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Plant Genetic Diversity and Omics Research

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Message from the Guest Editors

Plant genetic diversity plays an important role in maintaining plant ecosystem balance, ensuring the ecological security of forests, and promoting the development of the ecological economy.

Omics research is one such favorable technique often employed to study plant diversity. Through the analysis of a large number of biological data, one can study the overall characteristics of plant tissues or individuals, the interaction between them, and the biological mechanism implicated in the formation of certain traits.

This Special Issue will thus be subdivided into contributions focused on the role of omics, including genomics, transcriptomics, proteomics, metabolomics and phenomics, in the identification of key metabolic pathways, vital molecular mechanisms, and causative genes, proteins, metabolites, etc.

Finally, we will give attention to the multi-omics integration analysis strategy; this can efficiently identify molecular patterns and genetic interactions, accurately construct the interrelationships and regulatory networks among various biomolecules, study complicated problems from both cause-and-effect levels, and verify their relevance.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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