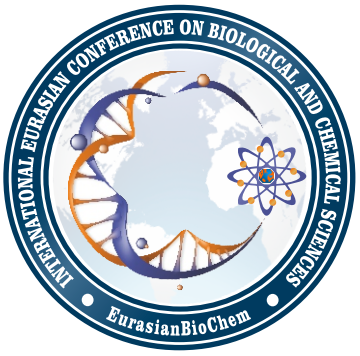


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1. ORAL PRESENTATIONS

1.1. ABSTRACTS

➢ *ORAL PRESENTATION*

Investigation of relations between casein genes polymorphism and milk component by the molecular method (PCR-RFLP) in Holstein cattle

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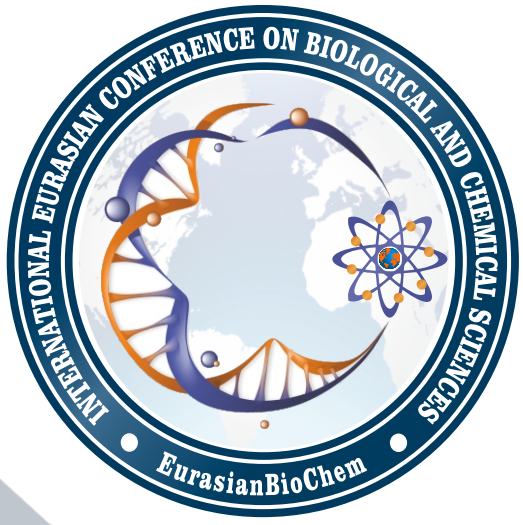
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This study was summarized from the first author's PhD thesis.

Abstract

The objective of this study was to investigate of relations between αS_1-casein (CSN1S1), αS_2-casein (CSN1S2), β-casein (CSN2) and κ-casein (CSN3) gene polymorphism and milk component by PCR-RFLP method in Holstein Cattle raised in three different regions. In addition, genotype-environment interaction was determined. The material of the study consisted of 519 Holstein cows that managed under intensive systems in Konya, Manisa, and Diyarbakir provinces, in Turkey. Blood and milk samples of 519 cows were used in the study. The genetic structures of bovine CSN1S1, CSN1S2, CSN2 and CSN3 genes were examined by PCR-RFLP in three Holstein Cattle populations. General linear model (GLM) was applied to analyze association between genotypic and phenotypic characteristics. Results indicated that milk solids-non-fat, protein and lactose percentages was significantly affected by the genetic variants of the CSN2 gene of cow in general population. Also, milk fat percentage was significantly affected by the genetic variants of the CSN1S1 and CSN3 genes of cows in Konya province. As a result; after increasing the number of studies that investigated the relationship between casein genes and milk characteristics and defined the genetic variation of the CSN1S1, CSN2, and CSN3 genes of Holstein cattle, these genes can be used as a significant genetic marker in early selection.

Keywords: CSN1S1, CSN1S2, CSN2, CSN3, PCR-RFLP, Holstein Cattle.



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