# Special Issue

# **Genetics and Breeding of Rice**

### Message from the Guest Editor

Rice (Oryza sativa) stands as a cornerstone of sustenance for more than half of the global population, underlining the imperative of its genetic enhancement for bolstering global food security. Recent years have witnessed remarkable advancements in comprehending rice genetics and deploying pioneering breeding methodologies to amplify its productivity, quality, and resilience. Central to contemporary rice genetic breeding are approaches that tap into the natural genetic reservoir through genome-wide association studies (GWASs) and quantitative trait locus (QTL) mapping. These endeavors pinpoint advantageous alleles governing pivotal agronomic traits like vield. disease resistance, and stress tolerance. Molecular markers extrapolated from these investigations play a pivotal role in expediting breeding schemes through marker-assisted selection (MAS) and genomic selection (GS), thereby optimizing breeding efficiency.

### **Guest Editor**

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### Deadline for manuscript submissions

closed (25 December 2024)

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### Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the Genes team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider Genes for your next genetics paper?

### Editor-in-Chief

### Prof. Dr. Selvarangan Ponnazhagan

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