ELONGASI KLON JATI UNGGUL PURWO (*Tectona grandis L.*) DENGAN ZPT ASAM GIBERALAT (GA_4) SECARA *IN VITRO*

(The Elongation of Teak bud Jati Unggul Purwo (JUP) In Vitro Culture by The Concentration of Gibberellic Acid (GA_4))

Anggha Sulung Pambudi
Innaka Ageng Rineksane/Toni Herawan
Jurusan Agroteknologi Fakultas Pertanian UMY

ABSTRACT

The research was conducted to determine GA_4 concentration as growth regulator in acceleration of in vitro elongation for teak shoot explants subculture. The research was done at In Vitro Culture Laboratory, Balai Besar Pengembangan Bioteknologi dan Pemuliaan Tanaman Hutan (BBPBPTH), Sleman, Yogyakarta. The research was arranged in single factor of Completely Randomized Design (CRD) experiment. The treatments consist of 0 mg/l GA_4 concentration, 0,1 mg/l GA_4 concentration, 0,3 mg/l GA_4 concentration and 0,5 mg/l GA_4 concentration. Analyzed parameters were percentation of life, percentation of browning, percentation of contamination, number of leaf, number of shoot and shoot height. The ekongation phase of teak in vitro was unsignificantly promoted by GA_4 addition in all concentration. The best result in 0 mg/l GA_4 concetration was shown in this research by the shoot height (3,35 cm), number of leaf (8,00) and number of shoot (0,9).

***Keyword** : explant, teak (Tectona grandis L.), Gibberellic acid (GA_4), subculture*