

# 继代培养的玉米花粉胚性细胞系的倍性及其染色体上组成异染色质变异\*

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摘要 来源于八趟白的细胞系No. 1, 经过六年半继代培养, 显示出随着继代培养时间的延长, 染色体数目变异的频率减低, 其单倍性愈趋稳定。尽管继代培养时间的延长并不影响这个细胞系倍性的稳定性, 但却能引起单倍体细胞中第4和第9染色体上的组成异染色质发生显著变异。

关键词 [玉米花粉胚性细胞系,继代培养,染色体稳定性,组成异染色质变异](#)

分类号

## Variations of Ploidy and Constitutional Heterochromatin on the Chromosomes of Maize Pollen Embryonic Cell Clones in Subculture

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### Abstract

The results obtained indicated that the change of ploidy in maize pollen embryonic cell clone in subculture was related to the genotypes of donor material. In the embryonic cell clone No.1, in the number of haploid cells increased in long-term subculture gradually. The number of diploid cells and aneuploid cells decreased. In a long-term subculture, haploidy of the cell clone No.1 was stable, but variation of constitutional heterochromatic bands on the same chromosomes of the haploid cells was occurred. There were three different Giemsa band patterns on the chromosome 4 and four different band patterns on the chromosome 9.

**Key words** [Maize pollen embryonic cell clones](#) [Subculture](#) [Chromosomal stability](#) [Variation of constitutional heterochromatin](#)

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