

Title Radiation induced variability of seed storage proteins in soybean [*Glycine max* (L.) Merrill]
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Abstract

Soybean variety VLSoy-2 was irradiated with 250 Gy gamma rays to induce variability. A large number of mutants affecting morphological characters were identified and characterized. True breeding mutants obtained were used for studying the variation in seed storage proteins. The mutants M-231, M-17 and M-291 lacked the A₃ subunit of glycinin (11S) protein. Among the three, two mutants M-231 and M-17 were also characterized by the lack of α and α' -subunits of β -conglycinin (7S). In addition, the mutant M-291 also showed low levels of trypsin inhibitor activity (TIA) and low levels of α and α' -subunits of 7S protein.