

ANALISIS STOMATA PADA TUMBUHAN GANDARIA (*Bouea macrophylla*) ASAL AMBON, BOGOR DAN BATUSANGKAR

Umi Kalsum (4131220011)
Email : umikalsumnuddin04@gmail.com

ABSTRAK

Penelitian ini bertujuan untuk mengetahui perbedaan letak stomata, tipe stomata, jumlah stomata, kerapatan stomata, dan indeks stomata pada tumbuhan Gandaria (*Bouea macrophylla*) asal Ambon, Bogor, dan Batusangkar. Penelitian ini telah dilaksanakan pada bulan April – Mei 2017, di Laboratorium Biologi FMIPA Universitas Negeri Medan, menggunakan irisan membujur dan sampel diamati dibawah mikroskop. Hasil penelitian menunjukkan bahwa ketiganya memiliki letak stomata yang sama yaitu berada di sel epidermis bawah. Tipe stomata pada tumbuhan gandaria (*Bouea macrophylla*) asal Ambon, Bogor, dan Batusangkar parasitik. Jumlah stomata pada tumbuhan gandaria Ambon 18, Bogor 10 , dan Batusangkar 22. Kerapatan stomata yang paling tinggi terdapat pada tumbuhan Gandaria spesies *Bouea macrophylla* lokasi Ambon $5,73 \text{ mm}^2$, $5,75 \text{ mm}^2$, $5,41 \text{ mm}^2$, $3,18 \text{ mm}^2$ dan paling rendah terdapat pada tumbuhan Gandaria spesies *Bouea macrophylla* lokasi Batusangkar sebesar $1,27 \text{ mm}^2$, $1,75 \text{ mm}^2$, $1,59 \text{ mm}^2$, $1,59 \text{ mm}^2$. Indeks stomata yang tertinggi terdapat pada sampel tumbuhan Gandaria spesies *Bouea macrophylla* lokasi Batusangkar yaitu 9,19 % (atas), 10,73 % (bawah), 10,15 % (kanan), 10 % (kiri). Dan yang paling rendah yaitu pada sampel tumbuhan Gandaria spesies *Bouea macrophylla* lokasi Ambon yaitu 8,74 % (atas), 9,14% (bawah), 9,09 %, 7,8%

Kata Kunci : Gandaria, *Bouea macrophylla*, Stomata, Analisis.



ANALYSIS OF STOMATES IN GANDARIA PLANT (*Bouea macrophylla*) FROM AMBON, BOGOR AND BATUSANGKAR

**Umi Kalsum (4131220011)
Email : umikalsumnuddin04@gmail.com**

ABSTRACT

This research aims to know the difference of stomata location, stomata type, stomata number, stomata density, and stomata index in Gandaria's leaves (*Bouea macrophylla*) from Ambon, Bogor and Batusangkar. The research was conducted in April - May 2017, at the Biology Laboratory State University of Medan, using longitudinal slices and then samples observed under a microscope. The results showed that all three have the same stomata location that is in the lower epidermal cells. Stomatal type in gandaria plant (*Bouea macrophylla*) from Ambon, Bogor, and Batusangkar is parasitik. Number of stomata from Ambon are 18, Bogor 10 and Batusangkar 22. The highest stomatal density was found in Gandaria plant of *Bouea macrophylla* from Ambon 5.73 mm², 5.75 mm², 5.41 mm², 3.18 mm² and the lowest was found in the Gandaria plant of *Bouea macrophylla* from Batusangkar by 1.27 mm², 1.75 mm², 1.59 mm², 1.59 mm². The highest stomatal index was found in the Gandaria species of *Bouea macrophylla* from Batusangkar, 9.19% (upper), 10.73% (lower), 10.15% (right), 10% (left). And the lowest is on samples of Gandaria plant *Bouea macrophylla* from Ambon location that is 8.74% (upper), 9,14% (lower), 9,09% , 7,8% .

Keywords : Gandaria, *Bouea macrophylla*, Stomata, Analysis.