关于综合杂种优势指数的研究

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摘要　　本文参照综合选择指数的构成，即通过极大化聚合基因型值H=g'a与选择指数r=pb气的相关而得到的r，对杂种群体的多性状的离中优势值进行分析，得出了评判c* = g*I。中的多个性状的选择指数r*=狌.b，即文中定义的综合杂种优势指数。本文以35个水稻杂交组合为材料测定了8个数量性状的综合杂种优势指数值和亲本间的遗传距离及典范遗传距离。相关分析表明，产量优势同遗传距离及典范遗传距离的相关性达到了显著水平（0.05），而综合杂种优势指数与这两种遗传距离的相关性达到了极显著水平（0.01）0综合杂种优势指数可以作为测定多个数量性状杂种优势的一个新的参数。

关键词　　综合杂种优势指数

分类号

Studies on the Synthetic Heterosis Index

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Abstract

The synthetic heterosis index (1*=p*b) for measuring the aggregate genotype of heterosis （C*=9*a）was constructed by consulting Smith-Hazel's selection index. The synthetic heterosis index can be considered as a new parameter to measure the heterosis of multiple quantitative characters of crops. In order to study the relation between the kmetic divergence and heterosis, the value of the synthetic heterosis index of S quantitative characters with 35 crosses in rice was estimated by using this method. The genetic distance and canonical genetic distance between the two parents in various crosses were measured respectively. The result showed that the correlational significance between the heterosis of seed wt. per plant and the genetic distance .or canonical genetic distance was 5%. But the correlational significance between the synthetic heterosis index and the genetic distance or canonical genetic distance was 1%. Finally the problem about the relation between the heterosis and genetic dive: gence was generally discussed.

Key words　Synthetic heterosis index

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通讯作者

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