

家蚕胚胎期对高温干燥催青耐受性的遗传分析 Genetic Analysis of Endurance of High Temperature and Low Humidity Condition During Embryo Stage in Silkworm

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摘要 本文运用完全双列杂交的方法, 估测了家蚕在胚胎期对高温干燥催青条件耐受性的有关遗传参数。家蚕种对高温干燥催青的耐受性, 在原种间和杂交组合间有明显差异。耐受性是一种遗传性性状, 由遗传基因控制。经估算的广义遗传力大于狭义遗传力。有超显性现象。控制家蚕对高温干燥催青的耐受性的基因数目不少于两个。显性效应大于加性效应。显性效应为非单向性的。显性位点上的基因分布为不对称性。

Abstract: Some genetic parameters about endurance of silkworm to high temperature and low humidity condition during embryo stage were calculated in complete diallel crossing (6×6). There was clear variation in the endurance of both parents and F1 to the incubating condition of high temperature and low humidity. Endurance is a super-dominant character controlled by genes not less than two. The generalized heritability is greater than narrow heritability. The effects of dominant genes were non-unidirectional, with the dominant effect greater than additive effect. The distribution of genes on the location of the dominance is not symmetric.

关键词 家蚕 高温干燥催青 耐受性 遗传 **Key words** [silkworm\(Bombyx mori.\)](#) [incubating under high temperature and low humidity condition](#) [endurance](#) [inheritance](#)

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