

ABSTRACT

KARYOTYPE ANALYSIS OF *Chorthippus (Glyptobothrus) bornhalmi* Harz, 1971 COLLECTED IN THE AYDIN

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Morphological and anatomical features in addition karyological features have been used in living classification. In this study, chromosome number and morphology of *Chorthippus (Glyptobothrus) bornhalmi* was determined. Collected grasshoppers samples were brought to laboratory in convenient conditions, their testicles were extracted, pieces from testicles were got after the colchisin application. After the convenient processes, according to paste preparation procedure chromosome preparations were prepared. Prepared preparations were investigated under the microscope, photographs of convenient phases were taken and karyotype of species was determined. After the studies, chromosome number of species was determined $2n=17(XO)$. Three pairs of autosome chromosomes are submetacentric, five pairs and X chromosome were determined acrocentric too. Mean chiasma frequency in 5 individuals as a result of counts was found 15,36.

Key Words: *Chorthippus (Glyptobothrus) bornhalmi*, Orthoptera, Karyotype, Chromosome, Chiasma Frequency