

# 春是小麦花粉育株后代数量性状的遗传与变异的初步研究

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**摘要** 关于花粉育株后代的遗传表现已有不少报道, 有些作者的烟草、水稻等花粉育株的研究中指出, 花粉育株后代的遗传性相对稳定[1—3, 6]。胡含等对小麦花粉育株后代作了较系统的研究, 认为花粉育株的株系间表现多样性, 而系内表现相对稳定性[4]。对于花粉育株后代生活力是否衰退则有两种不同看法, 有人在烟草等作物的花粉育株后代中观察到生活力衰退现象[8], 而另一些作者在烟草、水稻、小麦等作物上没有看到生活力衰退现象[4, 5, 7]。我们对普通小麦品种间杂种第二代诱异出的花粉育株后代分穗系种植, 观察了它们的遗传和变异情况。

**关键词**

**分类号**

## Apreliminary Study of Hereditary Varibaility of QuantitativeCharacters from Pollen Plants in Spring Wheat

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### Abstract

This paper deals with the study of the genetic expression of five quantitative characters i.e. pant height, ear length , number of seeds per ear, 1000-seed, weight, seed weight per plant of pollen plants derived from F2 hybrids of Triticum aestivum by anther culture. The results are shown as follows:

1. There is diversity in plant height, ear length, number of seeds per ear, seed weight per plant of pollen plant lines derived from F2 hybrids of spring wheat.
2. The relative genetical uniformity in quantitative characters occurs among the offspring of same pollen plant line. There is greater diversity in quantitative characters of offspring of same pollen plant line derived from F2 hybrid, one parent of this hybrid being an offspring of remote hybridization.
3. No significant difference in vigor for plant height and 1000-seed weight is observed between different generations from the pollen plant of the same line.



### Key words

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