Special Issue

Prospects and Challenges of Rice Breeding under Climate Change

Message from the Guest Editors

Under the background of climate change, rice breeding is facing great challenges. Firstly, increases in temperature are affecting rice cultivation with the northward expansion in Asia, and secondly, high-temperature stress is leading to a decrease in the rice heading date, and the high temperature at the heading stage may also lead to an increase in blighted grain and reduction in yield. Low-temperature stress at the transplanting stage of early rice and booting stage of late rice will also reduce rice yield. The frequent occurrence of disastrous weather requires us to cultivate new rice varieties that are resistant to high temperature, low temperature, lodging, flooding, pre-harvest sprouting, salinity, drought, disease, and insects.

This Special Issue focuses on the exploration of new rice germplasms, new genes, and new breeding techniques to resist adverse climatic conditions. This issue on the “Prospects and Challenges of Rice Breeding under Climate Change” will cover interdisciplinary research in agronomy, crop genetics and breeding, and molecular biology. All types of articles, such as original research, opinions, and reviews, are welcome.

Guest Editors

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