

## THE INFLUENCE OF GENE POLYMORPHISM OF GROWTH HORMONE ON REPRODUCTION TRAITS IN BULLS

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**Summary.** Growth hormone have influence on animal growth, development, reproduction traits and production. The aim of this study was to estimate the influence of gene polymorphism of growth hormone on reproduction traits in bulls by PCR-RFLP method. Digestion with restriction enzyme of 282 bp growth hormone gene region produced two fragments for alleles A and B. After investigation of 33 bulls was estimated, that A allele has 0,682 frequency and B allele – 0,318 frequency. It was shown that 54,5 % of tested animal group had AA genotype, 27,3 % - AB genotype and 18,2 % - BB genotype, respectively. Bovine growth hormone B allele was associated with improved reproduction traits of bulls.

**Key words:** growth hormone gene, reproduction, PCR – RFLP, cattle, polymorphism.