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提莫菲维小麦C-带和N-带异染色质的比较研究

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摘要 利用C-带和N-带分别及连续处理技术对提莫菲维小麦 (*Triticum timopheevi* Zhuk.) 的染色体带型及异染色质的类型与分布进行比较分析。结果表明, 提莫菲维小麦的4A染色体以及G-染色体组带型丰富, 并具有明显的端带, 其异染色质是多样化的。4G和6G为随体染色体, 随体显带明显。在提莫菲维小麦的染色体中异染色质类型有: (1) 只有C+N+型 (4A、4G、6G 和7G染色体); (2) 只有C+N-型 (1A、5A、6A和7A染色体); (3) C+N+和C+N-型 (2A、3A、1G、2G、3G和5G染色体)。在C-带和N-带连续处理中, N-带异染色质的消失部位在1G、2G、3G和5G染色体的端部, 3A染色体的着丝点附近以及染色体1A、2A、5A、6A和7A的着丝点附近及端部。本文还讨论了C-带和N-带异染色质的异同以及端部异染色质在G染色体组进化中的可能作用。

关键词 [提莫菲维小麦,分带,异染色质,染色体组,进化](#)

分类号

Comparative Studies on C-banded and N-banded Heterochromatin of *Triticum timopheevi* Zhuk

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Abstract

With separate C-and N-banding and sequential C-and N-banding analyses ,we observed that C-and N-bands were prominent in *T.timopheevi* Zhuk chromosomes, and the lo meric bands existed on most of the chromosomes in G genome, which appears to correspond to the diversity of *T.timopheevi* Zhuk.heterochromatin.Chromosomes 4G and 6G are satellite chromosomes, and C- and N-bands could be identified in their satellites.Three types of heterochromatin appeared in A and G genomes,they are: (1)only C-banding positive and N-banding positive heterochromatin(C+N+)in chromosomes 4A,4G,6G, and 7G,(2)only C-banding positive and N-banding negative heterochromatin(C+N- in chromosomes 1A,5A,6A and 7A, and (3)both C+N+ and C+N- in chromosomes 2A,3A,1G,2G,3G and 5G.The deficiency of Nbanded heterochromatin occurred near the centromere of chromosome 3A, the telomeres of chromosomes 1G,2G,3G and 5G, and both the centromeres and telomeres of chromosomes 1A,2A,5A,6A and 7A,respectively .The differences between C-banded and N-banded heterochromatin and possible effects of telo-heterochromatin modifications on the evolution of G genome were also discussed.

Key words [T.timopheevi](#) Zhuk [Banding](#) [Heterochromatin](#) [Genome](#) [Evolution](#)

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