Cercetări privind determinismul genetic al numărului de seminţe pe plantă şi greutatea seminţelor pe plantă la bob (Vicia faba L.)

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This piece of work presents the results obtained through crossing of the two cultivars and four inbred lines (Cluj 84, Sv. 110-93, Sv. 165-92M, Sv. 177-92M , Minica and Sv. 13-93), in the dialel system by type p (p-1), referring to the hereditary remittance mechanism of the seeds number/plant and weight seeds/plant at faba bean (Vicia faba L.). The obtained results through the analysis of the genetic effects in the hereditary remittance mechanism of the seeds number/plant and weight seeds/plant at faba bean, emphasized that the genetic control is made by the additive genes action, completed by the non additive genes actions and the weight seeds/plant is determined in a minor manner by the action of genes with cytoplasmatic localization. The genetic effects quantification of the parental forms, especially additive genes, emphasized that the genotypes Sv. 165-92M , Cluj 84 and Minica have the biggest positive values for seeds number/plant and genotypes Sv. 110-93 , Sv. 165-92M and Minica for weight seeds/plant. The participation rate of the genetic interactions between nucleus and cytoplasm have small and insignificant values for both the studied traits. Through the selection work the breeding chances of the two studied characters could have positive results, because of the main role of the additive gene action.