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Genetics and Genomics of Rice

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Message from the Guest Editors

Rice is an excellent model species in plant biology, especially for studies on monocotyledonous plants, because of its small genome size and completed genome sequence, in addition to the efficient genetic transformation technology and vast genetic resources that have been developed. The development and application of biotechnologies such as genome assembly, germplasm characterization, transformation and genome editing have greatly facilitated genetic and genomic analyses in rice. Genomes have been constructed for hundreds of rice accessions, and genetic variation and diversity have been analyzed among thousands of varieties. A large number of QTLs/genes for important agricultural traits have been identified and their functions have been mined.

This Special Issue aims to provide a forum for presenting the most recent advances in genetic and genomic research in rice. We seek original research articles and reviews covering all related topics, including genome assembly, germplasm resource mining, genetic diversity analysis, quantitative trait loci (QTL) mapping, map-based cloning, functional marker-assisted selection, etc., in the context of genetic and genomic research in rice.



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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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