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Genetic evaluation of tidal swamp rice from South Kalimantan, Indonesia based on the agro-morphological markers

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Abstract. Mursyidin DH, Khairullah I. 2020. Genetic evaluation of tidal swamp rice from South Kalimantan, Indonesia based on the agro-morphological markers. *Biodiversitas* 21: 4795-4803. A total of 71 cultivars of the tidal swamp rice (*Oryza sativa* L.), originated mainly from South Kalimantan, Indonesia, were evaluated agro-morphologically by using 26 qualitative and 13 quantitative traits. Based on these traits, this germplasm is generally low in diversity. However, three agro-morphological traits, namely the tillering abilities, seedling height, and diameter of the basal internode, shows the relatively highest diversity, shown by the *Lakatan Putih*, *Pandak Putih*, and *Bayar Papuyu*, respectively. The UPGMA and PCA revealed that this germplasm divided into six main clusters, where the sixth cluster is the largest with a total membership of 60 cultivars. The cluster analysis also revealed that *Lakatan Siam* is far separate from other cultivars. Thus, this finding might be useful in the future rice breeding programs, particularly in developing new rice cultivar for the tidal swamp areas.

Keywords: Genetic diversity, landrace, plant breeding, tidal swamp area

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