

研究论文

小麦几个“矮源”品种矮秆基因的遗传分析

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摘要 本研究选用矮变1号、冬协2号为主要矮源,通过株高的常规遗传分析、单体分析和赤霉酸(GA₃)鉴定,分析了矮源品种矮秆基因的遗传特点。结果表明:矮变1号受一对不完全显性矮秆基因控制,其株高和胚乳皆对 GA₃不敏感。蚰包的衍生系冬协2号、CA8333和农林10号的衍生系 G-230携带有相同的一对隐性矮秆基因 Rht₂,且位于4D 染色体上,其株高对 GA₃不敏感,但胚乳对 GA₃敏感。花培矮携带两对 GA₃不敏感的隐性矮秆基因,其中一对与冬协2号和G-230的相同。

关键词 [小麦矮秆基因](#), [单体分析](#), [赤霉酸敏感性](#)

分类号

Genetic Analysis of Dwarfing Genes from Several Dwarf Sources in Common Wheat

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Abstract Genetic studies by conventional method, monosomic analysis, and response to gibberellic acid (GA₃) in the seedlings and endosperms were conducted for a preliminary evaluation of several sources of dwarfness in common wheat crosses. The results showed that Ai-bian 1 carried an incomplete dominant dwarfing gene, and its seedling and endosperm were GA₃-insensitive. Dongxie 2 and CA8333 (both are Youbaoderivatives) and G-230 (with Norin 10 pedigree) carried the same recessive dwarfing gene Rht₂, which was located on chro...

Key words [Wheat dwarfing gene](#) [Monosomic analysis](#) [Sensitivity of GA₃](#)

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