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KEANEKARAGAMAN DAN KEKERABATAN GENETIK ARTOCARPUS BERDASARKAN PENANDA DNA KLOROPLAS *matK* & *rbcL*: KAJIAN IN SILICO

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Dindin H. Mursyidin & M. Irfan Makruf. 2020. Genetic Diversity and Relationships of *Artocarpus* Based on DNA Chloroplast (*matK* & *rbcL*) Markers: In Silico Study. *Floribunda* 6(5): 195–206. — *Artocarpus* is the genus of the *Moraceae* family which has a high species diversity. However, due to excessive habitat degradation and conversion, its existence is threatened. This study aims to analyze the diversity and genetic relationships of *Artocarpus* using DNA chloroplast markers (*matK* and *rbcL*), based on *in silico* analysis. A total of 2 sets of *matK* and *rbcL* sequences from 48 *Artocarpus* species have been analyzed using some software, namely BLAST, Clustal Omega and MEGA-X, and reconstructed phylogenetically using the *Maximum Likelihood* method. The results showed that *Artocarpus* has a relatively high diversity at the nucleotide level, mainly for the *rbcL* (0.56). The results of the genetic relationship show that *Artocarpus* is generally separated into two main groups or clades, following both sequences, as well as its combination. This information might be useful in supporting the conservation and breeding programs of *Artocarpus*, especially in Indonesia.

Keywords: *Artocarpus*, chloroplast DNA, conservation, genetic diversity, phylogenetic.

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