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## Pepper Transformation with GFP by CIT

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### Objectives

To obtain a highly efficient pepper transformation system.

### Materials and Methods

Materials: - Parental inbred lines

Methods : - *Agrobacterium*-mediated transformation by CIT

### Results and Discussion

Pepper has been known as a difficult plant to be transformed and has resisted the efforts of many laboratories for last ten years or so. In order to establish a better system for pepper transformation, we have developed a system called Callus-Induced Transformation (CIT). To test the transformation efficiency of CIT, the *GFP* gene was transformed and *GFP* expression levels were monitored at various organs and developmental stages. Transformation rate by CIT method was ranged from 0.5-1.0%, which is the best ever method is reproducible and applicable to any genotypes.

