

研究论文

玉米抗大斑病遗传及其育种的研究

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摘要 用多基因抗大斑病自交系进行抗性遗传研究指出,双亲病级平均值,和 F_1 病级呈高度显著正相关($r=0.925$),与 F_2 出现高抗株率(%)为极显著负相关($r=-0.914$); F_1 病级和 F_2 高抗株率亦呈极显著负相关($r=-0.766$)。单显性基因(Ht_1)自交系,在不同的遗传背景中,对 F_1 传递的显性抗病程度有不同,在和水平抗性系杂交的 F_2 代中,褪绿斑型植株的抗性在0~2级间发生分离。抗病育种主要是对抗性指标、选用亲本依据及组配方式几方面进行了研究。

关键词

分类号

STUDY ON THE INHERITANCE OF CORN RESISTANCE TO HELMINTHOSPORIUM TURCICUM AND ITS BREEDING

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Abstract These studies were carried out in 1979—1980, in Taiyuan, Shanxi province. The results are summarized as follows: Multigenic resistance to *Helminthosporium turcicum* of most corn inbred lines in hybrid F_1 is partially dominant and a few mediate types express transgressive inheritance. Due to difference of the additive genetic effect in hybrid F_2 , rates of resistance in highly resistant plants segregated are not equal. Even if inbred lines of the same degree of resistance are crossed with the common parent, the rates of ...

Key words

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