

高粱三系及其杂交F1 G-显带核型的比较研究

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摘要 本文首次报道了高粱 (*Sorghum vulgare* L.) 雄性不育系及其保持系和恢复系以及不育系×恢复系杂交F1的G-显带结果, 并进行了核型和带型的比较分析。保持系与不育系的核型和带型基本一致, 相同的细胞核处于不同的细胞质中, 其核型与带型没有明显的变化。三系第2染色体的臂长和臂比差异明显, 第2、6和8染色体的带型也不同。父、母本的不同核型和带型特点在F1中为并显性。讨论了染色体多态及其应用的问题。

关键词 [高粱](#) [染色体](#) [G-带](#)

分类号

Comparative Studies on G-banded Karyotypes of the Three Line and F1 Hybrids in Sorghum

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Abstract

In this paper, the results of G-banding for the male sterile line, its maintainer and restorer as well as F1 hybrids of the sterile line×restorer in Sorghum were reported. Their banding patterns were analyzed comparatively. The sterile line and its maintainer were similar in the karyotypes and bands patterns. There were no prominent variation between the same nuclei located in the different kinds of cytoplasm in the karyotypes and banding patterns. The restorer was obviously different from the male sterile line and its maintainer in the arm length and arm ratio of the chromosome 2, and the banding patterns of the chromosome 2, 6 and 8. The differences of the banding patterns between the paternal and maternal cultivars appeared codominant in the F1 hybrids. The chromosome polymorphisms and their application were discussed.

Key words [Sorghum](#) [Chromosome](#) [G-bands](#)

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