

研究论文

# 粳稻恢复系宁恢3-2育性恢复力的遗传

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**摘要** 两套粳稻雄性不育系(A)及其保持系(B)分别与宁恢3-2(R)杂交、回交、自交、获得两个组合的 F<sub>1</sub>(A/R)、B<sub>2</sub>(A//A/R)、B<sub>2</sub>' (A//B/R)、F<sub>2</sub>和 F<sub>3</sub>,以花粉育性和种子育性作为恢复度指标,研究宁恢3-2育性恢复力的遗传。结果表明,BT 六千辛 A 和 L 平壤3号 A的花粉以染败为主,在光学显微镜下不易区分分离世代植株中可育和不育花粉,故不宜用花粉育性作为恢复度指标进行遗传分析。以种子育性为指标,发现两个不育系是配子体不育类型,宁恢3-2对它们的育性恢复力是由一对显性恢复基因控制的。

**关键词** [粳稻恢复系](#) [育性恢复力](#) [遗传](#)

分类号

## Inheritance of Fertility Restoration Ability of Restorer Line Ninghui 3-2 in Sinica Rice

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**Abstract** The inheritance of fertility restoration ability of Ninghui 3-2, a restorer line for CMS in sinica rice, was studied using pollen fertility and spikelet fertility as indicators of restoring degree. Two sets of male sterile lines (A) and their maintainer lines (B) were crossed with Ninghui 3-2 (R) respectively. Then, by backcrossing and selfing, the following generations: F<sub>1</sub>(A/R), B<sub>2</sub>(A//A/R), B<sub>2</sub>'(A//B/R), F<sub>2</sub>, F<sub>3</sub> were obtained in 2 combinations. As shown by the results, the pollen of BT-Liuqianxin A and L-Pingrang 3 A were main...

**Key words** [Restorer line for CMS in Oryza sativa subsp. sinica](#) [Fertility restoration ability](#) [Inheritance](#)

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