

春小麦辐射育种的研究

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摘要 本文报道了从1962年以来利用Co60-r射线处理小麦风干种子, 诱发突变从中选育新品种的研究结果。通过实验, 确定了C060-r射线对小麦进行诱发突变的适宜剂量范围; 肯定了C060-r射线对小麦的诱变作用, 并从诱发突变体中选育春小麦“新曙光一号”和“新曙光二号”等新品种。这些新品种现正在生产上发挥着作用, 其中“新曙光一号”的推广面积已达几十万亩。此外还得到许多优良突变品系和类型, 正在选择鉴定和生产试验。本文以育成的“新曙光一号”为主要材料, 对Co60-r诱发突变的材料选择、后代处理、诱变剂量、诱变效果以及与杂交育种相结合等问题进行了讨论。研究表明: 诱变育种不仅是培育小麦新品种的有效途径之一, 而且也是丰富扩大小麦基因库资源的重要途径。

关键词

分类号

INVESTIGATION ON IRRADIATION BREEDING OF PRING W HEAT

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Abstract

Results of dry seeds of wheat treated with y rays of Co60, induced wh、 t mutants and new varieties selected from the mutants since 1962 were reported. Tho optimum dose of y rays of Co60 for the induced mutation of wheat and the role of y rays of Co60 as a mutagen have been identified. New spring wheat varieties '11sin Shu

Kuang 7" and "Hsin Shu huang 2" were selected from the induced muth.nis, They played an important role in production, for example, "l1sin Shu huang 1"has been grown over hundreds thousands mu (1/15 hectare). A number o# other:)etter lines and types were being under tested

For the induced mutants treated with the y rays of Co60, the selection of inate xials, treatment of progenies, dose of induction, induction eflecls and tho combination of induced mutants with hybrid breeding were discussed.

Induced breeding is not only an effective approach of breeding new wheat varieties. but also an important approach to extend gene pools of wheat

Key words

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