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Research Article

Genetic Diversity and Phylogenetic Position of Traditional Rice (*Oryza sativa* L.) Landraces: A Case Study of South Kalimantan in Indonesia

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Abstract: Traditional rice (*Oryza sativa* L.) landraces provide many essential genes for improving yield, disease resistance, abiotic stress tolerance, and other parameters for future rice breeding. This study aimed to analyze the genetic diversity and determine the phylogenetic position of the traditional rice landraces from the tidal swamp areas of South Kalimantan, Indonesia, compared to other rice germplasm, including wild relatives, obtained from the GenBank database, using a cpDNA-*rbcl* marker. In this case, six traditional rice landraces from this region were collected and analyzed molecularly using the *rbcl* marker and compared with 16 similar others and 25 wild relatives from the GenBank database. The genetic diversity of this germplasm was determined using the nucleotide diversity index (π), whereas the phylogenetic analysis by maximum likelihood


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