

Turkish Journal of Zoology

Turkish Journal
of
Zoology


Competition Between Strains With Autosomal and Standard Sex-determining Mechanisms in the Housefly (Muscidae)

Şükran ÇAKIR

Ankara University, Faculty of Veterinary (Genetics), 06110 Ankara-TURKEY

Aykut KENCE

Middle East Technical University, Department of Biology, 06531 Ankara-TURKEY

 [Keywords](#)
[Authors](#)



zool@tubitak.gov.tr

[Scientific Journals Home](#)
[Page](#)

Abstract: Experimental cages started with a mixture of flies at three different ratios (1:9, 5:5, 9:1) from populations having heterosomal and autosomal sex-determining mechanisms were cytogenetically examined over six generations at two different temperatures (25 °C and 35 °C). In general, there was an increase in the frequency of XX males in all competitive population cages. Abnormal testes and intersex appearance, frequent X chromosome aneuploidies and deviation from a 1:1 sex ratio were observed.

Key Words: *Musca domestica* L. Competition, cytogenetics, autosomal sex-determining mechanism, evolution.

Turk. J. Zool., **23**, (1999), 79-84.

Full text: [pdf](#)

Other articles published in the same issue: [Turk. J. Zool., vol.23, iss.1.](#)