

**KARAKTERISASI JAMUR ENDOFIT PADA BENALU KOPI****Inka Sara Sianturi (4132220015)****ABSTRAK**

Jamur endofit merupakan mikroorganisme yang hidup berkoloni dalam jaringan tumbuhan tanpa membahayakan tumbuhan inangnya. Penelitian ini bertujuan untuk mengetahui ciri makroskopis dan mikroskopis jamur endofit pada Benalu Kopi serta keanekaragamannya. Penelitian ini dilakukan di Laboratorium Mikrobiologi FMIPA UNIMED pada bulan Maret November 2018. Data dalam penelitian dianalisis menggunakan analisis cluster Jaccard's Coefficient dalam program Multi Variate Statistical Package (MVSP), dimana setiap isolat yang memiliki indeks similaritas  $\geq 70\%$  dikelompokkan dalam satu genus. Hasil penelitian menunjukkan bahwa 13 isolat jamur endofit yang ditemukan, dikelompokkan dalam 5 genus. Kelima genus tersebut antara lain *Aspergillus*, *Penicillium* dan *Curvularia*. Genus *Aspergillus* merupakan genus yang paling banyak ditemukan dengan jumlah sebesar 61%, sedangkan genus yang paling sedikit ditemukan yaitu *Curvularia* dengan jumlah sebesar 7%.

**Kata kunci:** Karakterisasi, Jamur endofit dan Benalu kopi

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## CHARACTERIZATION OF ENDOPHYTIC FUNGI FROM BENALU KOPI

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## ABSTRACT

endophytic fungi are mikroorganism that live colonizing plant tissue without endangering their host plants. This study aims to determine the macroscopic and microscopic characteristic of endophytic fungi in the Benalu Kopi leaves, stems and its diversity. This research was conducted at Microbiology Laboratory of the FMIPA UNIMED starting from March to November 2018. Data in the research were analyzed using Jaccard's Coefficient cluster analysis in the Multi Variate Statistical Package (MVSP) program, where each isolate with a similarity index of  $\geq 70\%$  was grouped in one genus. The results showed that 13 endophytic fungi isolates were found, grouped in 3 genus. the three genus include *Aspergillus*, *Penicillium* and *Curvularia*. Genus *Aspergillus* is the most found genus with an amount of 61%, while the least found genus are *Curvularia* in the amount of 7%.

**Keywords:** Characterization, Endophytic fungi and Benalu kopi

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