

HUBUNGAN KEKERABATAN SEMBILAN KULTIVAR STROBERI (*Fragaria* spp.) BERDASARKAN KARAKTER ANATOMIS DAN MORFOLOGIS

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INTISARI

Balai Penelitian Jeruk dan Tanaman Sub-tropika merupakan pusat budidaya stroberi yang ada di Indonesia. Informasi klasifikasi berdasarkan karakter fenotip *Fragaria* spp. belum dipelajari secara keseluruhan. Penelitian ini bertujuan untuk mengetahui klasifikasi dan hubungan kekerabatan beberapa kultivar stroberi berdasarkan karakter Anatomis dan Morfologis. Dalam penelitian ini dilakukan klasifikasi beberapa kultivar stroberi yang mengacu pada IPGRI (1986) dan UPOV (2012) serta Hofer *et al.*, (2012). Pembuatan preparat anatomis akar, batang dan daun dilakukan dengan metode penyelubungan (*embedding*). Hubungan kekerabatan ditentukan dengan menggunakan software MVSP dengan algoritma UPGMA melalui metode *Gower General Similarity Coefficient*. Selanjutnya dilakukan analisis komponen utama menggunakan algoritma *Euclidian Biplots* yang digambarkan dalam bentuk *Scatter plot*. Hasil penelitian dari sembilan kultivar yang diamati menunjukkan kultivar yang berkerabat dekat adalah Festival dan Rosa Linda pada indeks similaritas 94% dan kultivar Earlibrite dan Aerut dengan indeks similaritas 86 %.

Kata kunci : *Fragaria* spp., hubungan kekerabatan, anatomis, morfologis.

**PHENETIC RELATIONSHIPS OF NINE STRAWBERRY (*Fragaria* spp.)
CULTIVARS BASED ON ANATOMICAL AND MORPHOLOGICAL
CHARACTERS**

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ABSTRACT

Research Institute for Citrus and Subtropical Crops are cultivated strawberry center in Indonesia. Information of classification based on phenotypic characters of *Fragaria* spp. has not been studied as a whole. The objectives of this study aimed to observe classification and similarity relationships of nine strawberry cultivars based on anatomical and morphological characters. In this study the classification of several cultivars of strawberries was done based on the IPGRI (1986) and UPOV (2012) and Hofer *et al.*, (2012). Preparations of roots, stems and leaves anatomy were conducted by embedding method. In constructing a dendrogram used MVSP software with UPGMA algorithm through *Gower General Similarity Coefficient* analytical method. Principal component analysis using the *Euclidian Biplots* algorithm was presented in scatter plot. The results of the nine cultivars were observed showed that closely related cultivars were Festival and Rosa Linda at 94% similarity index and cultivars of Earlibrite and Aerut with 86% similarity index.

Keywords: *Fragaria* spp., phenetic relationship, anatomical, morphological.