotechnology have catalyzed a shift toward precision breeding, allowing researchers to unravel the genetic architecture of key traits with unprecedented resolution.

This Special Issue aims to present cutting-edge strategies and technological innovations that are transforming vegetable breeding. It encompasses topics ranging from the development of populations for high-resolution genetic mapping to the deployment of gene editing tools for precise trait enhancement. We also welcome studies that deepen our understanding of vegetable biology or provide genetic resources and molecular tools conducive to designing future crops with improved yield, quality, and resilience to changing environmental conditions.

Guest Editors

Dr. Jia Shen
Dr. Xiaoguang Sheng
Dr. Xinyi Wu

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Horticulturae
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
horticulturae@mdpi.com

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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
Department of Biological and Environmental Sciences and
Technologies (DiSTeBA), Salento University, 73100 Lecce, Italy

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