

CHAPTER 17

GENETICS

Doctoral Theses

138. KAVITA (P.)
Structural and Expression Analysis of Tapetum Specific Promoters in Brassica Species.
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Abstract

Attempts to delineate putative cis-elements of tapetum specific promoter A9 from *Arabidopsis thaliana* (one of the promoters used in the barnase-barstar technology). The usual methods of creating deletions or linker-scanning mutagenesis to identify cis-elements was not feasible, as a large number of transgenics would have to be developed, therefore took an in-silico approach of phylogenetic footprinting.

Contents

1. Introduction. 2. Identification, isolation and in-silico analysis of A9 and A9-like genes. 3. Expression analysis of tapetum specific promoters. Appendixes and References.