

白花授粉作物杂交育种组合潜势的预测和比较¹⁾

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摘要 在黄花烟草*Nicotiana rustica*中,开花期这一性状用 V_5 作亲本可能产生较大变异,无论选择早开花的还是选择迟开花的,都有较大机会得到理想目标株系;对于株高这一性状,含有 V_2 的组合可望有较大机会产生高于标准品种的株系。通过组合间育种潜势的比较,能了解各亲本中基因分布的基本情况,进而进行客观评价并对杂交组合做出取舍。试验证明,用一个组合的早期世代的参数 m 和 D 来预测高世代或纯系的育种潜势是可行的。

关键词 [预测,育种潜势,置信区间](#)

分类号

Predicting and Comparing the Potential of Recombinant Inbreds Obtained from Crosses in Self Fertilization Crop

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Abstract

The recombinant inbreds obtained from a cross between pure breeding lines theoretically show normal distribution which is determined by the parameter m and D and mean and additive variance can be estimated from early generations. The experimental results indicated that in *Nicotiana rustica* crosses containing V_5 showed larger variation of flowering time. And crosses involved V_2 showed great variation of final height. The transgressive potentials were calculated for each cross. Gene distributions were revealed by comparing the potentials between crosses. The confidence intervals were given first time in this paper for transgressive potentials. It is feasible to predict the inbreeding potentials using the parameters obtained from early generations.

Key words [Prediction](#) [Inbreeding potential](#) [Confidence interval](#)

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