

Synedrella nodiflora (L.) Gaertn Populations in Sumatra Island Showed Low Genetic Differences: A study based on the intergenic spacer *atpB* - *rbcL*

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Abstract	<p>Previous study on <i>Synedrella nodiflora</i> (L.) Gaertn populations in Java Island showed both very low haplotype and nucleotide diversity, and at the same time revealed high connectivity among the populations. Sumatra Island, which is like Java Island located in Sunda Shelf, has been subjected to relatively increasing human population and overexploitation of natural resources in a few last decades. This condition put the island of being vulnerable to terrestrial ecosystem changes that potentially influence the existing populations of <i>S. nodiflora</i>. Hence, this study aimed to assess genetic differences among <i>S. nodiflora</i> populations in Sumatra Island using intergenic spacer (IGS) <i>atpB</i> - <i>rbcL</i>. This molecular marker has been used in the population genetic study of some plant species. In this study we collected randomly 20 individuals from four different locations in Sumatra. The results showed, based on IGS <i>atpB</i> - <i>rbcL</i> sequences of 860 bp length, that only two haplotypes were found. One of them was the same haplotype mostly found in Java Island, and the other showed some base substitutions. Low genetic differences indicating high connectivity among populations of <i>S. nodiflora</i> in Sumatra Island is observed.</p>
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