

**Perbanyak tanaman gaharu (*Aquilaria malaccensis* L ) sebagai upaya pelestarian plasma nutfah secara *in vitro*  
(Plant Propagation Agarwood (*Aquilaria malaccensis* L ) by Effort Conservation Plasma Nutfah to *in Vitro*)**

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**ABSTRAK**

Experiment to investigate (Plant Propagation Agarwood (*Aquilaria malaccensis* L ) by Effort Conservation Plasma Nutfah to *in Vitro*) was done in February to September 2006 at tissue cultur laboratory of Agriculture Faculty, University Andalas Padang.

The experiment consist of two series, The first series about give concentration 2,4-D for induction callus, seven (7) level consist of : 0,00 ppm (A1); 5,00 ppm (A1); 10,00 ppm (A2); 15,00 ppm (A3); 20,00 ppm (A4); 25,00 ppm (A5); dan 30,00 ppm (A6)

The second series about give combination concentration NAA and BAP for regeneration callus, seven (7) level consist of : 0,00 ppm NAA + BAP + 0,10 Kinetin (K0); 0,50 ppm NAA + 0,10 ppm Kinetin + 1,75 ppm BAP(K1); 0,50 ppm NAA + 0,10 ppm Kinetin + 3,50 ppm BAP(K2); 0,50 ppm NAA + 0,10 ppm Kinetin + 5,25 ppm BAP(K3); 1,0 ppm NAA + 0,10 ppm Kinetin + 1,75 ppm BAP(K4); 1,0 ppm NAA + 0,10 ppm Kinetin + 3,50 ppm BAP(K5); dan 1,0 ppm NAA + 0,10 ppm Kinetin + 5,25 ppm BAP(K6)

The experiment used Completely Randomized Design (CRD) with four (replication).

Concentration 15,00 ppm 2,4-D (A3) were superior result than any another treatment the support growth to get explant life, callus formation , and less browning. Combination concentration 1,00 ppm NAA + 3,50 ppm BAP (K5) were superior result than any another treatment the support growth to get callus life, and regeneration callus formed shootlet.