

**EFEKTIVITAS PENGARUH IAA DAN BAP TERHADAP INDUKSI
TUNAS UBI KAYU (*Manihot esculenta* Crantz)
SECARA *IN VITRO***

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui efektivitas pengaruh konsentrasi Zat Pengatur Tumbuh (ZPT) terhadap induksi tunas ubi kayu. Penelitian ini dilaksanakan bulan November 2018 – Januari 2019 di Laboratorium Kultur Jaringan Politeknik Negeri Jember. Penelitian ini dilakukan dengan menambahkan IAA dan BAP pada media MS dan disusun dengan Rancangan Acak Lengkap (RAL) faktorial. Faktor Pertama yaitu konsentrasi BAP sebanyak tiga taraf (0,5 ppm , 0,75 ppm , dan 1 ppm). Sedangkan faktor kedua yaitu konsentrasi IAA sebanyak tiga taraf (0,2 ppm, 0,4 ppm ,dan 0,6 ppm). Hasil penelitian menyatakan bahwa Konsentrasi BAP berpengaruh nyata terhadap kedinian tunas,dan tidak berpengaruh tidak nyata terhadap panjang tunas, jumlah tunas, dan jumlah daun.Akan tetapi interkasi perlakuan IAA dan BAP memberikan pengaruh sangat nyata terhadap tinggi tunas pada 12 MST dengan perlakuan terbaik B₁A₁ dengan rata-rata tinggi tunas 1,2 cm.

Kata Kunci : *BAP ,IAA, Induksi Tunas , Ubi Kayu.*

**EFFECTIVITY IAA AND BAP EFFECTS ON INDUCTION OF CASSAVA
SHOOTS (*Manihot esculenta Crantz*) IN VITRO**

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ABSTRACT

This study aims to determine the effectivity of the effect of the concentration of Growth Regulatory Substances (ZPT) on the induction of cassava shoots. This research was conducted in November 2018 - January 2019 at the State Polytechnic Culture Laboratory in Jember. This research was conducted by adding IAA and BAP to MS media and applied with factorial Completely Randomized Design (CRD). The first factor is the BAP concentration of three levels (0.5 ppm, 0.75 ppm, and 1 ppm). While the second factor is the IAA concentration of three levels (0.2 ppm, 0.4 ppm and 0.6 ppm). The results of the study stated that BAP concentration had no significant effect on shoot length, number of shoots, and number of leaves. However, the interaction of IAA and BAP treatment had a very significant effect on shoot height with the best treatment of B1A1 with an average shoot height of 1.2 cm

Keyword: BAP Cassava, IAA ,Induction ,