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水稻籼粳杂交F1植株育性与花粉育性的关系

(1.常德师范学院生物系,湖南 常德 415000;2.湖南师范大学生命科学院,湖南 长沙 410075;3.湖南农业大学理学院,湖南 长沙 410000)

Relationship Between F1 Hybrids Fertilities and Pollen Fertilities

(1. Department of Biology, Changde Teachers' College, Changde 415000, Hunan China; 2. College of Life Science, Hunan Normal University, Changsha 410075, Hunan China; 3. College of Plant Science, Hunan Agricultural University, Changsha 410083, Hunan China)

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摘要 以2个广亲和品种(轮回422, 02428)分别与籼、粳稻配组及粳/籼、籼/粳、粳/粳配组, 检测了杂种F1代的结实率及镜检亲本F1代的花粉活性.试验结果表明: 除测49外, 亲本花粉可育性均较高, 杂种F1代的花粉育性因亲本不同而有所差异, 以广亲和品种与籼、粳稻配组所得的杂种F1代的花粉可育性最高; 粳粳杂种F1代的花粉败育率与植株不结实率的相关系数达0.838 0.

关键词: 广亲和品种 结实率 花粉活性 杂种F1代

Abstract: Wide compatibility rice varieties(WCVs) LH422 and 02428, Indica and Japonica rice varieties were used in this test with cross-combination types. The seedset values of F1 hybrids were determined, and the pollen activities of the parent lines and F1 hybrids were also inspected with microscope. The results showed that the pollen fertilities of the parent lines reached a competitive higher level except those of Ce49, but the pollen fertilities of F1 hybrids varied according to their parent lines. The pollen fertilities of F1 hybrids which were cross-combined by WCVs and Indica or Japonica rice varieties were the highest among all the combinations. The correlation coefficient of the pollen sterilities and the unfilled grain rate reached 0.838 0.

Key words: WCVs seedset pollen activities F1 hybrids

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作者简介:)胡一鸿 (1965-), 男, 湖南省冷水江市人, 常德师范学院生物系农艺师, 硕士, 主要从事作物生理生化与育种研究.

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[1] ARAKI H, TOYA K, IKEHASHI H. Role of Wide Compatibility Genes in Hybrid Rice Breeding[A]. Hybrid Rice[C]. Manila, Philippines: IRRI, 1988 79-83.

[2] IKEHASHI H, ZOU Jiang-shi, PAL MOOU, et al. Wide Compatibility Genes and Indica-Japonica Heterosis in Rice for Temperate Countries[A]. Hybrid Rice Technology[C]. Manila, Philippines: IRRI, 1994. 21-23.

[1] 胡一鸿, 姜孝成, 肖辉海, 王智. 粳和粳稻及WCVs配组的杂种优势及育性[J]. 吉首大学学报自然科学版, 2002, 23(1): 80-82.

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通讯地址：湖南省吉首市人民南路120号《吉首大学学报》编辑部 邮编：416000

电话传真：0743-8563684 E-mail：xb8563684@163.com 办公QQ：1944107525

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