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1. JOURNAL. Bayley, C; Trolinder, N; Ray, C; Morgan, M; Quisenberry, J E; Ow, D W. **Engineering 2,4-D resistance into cotton.** Theoretical and Applied Genetics, v.83, n.5, 1992:645-649  
 Language: English; Pub type: JOURNAL ARTICLE

**Abstract:** To reduce damage by drift-levels of the herbicide 2,4-dichlorophenoxyacetic acid, we have engineered the 2,4-D resistance trait into cotton (*Gossypium hirsutum* L.) The 2,4-D monooxygenase gene *tfdA* from *Alcaligenes eutrophus* plasmid pJP5 was isolated, modified and expressed in transgenic tobacco and cotton plants. Analyses of the transgenic progeny showed stable transmission of the chimeric *tfdA* gene and production of active 2,4-D monooxygenase. Cotton plants obtained were tolerant to 3 times the field level of 2,4-D used for wheat, corn, sorghum and pasture crops.

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