

In this virtual lab we will cross various fruit flies to see what phenotypes are present in the F1 and F2 generation. Using the data from these crosses, we will make a hypothesis regarding the genotypes of the parental (P) generation and test the hypothesis using a chi square analysis.



#### Background Information

*Drosophila melanogaster* is a fruit fly, a little insect about 3mm long, of the kind that accumulates around spoiled fruit. It is also one of the most valuable of organisms in biological research, particularly in genetics and developmental biology. *Drosophila* has been used as a model organism for research for almost a century, mainly because it is practical: it's a small animal, with a short life cycle of just two weeks, and is cheap and easy to keep large numbers. Mutant flies, with defects in any of several thousand genes are available, and the entire genome has recently been sequenced.

#### Terminology

Wild-type - flies that have the "normal" characteristics, red eyes, normal length wing and brown bodies.

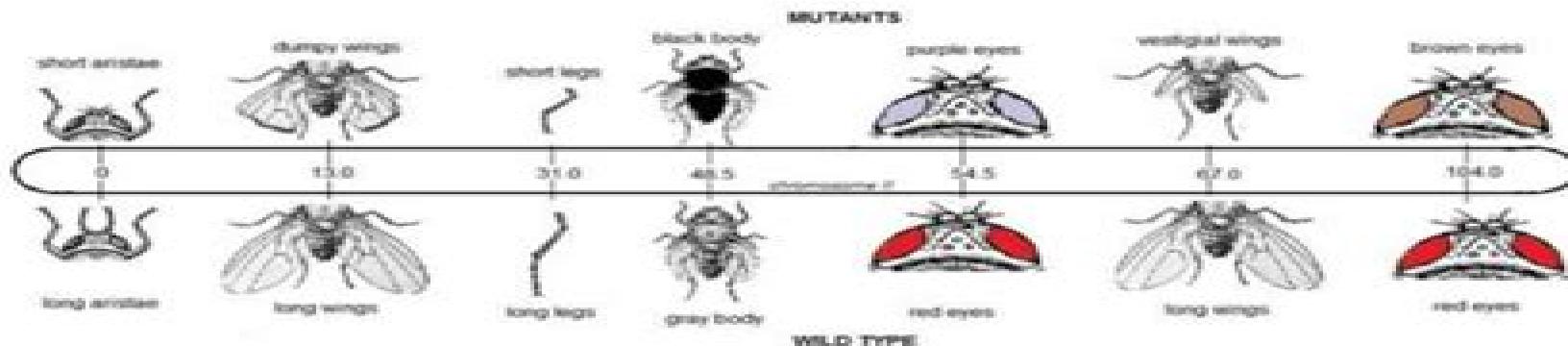
Mutant flies - any variation from the wild type. Mutant alleles can be carried on autosomes or sex chromosomes.

#### Genetic Notation

Mutant flies are given names that generally denote the type of mutation the fly exhibits. For example, the mutant "ebony" has a much darker body than the wild type fly. Each mutation is also given a letter code. Thus, in the case of ebony, the code is a lower case e. The wild type fly is denoted by a superscript + over the mutant letter code. For example, e+ denotes a wild type fly for the ebony body trait - meaning it has normal body color (not ebony). The above description is for a gene located on an autosome (a non-sex chromosome). Of course, fruit flies also have sex chromosomes and they contain a subset of genes as well. The genotypic notation for a mutant gene for white eye color on the X chromosome would look like:

$X^{+} X^{+}$  = white-eyed female  
 $X^{+} Y$  = white-eyed male

$X^{++} X^{+}$  = wild type heterozygote female  
 $X^{++} Y$  = wild type male



# Virtual Fly Lab Answer Key

**LL Leslie**

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