

Special Issue

Breakthroughs and Prospects of Rice Breeding

Message from the Guest Editors

Rice (*Oryza sativa*) provides a staple food source for more than half the world population. Although modern genome technology, biotechnology, and information technology have greatly promoted the development of rice breeding, the current pace of rice breeding is insufficient to meet the food demand of the ever-increasing global population and the changing environments. The in-depth development and application of many omics technologies, including genomics, transcriptomics, metabonomics, proteomics, etc., have significantly promoted genetic analyses and functional gene mining of elite rice germplasm resources. Many genes/QTLs for yield, quality, resistance, and other important traits have been identified. This Special Issue will focus on “Breakthroughs and Prospects of Rice Breeding”. We seek original research articles and reviews covering all related topics, including detection of genes/QTLs with important breeding value, creation of new genetic variation through gene editing, development of breeding methods, and the successful practice of rice breeding.

Guest Editors

Prof. Dr. Zefeng Yang

College of Agriculture, Yangzhou University, Yangzhou 225009, China

Dr. Yang Xu

College of Agricultural Science, Yangzhou University, Yangzhou, Jiangsu 225009, China

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Agronomy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agronomy@mdpi.com

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,
Charles Sturt University, Wagga Wagga, NSW 2678, Australia

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