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Research Article

Genetic Diversity of Elephant Foot Yam (*Amorphophallus paeoniifolius*) and Two Other Relatives from the Meratus Mountains of South Kalimantan, Indonesia

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ABSTRACT

Elephant foot yam (*Amorphophallus paeoniifolius*) is a tuber crop with high economic value, so it is very prospective to be developed. This study aimed to characterize and determine the genetic diversity and relationship of *A. paeoniifolius* and two other relatives from the Meratus Mountains of South Kalimantan, Indonesia, using the *rbcL* marker. Eight samples of *A. paeoniifolius* and three other ones (outgroups), two of *A. muelleri* and one of *A. borneensis*, were used in the study. The genetic diversity was determined using the nucleotide diversity index (π), whereas the phylogenetic relationships were reconstructed using the Maximum Likelihood (ML) and Neighbor-Joining (NJ) methods. The results show that this germplasm has a high diversity at an inter-species level of 0.95% and a low at intra-species (0.33%). The phylogenetic analyses revealed that *Amorphophallus* from this region separated into different clades, three for NJ and one for ML. In this case, *A. paeoniifolius* var. *sybestrus* from Bati-Bati, Tanah Laut is closely related to *A. paeoniifolius* var. *borneensis* from Maraiji, Balangan. In conclusion, although *Amorphophallus*

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