

Article In Journal **Document Title :**

*Fitness of the mutants Drosophila melanogaster b, cn and vg*

**Abstract :** Traditional and well applied in genetics methods of revealing main components of fitness *D. melanogaster*, in particular fertility, survival in extreme conditions (high temperature exposure, starvation), life expectancy etc are used. Beside above-mentioned physiological components of fitness genetic (defining crossing over frequency) and genetic –biochemical (defining functional state of gene-enzymatic system Adh) characteristics of fitness are also applied. Crossing over frequency, activity, and thermal resistance have been defined with the help of common methods.

It has been proved that saturation of the genotype of mutant *b cn vg* with the genes of flies C-S or replacement of its chromosome1 into similar chromosome of flies C-S is accompanied by crossing over frequency increasing on the site *b - cn - vg*. While crossing over frequency increases at the site *b - cn* after artificial changes of the genotype but does not change at the site *cn - vg*.

**Publisher :** Odessa National University

**ISSN :** 1990-7508

**Journal Name :** Visnik

**Volume :** 7