

研究报告

# 银杏LEAFY同源基因的时空表达 Expressions of LEAFY Homologous Genes in Different Organs and Stages of Ginkgo biloba

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### 摘要

以银杏雄株、雌株成年树和还未开过花的幼树的根、茎、叶, 雌株幼果和不同时期的雄花芽、雌花芽为材料, 利用同位素标记, 制备Ginlfy和GinNdly两个特异探针, 进行Northern分子杂交, 研究银杏LFY同源基因Ginlfy、GinNdly在银杏不同器官, 花芽不同生长发育时期的时空表达情况。结果显示, 无论是幼树, 还是成年的雌株、雄株, Ginlfy基因在各个器官, 如根、茎、叶、雌花芽、雄花芽、幼果以及雌花芽、雄花芽的不同发育时期都有表达, 属组成型表达, 而GinNdly基因只在叶和不同时期的雄花芽、雌花芽中表达, 其他器官都不表达, 属特异性表达。银杏双拷贝LFY同源基因中的GinNdly基因可能与开花关系更为密切。

Abstract: Expressions of Ginlfy and GinNdly gene were studied by northern blotting in different organs and stages of Ginkgo Biloba. Ginlfy gene was expressed in different organs such as root, stem, leaf of juvenile tree, male tree and female tree, and in different stages of male flower bud and female flower bud. It was inferred that Ginlfy gene could be expressed constitutionally. GinNdly gene was only expressed in leaf of juvenile tree, male tree and female tree and in different stages of male flower bud and female flower bud, while GinNdly gene was not expressed in the other organs. Therefore it was thought that GinNdly gene could be expressed differentially and be a close relation to development of flower.

关键词 [银杏](#) [LEAFY同源基因](#) [Ginlfy](#) [GinNdly](#) [表达](#) Key words [Ginkgo biloba](#) [LEAFY homologous gene](#) [Ginlfy](#) [GinNdly](#) [Expression](#)

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