

APPLICATION OF *rbcL* AND *trnL - trnF* SEQUENCING TO STUDY CLASSIFICATION OF CASHEW FAMILY (ANACARDIACEAE) IN VIETNAM

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Summary

In the flora of Vietnam, Cashew family (Anacardiaceae) has been recorded 66 species and subspecies, they distribute in all of areas. Although many studies to classify Anacardiaceae based on the morphological characteristics have been done. So far, there has been very few the reseach on classificaton of Anacardiaceae in Vietnam based on molecular biology evidence. In this study, the *rbcL* and *trnL - trnF* (600 bp and 1000 bp) of 25 samples belonging Anacardiaceae in Vietnam were sequenced. Based on the Neighbor – Joining (NJ) method, a phylogeny of Anacardiaceae in Vietnam was built by MEGA7 Paup software, with bootstrap value of 1000. The system of Anacardiaceae in Vietnam including 4 tributes, 22 genera, 66 species and subspecies was built based on the phylogeny of Anacardiaceae in Vietnam. Based on the system and morphological characteristics, the dichotomous key to genera of Anacardiaceae in Vietnam was built.

Keywords: *Phylogeny, Cashew family, classification, rbcL, trnL-trnF.*