

# 小麦未成熟胚诱生大量绿苗的研究初报

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摘要 根据6个春麦品种及4个冬麦品种的试验结果, 提高诱导小麦未成熟胚绿苗率的关键是: (1)掌握最适宜的接种时间, 并要求幼胚的盾状组织朝上放置。(2)诱导愈伤组织的培养基(A)的最佳配方为MS培养基, 3%蔗糖, 245-T 2mg/l, IAA0.4mg/l. 激动素0.2 mg/l, 琼脂0.75%, PH5.7。主要改动是以245-T代替2, 4-D, 并提高IAA的浓度。新方法的愈伤组织诱导率高达85-100%, 以幼胚为计算基础的绿苗诱导率为84-99%, 每个萌动的幼胚一般可产生健壮的绿苗16-20株。

关键词 [未成熟胚; 245-T; 适宜接种时间](#)

分类号

## A Preliminary Study on the Induction of Green Plantlets from Wheat Immature Embryos

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### Abstract

According to the experiments on induction of green plantlets from wheat immature embryos of six spring and four winter wheat varieties, it could be concluded that: (1) It is very important to inoculate the immature embryos at the suitable developmental stage, for spring wheat 16--18 days, and for winter wheat, 19--22 days after pollination. But for each variety, the critical period is restricted within one day only. In addition, the scutellum should be put upward. (2) For induction of calli MS medium was used with 300 µg/l 245-T, 2 mg/l IAA, 0.4 mg/l Kinetin, 0.2 mg/l agar. Based on the number of immature embryos inoculated, the callus induction rate is 85--100%, and the green plantlet induction rate is 84-99%. In general, 16--20 green plantlets can be obtained from each immature embryo.

Key words [Immature embryos](#) [245-T](#) [Suitable developmental stage](#)

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