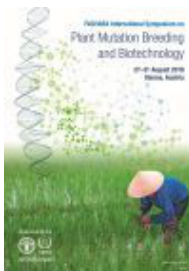


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INDUCED MUTAGENESIS FOR THE IMPROVEMENT OF GREEN SHINY COLOUR MUNGBEAN VARIETY

Mutations were induced in mungbean line MB-149 (susceptible to MYMV) varieties using gamma rays as mutagen. Selection studies were conducted to improve the yield and to generate genetic variability in different quantitative traits viz., earliness, bold seeded, pods per plant and seed yield. The mutant MBM-07 was derived from parent MB-149 found to be promising for several desirable characters like earliness, bold seeded, higher yield, dwarf plant type, shiny green seed coat colour and tolerant to mungbean yellow mosaic virus (MYMV). The distinct features of the selected mutant MBM-07 are medium plant height (35-40 cm), early maturing (64-67 days), deep green leaf colour, 23% protein content and average seed yield is 1.8 tha⁻¹. This mutant was released as 'Binamoog-8' for commercial cultivation in Bangladesh. Farmer's in Bangladesh widely adopted and integrated this variety in their cropping system.

Country or International Organization

Bangladesh

Primary author: Dr BEGUM, Shamsun Nahar (Bangladesh Institute of Nuclear Agriculture)

Co-authors: Dr ISLAM, Mirza Mofazzal (Bangladesh Institute of Nuclear Agriculture); Mr GUPTA, Rigyan (Bangladesh Institute of Nuclear Agriculture)

Presenters: Mr GUPTA, Rigyan (Bangladesh Institute of Nuclear Agriculture); Dr BEGUM, Shamsun Nahar (Bangladesh Institute of Nuclear Agriculture)

Track Classification: Mutation breeding for adaptation to climate change in seed propagated crops