

烟草种间体细胞杂种及其后代的研究

陈家玉, 王培田, 赵世民, 徐金相, 王联清

中国科学院遗传研究所, 北京

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摘要 通过原生质体融合方法, 获得了普通烟草与黄花烟草的种间体细胞杂种植株。对体细胞杂种及其后代进行了形态学、细胞学及酶学研究。它们有许多显著不同于两个亲本的性状。例如花的颜色, 叶、花及蒴果的形状, 气孔的大小, 染色体的数目, 同工酶谱及花粉育性。实验证明, 通过体细胞杂交, 可以克服某些种间杂交的困难, 可以作为育种工作的有效途径之一。

关键词

分类号

The Research of Interspecific Somatic Hybrids of Tobacco and Their Offsprings

Chen Jiayu, Wang Peitian, Zao Shimin, Xu Jinxiang, Wang Lianqing

Institute of Genetics, Academia Sinica, Beijing

Abstract

Interspecific somatic hybrids of *Nicotiana tabacum* and *N. rustica* were obtained by protoplast fusion. These somatic hybrids and their offsprings were studied by the methods of morphology, cytology and enzymology. They were different from their parents, such as flower colour, flower, leaf and capsule shapes, stomata size, chromosome numbers, zymogram patterns and male fertility. It has been proved the difficulty about some interspecific crosses could be overcome by somatic hybridization and this is one of the effective breeding methods.

Key words

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