

CHAPTER III
SPECIFIC OBJECTIVES

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The specific objectives of this research project were:

- 1) To make vector constructs of ricin under control of the Cauliflower Mosaic Virus (CaMV) 35S, the dual enhanced CaMV 35S, and the MeGA™ promoter
- 2) To test the level of expression of these constructs during transient expression in hairy root cultures of tobacco co-cultivated with *Agrobacterium tumefaciens*
- 3) To use these constructs to generate transgenic tobacco plants via transformation with *Agrobacterium tumefaciens*
- 4) To characterize the transgenic plants using Western and Southern blot analyses
- 5) To test the enzymatic activity of the tobacco-synthesized ricin