# Special Issue

# Integrative Genomics, Molecular Markers, and Breeding Strategies in Rice

# Message from the Guest Editors

Rice is a staple crop sustaining more than half of the global population, and its continuous improvement is critical in ensuring global food security. Recent advances in genomics, molecular markers, and multiomics technologies have greatly expanded our ability to dissect complex traits and accelerate the development of improved rice varieties. These tools, together with innovative breeding strategies, provide new opportunities to enhance yield, grain quality, and resilience to biotic and abiotic stresses. This Special Issue will focus on integrative genomics, molecular marker applications, and innovative breeding approaches in rice. We particularly encourage studies addressing genetic variation, haplotype diversity, population structure, and trait-marker associations, as well as integrative analyses combining genomics, transcriptomics, metabolomics, and advanced computational approaches. We welcome original research articles, reviews, and short communications that report novel molecular tools, the functional validation of candidate genes, and practical applications of genomics-assisted breeding strategies for rice improvement.

#### **Guest Editors**

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# Deadline for manuscript submissions

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#### Editor-in-Chief

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