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Advancing Soybean Improvement: Multi-Omics Strategies, Cutting-Edge Techniques and Bioinformatics Innovations

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Message from the Guest Editor

This Special Issue focuses on the application of multi-omics approaches and bioinformatics tools in soybean research with the ultimate goal of enhancing soybean improvement efforts. Soybean is one of the most important legume crops, providing a significant source of protein and oil for human and animal consumption. However, soybean production faces numerous challenges, including biotic and abiotic stresses, which can significantly impact yield and quality.

This Special Issue aims to highlight the latest advances in multi-omics approaches, including genomics, transcriptomics, proteomics, and metabolomics, and their integration with bioinformatics tools in soybean research. The Special Issue will cover a wide range of topics, including, but not limited to, the identification and functional characterization of genes and pathways associated with important agronomic traits; understanding the molecular mechanisms underlying soybean responses to biotic and abiotic stresses; the exploration of soybean genetic diversity and population genomics; and the utilization of bioinformatics tools for data integration, analysis, and visualization in soybean research.



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Special Issue



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Message from the Editor-in-Chief

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