

ABSTRACT

Delima Sari Sitanggang. 24020117120019. Kinship Relationship of *Ficus* Genus in Diponegoro University Tembalang Area, Central Java based on Morphological Evidence. Department of Biology, Faculty of Science and Mathematics, Diponegoro University, under the guidance of Lilih Khotimperwati and Ni Kadek Dita Cahyani.

Ficus is a genus of 1000 species in the Moraceae family distributed mainly in tropical and subtropical regions. The diversity of *Ficus* life forms is interesting and easily found in various ecosystem types. Phenetic kinship is used to represent relatedness using all shared characteristics. The greater the similarity, the closer the relationship. Relationships are studied through a phenetic approach based on the number of degrees of similarity present. Using some of the same characteristics, the characteristics are compared using clustering methods. This study aims to identify the species of *Ficus* and analyze the morphological variations of the species of the *Ficus* genus in the Undip Tembalang area. Sampling was done by cruising method. The results obtained 3 species namely *Ficus auriculata*, *Ficus hispida*, and *Ficus septica*. The Urostigma subgenus consists of 6 species namely *Ficus aurea*, *Ficus benjamina*, *Ficus drupacea*, *Ficus kurzii*, *Ficus lyrata*, and *Ficus virens*. Based on the similarity matrix value, it is known that the closest kinship relationship is between *Ficus virens* and *Ficus benjamina* with a similarity index of 0.76. The farthest kinship relationship is between *Ficus drupacea* and *Ficus septica* with a similarity index of 0.29. It is expected to conduct further research on generative characters to add insight into *Ficus* in the Undip Tembalang Campus Area, Central Java.

Keyword : Diversity, Ficus, Phenetic, Kinship, UNDIP