



The study of the mutagen effect of some chemical substances upon some lentil (*lens esculenta moench.*) varieties in m3 generation

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The dry seeds of Anicia, Bestnaia, Gornostepnaia and Oana (*Lens esculenta* ssp. *microsperma*) varieties were treated with N-ethyl-N-nitrosourea (ENU), 0.01%, 0.03% and 0.05%; ethylmethanesulphate (EMS), 0.10%, 0.20%, 0.40% and sodium azyde, 0.005%, 0.02%, 0.04% in 2000 (M1 generation). In M2 generation (2001) were isolated valuable mutants under practical and theoretical aspects, from each varieties, and were studied in the selection field in 2002 (M3 generation). In M3 generation we focused our studies upon the principal hereditary characters at 44 mutants lines extract from the four varieties.