

# 家蚕与蓖麻蚕杂交后代变异机理探讨:基因组RAPD检测 Studies on the Mechanism of Variations of Hybrids of Domesticated Silkworm and Eri Silkworm-RAPD Analysis of Genome

刘春宇, 陈元霖, 桂慕燕, 张春玲 LIU Chun-yu, CHEN Yuan-lin, GUI Mu-yan, ZHANG Chun-ling  
福建省厦门大学细胞生物学研究室, 厦门 361005 Institute of Cell Biology, Xiamen University, Fujian Province 361005

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**摘要** 采用24种随机引物, 对以蓖麻蚕精子进行人工授精得到的家蚕后代中的3个稳定变异品系及其亲本的基因组进行了RAPD检测, 结果显示, 在变异品系的RAPD图谱中, 不仅存在大量与母本相同的“亲本带”, 同时还出现了不同数量与母本不同的“变异带”, 包括“非亲本带”、“缺失带”及个别仅与父本相同的“目的带”, 从分子水平上揭示了变异品系存在着明显的“偏母性”与“变异性”特点。

**Abstract:** Twenty-four random primers were used to analyze the genomes of three descendant strains with steady heritable variation produced from domesticated silkworm by artificial insemination with sperms of eri silkworm. The results show that in the RAPD patterns there are many amplified bands called “parental bands” which are similar to those of the female parent. At the same time, there appears varied amount of amplified bands called “variant bands” that are different from those of the female parent. The variant bands include non-parental-bands, lost-bands and several “expected-bands” which only shared with the male parent. This research reveals the significant matrocliny and variation in the descendant strains at the mole

**关键词** [家蚕](#) [蓖麻蚕](#) [杂交](#) [RAPD](#) [Key words](#) [Domesticated silk worm](#) [Eri silkworm](#) [Hybridization](#) [RAPD](#)

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## Abstract

## Key words

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