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Research Article

Phenotypic Diversity of Super Local Durian (*Durio zibethinus* Murr.) Varieties from South Kalimantan, Indonesia: A Case Study

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Abstract: *Durio zibethinus*, known as durian in several Southeast Asian countries, is a prospective horticultural commodity to cultivate and develop. This study aimed to determine the phenotypic diversity and relationship of superior durian varieties from South Kalimantan in Indonesia based on morphological characteristics. Here, 20 varieties of durian (*D. zibethinus*), including an outgroup, were used. Meanwhile, 57 morphological characteristics, comprising 35 qualitative and 22 quantitative, were observed. The Shannon index (H') method was applied for phenotypic diversity, and the relationships were by the UPGMA. The results show that durians of the region have low phenotypic diversity. However, some morphological characteristics show high ones, e.g., crown shape, fruit skin color and thickness, fruit flesh thickness, and fruit spine length,

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