

MUTATION BREEDING FOR MUNGBEAN  
YELLOW MOSAIC VIRUS RESISTANCE

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A recommended variety MI - 4 and a moderately susceptible accession No: 4 to Mungbean Yellow Mosaic Virus (MYMV) were irradiated with 30, 60 and 90 Krad doses of 60 CO gamma rays with the idea of creating genetic variability in reaction to MYMV since no proper source of resistance has been found in the germplasm. Two hundred grams of seeds from each variety were irradiated per treatment. The first formed five pods of each surviving MI plants were harvested and bulked per treatment. Selections for field resistance to MYMV were done under heavy inoculum pressure by using the infect a row system. Preliminary testing of promising mutants was carried out in M7, M8 and M9 generations using the infect a row system with a highly susceptible cultivar H 1 01. More resistant mutants were selected from moderately susceptible cultivar No - 4 than in susceptible cultivar MI - 4. The origins of the fifteen selections which entered preliminary trials are as follows - 11 entries from No: 4 variety (four each from 30 and 60 Krad treatment and three from 90 Krad treatment) Two from 30 Krad treatment MI-4 and one each from 60 and 90 Krad treatments of that variety.

10th Dec. 1987 (Thursday) 02.15 p.m. - 02.30 p.m.