

# Genetic analysis of biometric traits in Moghani sheep

Dariush Ghahramani Kalishomi\*, Navid Ghavi Hosseinzadeh,

The aim of this study was to analyze of the biometric traits in Moghani sheep genetically. This study investigates the genetic and environmental parameters of biometric traits in Moghani sheep by data and new methods. The related data of Moghani sheep includes recorded various information for each animal with files related to their genealogy of research stations and breeding of Moghani sheep. The required Information for this study include full information such as Family tree, lamb sex, date of birth, date of death, age of ewe at the time of birth, year of birth, type of birth and weight of the body. First, different information edits by using of the different parts of software such as Excel, Access and FoxPro. Edit and preparing the file of family Tree using the software CFC is done. The next step was used to determine of the fixed effects on value in statistical model for each of the biometric characteristics of the GLM procedure of SAS software. Estimation of random effects, including the effects of direct additive genetic, maternal additive genetic effects and the shared maternal by using the TM software and Gibbs sampling was carried. The results showed that there is a possibility of exerting of direct ion on these traits.

**Keywords :** genetic analysis, biometric traits, Moghani sheep, Gibbs sampling.

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