

大叶黄烟未传粉子房培养及其细胞学研究

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摘要 大叶黄烟未传粉子房培养采用两种诱导方法: 一种是直接诱导出苗, 但频率较低。另一种是 先诱导愈伤组织, 然后分化出苗。用两种方法诱导都获得了单倍体植株。对第一种方法直接 诱导出苗进行了胚胎学观察。

关键词

分类号

Study on the Culture of Unpollinated Ovaries of *Nicotiana tabacum* and Its Cytology

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Abstract

Unpollinated ovaries of *N. tabacum* were cultured in vitro and haploid plants were produced. In comparison with diploid plants the haploids are dwarfer with more compact inflorescences and the stigma are higher than the anther.

It was found from chromosome count of root tip cells that most plants were haploids with a few diploids and mixoploids. Embryological observations revealed that the haploid plants were derived from both the immature and mature cells in embryo sac while the diploids were originated from nucellar cells. The cells in embryo sac proliferated by themselves not via mitosis.

Key words

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