

**ESTIMATION OF GENETIC PARAMETERS FOR  
DIFFERENT LEVELS OF SIGNIFICANCE IN SELECTION  
ASSISTED BY MARKERS**

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- **ABSTRACT:** *It was the main objective to evaluate setting of favorable alleles, unfavorable alleles and of the molecular markers, and its impact on the endogamy coefficient and the selection limit, by using different significance levels in population submitted to the assisted selection by molecular markers, during 20 consecutive generations. The Genesys program (Genetic System) was used for the genome simulation and for the base and initial population. The quantitative characteristic under selection showed heritability of 0,10. The adopted significance levels were of 1%, 5%, 10% e 20%, totalizing four selection processes from the initial available population. The selective processes that adopted lower magnitude levels (1% e 5%) resulted in a higher allele setting tax and of genetic markers because of its higher precision to detect the QTL (Quantitative Trait Loci), resulting, consequently, in higher endogamy levels and selection limits.*
- **KEYWORDS:** *Setting of alleles; molecular markers; significance levels; QTL.*

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