



genes



an Open Access Journal by MDPI

Breeding and Genetics of Rice

Guest Editor:

Dr. Changhui Sun

State Key Laboratory of Crop
Gene Exploration and Utilization
in Southwest China, Rice
Research Institute, Sichuan
Agricultural University, Chengdu
611130, China

Deadline for manuscript
submissions:

closed (20 January 2024)

Message from the Guest Editor

Rice feeds more than half of the world's population. There have been two major yield breakthroughs in rice breeding in history: the Green Revolution in the 1960s and hybrid technology in the 1970s. Since then, there has been no major breakthrough in rice yields. With the advancement of molecular biology research and the rapid development of biotechnology, modern biotechnology offers another possibility of breakthroughs in rice yield. The priority topics of this issue are the characterization and application of useful traits' genes or QLTs, such as yield potential and quality improvement, stress resistance, heading date, and so on. Creating new rice materials with high yield, high quality, multiple resistance, and wide adaptation using transgenic or gene editing techniques and studying these materials at the phenotypic, physiological, molecular, and genetic levels are welcomed. On the other hand, with the rapid development of the rice genome field, the analysis and application of genomics-based superior allelic variants are also welcomed.



mdpi.com/si/158999

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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.

Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics and Heredity*) / CiteScore - Q2 (*Genetics (clinical)*)

Contact Us

Genes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)