

- [8] 广西壮族自治区农业科学院水稻研究室: 水稻辐射育成初报, 《广西农业科学》, 1976年第1期, P31—33。
- [9] 浙江农业大学农学系: 《科技简报》(浙江情报所), 1971年, 第24期, 第5页。

## A Preliminary Study on Optimum Doses for Irradiation Breeding of Rice

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### Abstract

In the present paper, the radio-sensitivities on  $\gamma$ -ray of 19 varieties of various type especially with the purpose of finding their optimum irradiation doses for irradiation breeding were investigated by observing the  $r_1$  generation cell and growing effect and the  $r_2$  generation mutation effect it was found that the round-grained nonglutinous rice is more sensitive than the long-grained, and the early long-grained is more sensitive than the middle-season one. Their  $LD_{50}$  are  $1.0-1.5 \times 10^4 R$ ,  $1.5-2.0 \times 10^4 R$ , and  $2.3-3.7 \times 10^4 R$  respectively.

According to count and research on the generation mutation frequency and character of Nanjing No11 and others, the optimum doses of these varieties are less than their  $LD_{50}$  respectively, depend on the various aims for seed selection by human.

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