

## The Haemoglobin, Transferrin, Ceruloplasmin and Glutathione Polymorphism of Native Goat Breeds of Turkey, II-Kilis and Honamli

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**Abstract :** In this research, Kilis and Honamli goats are used, which are specific local genetic resources of Turkey. The herds were independent, but they had similar care and nutrition circumstances. From each breed 30 samples were taken, in all 120 samples were collected. Erythrocyte, all blood and serum samples were used for hemoglobine (Hb), glutathione (GSH) and Tf with Cp analysis, respectively. In the analysis of this samples, Hb and Tf bands were determined by electrophoresis. However, Cp and GSH levels were analyzed by the spectrophotometer. Three Hb phenotypes (AA, BB, AB) and Six Tf phenotypes (AA, AB, AC, BB, BC, CC) were determined in this study. In addition, both the observed and the expected values of polymorphic characteristic for 2 characters were presented according to the Hardy-Weinberg Equilibrium (HWE). Cp levels were detected as  $0.822 \pm 0.055$  mg/dl and  $1.793 \pm 0.109$  mg/dl in Kilis and Honamli herds, respectively. GSH levels were detected as,  $42,486 \pm 1,034$  mg/dl and  $33.515 \pm 0.345$  mg/dl in these breeds, respectively,. On the other hand, the high and low GSH levels (GSHH and GSHh) of herds were presented.

**Keywords :** electrophoresis, gene resource, goat, spectrophotometer

**Conference Title :** ICSRD 2020 : International Conference on Scientific Research and Development

**Conference Location :** Chicago, United States

**Conference Dates :** December 12-13, 2020