

**TRANSFORMASI GAMBIR (*UNCARIA GAMBIR ROXB.*) DENGAN  
PLASMID RI *AGROBACTERIUM RHIZOGENES* UNTUK  
MEMPEROLEH KULTUR AKAR RAMBUT DALAM UPAYA  
PRODUKSI KATEKIN SECARA *IN VITRO*.**

Oleh :

Zozy Aneloi Noli, Reni Mayerni

Nomor Kontrak : 065/J.16/PL/DIPA/V/2006

**ABSTRACT**

Hairy root cultures have been widely studied and applied for production of plant secondary metabolites. Research to study transformation of *Uncaria gambir* with Ri plasmid of *Agrobacterium rhizogenes* to formation hairy root culture to produce catechin has been done in Laboratorium of Plant Physiology, Biology Department, Faculty of Math and Science, Andalas University, Padang from January 2006 until September 2006. The result showed that initiation time and hairy root formation percentage depend on kind of *A. rhizogenes* strain, type of explant and meuium factor. *A. rhizogenes* strain A4 were effective to induction of hairy root of *Uncaria gambir*. Apical shoot and leaf from *in vitro* culture was identified as the most suitable type of explant for induction of hairy root of *Uncaria gambir* Hairy root of *Uncaria gambir* was induced in B5 medium.