

Special Issue

Plant Biotechnology and Genetic Diversity for Horticultural Crop Improvement

Message from the Guest Editors

For millennia, horticultural crops have been essential to human civilization, providing food, medicinal compounds, and industrial raw materials. However, their vast genetic diversity presents challenges for effective conservation and utilization. This Special Issue aims to present the latest advances in innovative approaches for the identification, characterization, and strategic use of horticultural germplasm from wild habitats and gene banks. It highlights novel biotechnological tools and molecular conservation strategies to support sustainable solutions for global agriculture. We welcome original research and review articles on molecular and biotechnological approaches to improving crop resilience, yield, and quality. Topics include, but are not limited to: - Advanced multi-OMICS platforms (genomics, transcriptomics, proteomics, and metabolomics); - Cutting-edge laboratory technologies in plant breeding; - Molecular mechanisms underlying agronomic traits in crops; - Horticultural germplasm utilization; - Molecular conservation strategies for horticultural crops; - Identification and selection of elite genotypes of economic importance.

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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