

CONCENTRATION OF KINETIN AND IAA INFLUENCES FOR VANILLA EXPLANT GROWTH (*Vanilla planifolia* Andrews) BY *IN VITRO*

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ABSTRACT

Vanilla crop (*Vanilla planifolia* Andrews) representing one of high economic valuable mace crop and the main commodity of Indonesian typical crop. Generally the vanilla crop developed by vegetatif that is by stek. The other way of vegetatif is also conducted by using *In Vitro* technique. The objective of this research is to get the real influence of Kinetin and IAA treatment for vanilla explant (*Vanilla planifolia* Andrews) growth that is multiplied by *In Vitro*. It's conducted from May up to August 2006 using Completely Randomize Device (RAL). The result of the research show that combination of 0,4 ppm Kinetin and 1 ppm IAA induce the vanilla root faster, while the combination of 0,4 ppm Kinetin and 2 ppm IAA good for internode of vanilla explant growth.