

中国东乡野生稻的粗线期分析及其与普通栽培稻的亲合性

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摘要 中国东乡野生稻具多年宿根性, 生长习性分直立型和匍匐型二类, 群体内已有基因分化。形态性状分析证明其为普通野生稻的生态型变种。根尖细胞学鉴定, 其染色体数为 $2n=24$ 。花粉母细胞减数分裂行为正常。粗线期分析证实: 该种具3个中部着丝点染色体, 8个次中部着丝点染色体及一个亚端部着丝点染色体。染色体VIII与核仁相连。染色体绝对长度为 $64.4-18.7\mu$ 。与栽培稻杂交育性正常, 染色体配对良好, 染色体组型可能为AA。

关键词

分类号

Pachytene Analysis on Chinese Dong Xiang Wild Rice and Its Affinity with Cultivated Rice

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Abstract

Chinese Dong Xiang wild rice is perennial, rhizomatous and its growth habits are classified into erect and spreading type. Genic differentiation was found in the wild population. Analysis on the morphological characters of Dong Xiang wild rice suggests that this wild rice be the ecogeographic race of *Oryza sativa* var. spontanea. Cytological observation on the root tips confirms that the chromosome number of it is $2n=24$. Chromosomal behavior of PMC at meiosis is normal. Pachytene analysis revealed that this wild rice possess 3 median, 8 submedian and 1 subtelocentric chromosomes. Chromosome VIII attaches the nuclear body. The absolute length of chromosome complement ranges from 64.4 to 18.7μ . Pollen fertility and chromosome pairing are normal when it crossed with cultivated varieties. Genome of it may be AA.

Key words

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