

# **DEVELOPMENT OF NEW AS996 RICE VARIETIES WITH GOOD QUALITY VIA MUTATION BY IRRADIATION**

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## **Summary**

Developing amount of M1, plants of generation after M1, M2, M3, M4, and using M5 to check DNA. Screening method developed depending on agronomic traits of yield components. Most experiments were done at CLRRI. Based on phenotype of mutant of AS996 made with 5 different level of irradiation of 10, 20, 30, 40 and 50 kr. Result recorded heritance interval determined based on corelation between yield and yield component of rice varieties. Most rice varieties recorded lines from ASS996 with high yield both 5 kr. AS996 variety had chalkiness rate was improved more the original. Besides, the mutant lines from AS996 recored improvement of amylose content. Combine yield trait was the rice varieties had good quality will help to develop mutation if the lines are stable in next generation.

**Keyword:** *Amylose gamma beam, rice, low phytic acid, quality.*