

Anggi Vonita Sari. (170311100007). Efek Pemberian *Indole Acetic Acid* dan *Benzil Amino Purin* terhadap Stek Batang Kuping Gajah (*Anthurium crystallinum*). Dibimbing Oleh: Dr. Agr. Eko Setiawan, SP., M.Si dan Mustika Tripatmasari, SP., M. Si

ABSTRAK

Stek batang *Anthurium crystallinum* sangat dipengaruhi faktor internal dan faktor eksternal stek. Kedua faktor tersebut penting diperhatikan untuk pertumbuhan stek batang *Anthurium crystallinum*. Pemberian zat pengatur tumbuh pada batang stek akan membantu meningkatkan pertumbuhan dari stek. Penggunaan zat pengatur tumbuh seperti auksin dan sitokinin menjadi alternatif untuk peningkatan pertumbuhan akar dan tunas pada stek. Tujuan penelitian dilakukan untuk mengetahui pengaruh pemberian *Indole Acetic Acid*, pemberian *Benzil Amino Purin* serta interaksi *Indole Acetic Acid* dan *Benzil Amino Purin* terhadap pertumbuhan stek batang *Anthurium crystallinum*. Penelitian dilakukan di *Screenhouse* Universitas Trunojoyo Madura menggunakan Rancangan Acak Kelompok faktorial dan dikelompokkan menurut bahan tanam stek. Faktor pertama IAA (0 ppm, 100 ppm, 200 ppm) dan faktor kedua BAP (0 ppm, 100 ppm, 200 ppm) dengan 9 kombinasi perlakuan dengan 3 ulangan. Hasil penelitian menunjukkan Pemberian *Indole Acetic Acid* (IAA) berpengaruh nyata terhadap pertumbuhan panjang tunas, jumlah akar dan jumlah tunas stek batang *Anthurium crystallinum*. Pemberian *Benzil Amino Purin* berpengaruh nyata terhadap pertumbuhan panjang tunas, panjang akar, jumlah akar dan jumlah tunas stek batang *Anthurium crystallinum*. Interaksi *Indole Acetic Acid* dan *Benzil Amino Purin* berpengaruh nyata terhadap pertumbuhan panjang akar, jumlah tunas dan muncul tunas stek batang *Anthurium crystallinum*.

Kata Kunci : *Anthurium crystalinum*, ZPT, IAA, BAP

Anggi Vonita Sari. (170311100007). *Effect of Indole Acetic Acid and Benzyl Amino Purine on Kuping Gajah Stem Cuttings (Anthurium crystallinum)*. Guided by Dr. Agr. Eko Setiawan, SP., M.Si and Mustika Tripatmasari, SP., M. Si

ABSTRACT

Anthurium crystallinum stem cuttings are strongly influenced by internal factors and external factors cuttings. Both of these factors are important to note for the growth of *Anthurium crystallinum* stem cuttings. Provision of growth regulators on the stem cuttings will help increase the growth of the cuttings. The use of growth regulators such as auxins and cytokinins is an alternative to increase root and shoot growth on cuttings. The purpose of this study was to determine the effect of giving Indole Acetic Acid, giving Benzyl Amino Purine and the interaction of Indole Acetic Acid and Benzyl Amino Purine on the growth of *Anthurium crystallinum* stem cuttings. The study was conducted at the Screenhouse of Trunojoyo Madura University using a factorial randomized block design and grouped according to elephant ear planting material. The first factor was IAA (0 ppm, 100 ppm, 200 ppm) and the second factor was BAP (0 ppm, 100 ppm, 200 ppm) with 9 treatment combinations with 3 replications. The results showed that the administration of Indole Acetic Acid significantly affected the growth of shoot length, number of roots and number of shoots of *Anthurium crystallinum* stem cuttings. The administration of Benzyl Amino Purine significantly affected the growth of shoot length, root length, number of roots and number of shoots of *Anthurium crystallinum* stem cuttings. The interaction of Indole Acetic Acid and Benzyl Amino Purine had a significant effect on the growth of root length, number of shoots and shoot emergence of *Anthurium crystallinum* stem cuttings.

Keywords: *Anthurium crystallinum*, ZPT, IAA, BAP