Special Issue

Planting Strategies and Germplasm Screening for Saline-Alkali Tolerant Rice

Message from the Guest Editors

The reduction of farmland area due to soil salinization has become one of the most significant factors limiting the increase in grain yield. Screening rice germplasm for salt and alkali tolerance and implementing appropriate cultivation measures are the primary methods for enhancing rice salt tolerance. Despite the abundance of documents on salt-tolerant genes, none have yet been successfully applied in field production. Therefore, further exploration of genes and functional research is necessary. Furthermore, cultivation techniques suitable for planting in saline soil require further research and exploration. Therefore, this Special Issue aims to highlight a range of reviews, perspectives, and research articles on the mapping and functional analysis of rice mutants and QTLs under salt stress, regulatory measures for cultivating rice with salt tolerance, physiological performance of rice plants under salt stress, and exploration and utilization of rice salt tolerance genes. Some other excellent measures for improving soil salinization include but are not limited to, nanotechnology and so on.

Guest Editors

Dr. Baohua Feng

China National Rice Research Institute, Hangzhou, China

Dr. Guanfu Fu

Research and Development Center of Rice Cropping Technology, China National Rice Research Institute (CNRRI), Hangzhou 310006, China

Dr. Xiaobo Zhang

State Key Laboratory of Rice Biology and Breeding, China National Rice Research Institute, Hangzhou 310006, 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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