

随机交配群体中连锁对世代平均数和方差的影响及其测定¹⁾

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摘要 本文以黄花烟草*N. rustica*的两个品种V₂和V₁₂为材料,人工创造4个随机交配轮次不同的群体,对开花期(FT)和最后株高(FH)两个性状在理论上探讨了随机交配群体中连锁对世代平均数和方差的影响,并用上述材料进行验证。结果指出,在平均数和方差两种水平上都测定出连锁的存在;无论是加性方差还是显性方差,都随着交配轮次的增加而减少,这是相引连锁的表现。本文还讨论了基因连锁强度、基因联合程度对世代平均数和方差的影响。

关键词 [黄花烟草\(N.rustica\)](#),[上位性](#),[连锁](#)

分类号

Effect of Linkage Disequilibrium on Generation Mean and Variance and Its Detection in Random Mating Population

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Abstract

Two varieties V₂ and V₁₂ and their descendents of *Nicotiana rustica* were used to create four artificial different cycles of random mating populations. The effect of linkage disequilibrium on generation mean and variance was explored theoretically and practically on the two of character flowering time (FT) and final height (FH). Results showed that evidence of linkage was found in mean and variance levels and the variance of both additive and dominance became smaller as the cycles of random mating increased. This is the evidence of coupling linkage. The effects of intensity of linkage and the degree of association of genes on generation mean and variance were also discussed in the paper.

Key words [Nicotiana rustica](#) [Epistasis](#) [Linkage](#)

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