

园艺—研究报告

芸薹属种与变种间杂交后代回交亲和性的研究

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摘要:

试验分别对“胞质不育大白菜×羽衣甘蓝”和“胞质不育结球甘蓝×羽衣甘蓝”进行了连续三代的回交亲和性的对比研究。结果表明,在“胞质不育大白菜×羽衣甘蓝”的回交进程中,BC2亲和指数为2.45,仍有较强的生殖隔离,但连续回交到BC4时,亲和指数提高到6.17,不亲和性已逐步被克服。在“胞质不育结球甘蓝×羽衣甘蓝”的回交进程中,BC2、BC3和BC4之间的回交亲和指数分别为6.20、6.23和6.27,方差分析表明差异不显著,符合羽衣甘蓝与结球甘蓝是变种间关系。两个回交转育组合比较,发现种间组合“大白菜×羽衣甘蓝”回交到BC4时亲和性已经接近变种间组合“结球甘蓝×羽衣甘蓝”。

关键词: 亲和性

Studies on the Compatibility of Backcrosses of Interspecific and Inter Varietal Hybrids in Brassica

Abstract:

The paper studied on compatibilities of three backcross generations between interspecific hybrid, which was from CMS Brassica camperstris ssp. Pekinensis × Brassica oleracea var. acephala, and inter varietal hybrid, which was from CMS B. oleracea var. capitata × B. oleracea var. acephala. The results showed that there was segregation between B. camperstris ssp. Pekinensis and B. oleracea var. acephala in BC2 with a low compatible index of 2.45, but it had been overcome step by step until BC4 with a high compatible index of 6.17. While, there were no segregations between B. oleracea and B. oleracea var. acephala in BC2, BC3 and BC4 with compatible indexes of 6.20、6.23 and 6.27, respectively. The compatibility of B. camperstris ssp. Pekinensis×B.oleracea var.acephala closed to B.oleracea var. capitata×B.oleracea var.acephala in BC4.

Keywords: compatibility

收稿日期 2010-12-31 修回日期 2011-02-14 网络版发布日期 2011-05-06

DOI:

基金项目:

辽宁省教育厅科学技术研究项目资助

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