



Results regarding the using of mutagenesis in grain millet (*Panicum miliaceum* L.) breeding meant for successive crops

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The progressive doses of gamma rays (Cobalt) about 10,20, 30 and 40 Kr determine significant changes, such as: high of plant decreases with 1,3-25,6 cm, the length of panicle decreases with 6,3-18,0 cm, decreasing of seeds number in a panicle with 106-399, of the seeds weight in a panicle with 0,57- 1,98 g, while the weight of a thousand grains remain the same or is in a small increasing. These kinds of decreasing are very big at annual treatments with the same doses, then they are reduced at 2-3 years intermittent application. All these conclusions can be and were used with positive results in obtaining of some valuable millet (*Panicum miliaceum* L.) mutants meant for successive crops.