

Genetic mutation in mangrove *Acanthus ilifolicus* base on DNA Barcode (rbcL and matK gen) in the different environment change in coastal Cilacap, Central Java, Indonesia

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Abstract	mangroves are salt-tolerant forest ecosystems of tropical and subtropical intertidal regions. They are among most productive, diverse, biologically important ecosystem and inclined toward the threatened system. In recent years, DNA barcoding using plastid markers rbcL and matK has been suggested as an effective method to enrich traditional taxonomic expertise for rapid species identification, mutation genetic and biodiversity inventories. This research use survey method and descriptive qualitative analysis in the laboratory. This research aimed to determine the mutation DNA of plant barcoding standard <i>A. ilifolicus</i> based gene rbcL and matK compare with species in the different location. Total DNA was isolated and successfully amplified by the Polymerase Chain Reaction (PCR) using primers based on the gene rbcL and matK. The results of sequencing long DNA fragments showed 760 bp are amplified by the forward primer and bp were 760 bp amplified by the primer for reverse. This study indicated that had been a mutation spesies in contaminated mangroves compared with uncontaminated mangroves.
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