

Special Issue

Research on Genetics and Breeding of Rice

Message from the Guest Editor

Rice (*Oryza sativa* L.) is a crop of global importance because it provides sustenance to more than half of the world population. Since the global population is expected to reach 9 billion by 2050, increased rice production will have a significantly positive impact on global food security. However, current rice breeding cannot keep up with the requirements of the situation. In order to achieve a further breakthrough in yield, abiotic/biotic stress resistance, quality, efficient planting management, environmental adaptation, etc., it is necessary to devise novel approaches and genetic resources to exploit rice germplasm, find and utilize the key “Genetic-Bricks” related to advantage traits construction, and to understand the molecular basis of rice improvement.

The Special Issue welcomes the following topics: novel approaches of germplasm utilization, application of next generation sequencing for rice improvement, mining of key genetic loci and biochemical functional elements, development of ecological varieties and crop resources, genetic and molecular basis of rice production improvement traits, and new breeding technologies.

Guest Editor

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving 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. Why not consider *Genes* for your next genetics paper?

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