

抗稻瘟病体细胞突变体的抗性遗传分析*

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摘要 1.福建农学院作物遗传育种研究所 福州 350002; 2.福州市农业科学研究所 福州以ZA15和ZB11等2个致病小种对6个抗稻瘟病体细胞突变体进行了抗性遗传分析。结果表明, 86-S1、88-86、88-42和88-40等4个突变体对ZA15、ZB11小种的抗性分别由1个显性基因控制, 同时这2个抗性基因还存在紧密的连锁关系。88-127和88-145对ZA15的抗病性受2个重复显性基因控制; 而对ZB11的抗性则分别受2个互补显性基因和1个显性基因控制。等位性测定表明, 86-S1、88-42和88-86等3个突变体具有的抗性基因是等位的, 可能是Pi-xt或与之等位的抗性基因。

关键词 [水稻,稻瘟病,遗传](#)

分类号

Genetic Analysis of Blast Resistance in Somaclonal Mutants of Rice (*Oryza sativa* L.)*

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Abstract

Genetic analysis of six blast resistant somaclonal mutants was carried out for their blast resistance by using varieties Li jiang xin tuan hei gu(LJXT HG)and Bi-jing 7(BJ7)as the blast susceptible parent and two Chinese blast strains, ZA15 and ZB11 as the tester. The results showed that four mutants, 88-42,88-4,88-86 and 86-S1, has one dominant gene for ZA15 and ZB11 races respectively and these genes are closely linked. Mutant 88-127 has two dominant duplicate resistant genes for ZA15 and two dominant complementary resistant genes for ZB11. Mutant 88-145 has two dominant duplicate resistant genes and one dominant gene for ZA15 and ZB11, respectively. Allelism test indicated the genes of mutants 88-86, 88-42 and 86-S1 are allelic and they may be Pi-zt or a new allele at the Pi-zt locus.

Key words [Oryza sativa L.](#) [Pyricularia oryzae Cav.](#) [Inheritance](#)

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