

研究论文

普通小麦与六倍体小黑麦杂交不亲和性的研究 I. 杂种的胚胎发育

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摘要 本文对普通小麦与六倍体小黑麦这一组远缘杂交的不亲和性,从胚胎学的角度进行了研究。以六倍体小黑麦作母本,杂种胚胎发育与亲本的差异较小;以普通小麦作母本,杂种胚发育逐渐表现出显著的异常,最终是胚败育,种子失去生活力。通过对胚的切片的解剖观察和胚离体培养的研究,表明在以普通小麦作母本的杂交种子中,胚乳的发育异常发生在胚败育之前,及时将胚取出作离体培养可以发育成苗,因而证明胚的败育是由胚乳的异常发育引起的。本文讨论了这些杂交种子中胚乳发育的不同情况对胚的不同影响。

关键词

分类号

STUDIES ON THE INCOMPATIBILITY OF HYBRIDIZATION BETWEEN TRITICUM AESTIVUM L. AND HEXAPLOID TRITICALE I. THE DEVELOPMENT OF HYBRID EMBRYO

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Abstract The incompatibility of distant crossing between *Triticum aestivum* L. and Hexaploid *Triticale* was studied during the development of hybrid seeds. Through dissecting seeds and cutting sections of embryos for microscopic examination, it was discovered that when compared with the parents, no obvious difference could be observed in the development of hybrids with Hexaploid *Triticale* as the female parent, thus the seeds had vitality. In the reciprocal cross, however, when *Triticum aestivum* L. was used as the female parent...

Key words

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