

Special Issue

Rice Genetics: Trends and Challenges for the Future Crops Production

Message from the Guest Editors

Future food security will require reducing crop losses due to environmental factors, including climate change, as well as transformative advances that provide major gains in yields. More recent genomic technologies have expedited breeding and trait development for increased environmental resilience and productivity. Complementary to breeding approaches, advances in the spatial and temporal regulation of engineered genes and pathways are increasingly accelerated by the targeted editing of genomes using CRISPR/Cas technology. A greater understanding of plant mechanisms that increase yields in variable environments is essential to drive the necessary gains in crop improvement, which can be fuelled by genetic diversity and implemented by genome-scale breeding, finely-tuned gene engineering and more precise agronomic management practices. This Special Issue will provide a platform to present and discuss related topics of research progress and trends in the genetics, genomics, and breeding of rice.

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