



## Researches regarding the mutagen effect of some chemicals in m2 generation on several pod beans (*Phaseolus vulgaris* var. *nanus*) varieties

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Seeds from 5 pod beans varieties (Galbenă de Moldova, Atlantic, Cape, Valja and Oxy-Amidor) were treated with 3 mutagen substances: colchicine (0.10%, 0.30% and 0.50%), epichlorhydrine (0.10%, 0.25% and 0.50%) and N methyl-N-nitroso-p-toluolsulfonamide (0.05%, 0.10% and 0.25%). In M1 and M2 generations the mutagen effect of these 3 substances was different, depending of variety and concentration. The mutagen substances generated a big variability of the morph-physiologic characters inside of these 5 varieties, so we can extract some valuable elites in M2 generation, which will be tested in the following generations.