

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.

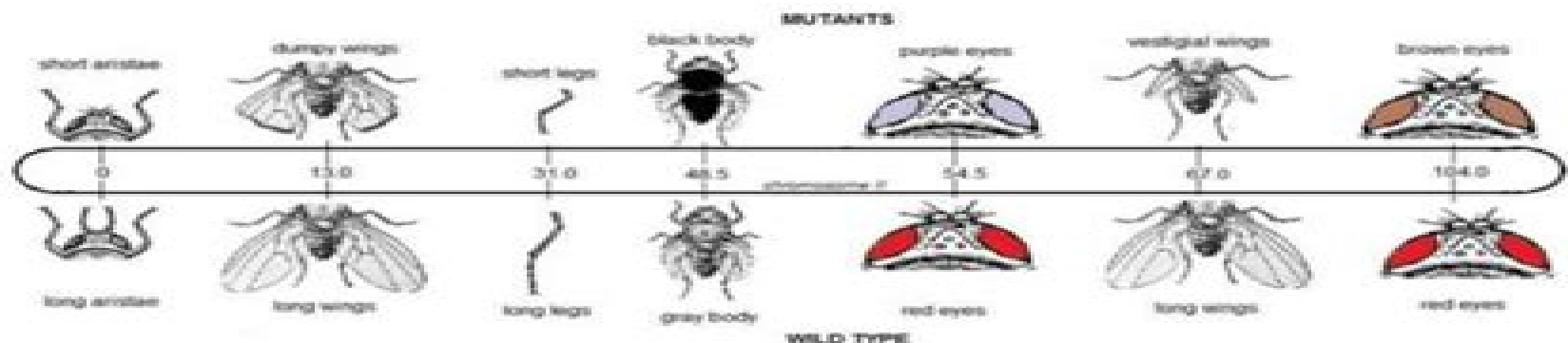
Mutant flies - any variation from the wild type. Mutant alleles can be carried on autosomes or sex chromosomes.

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^w X^w = white-eyed female
X^w Y = white-eyed male

X⁺⁺ X⁺ = wild type heterozygote female
X⁺⁺ Y = wild type male



Virtual Fly Lab Answer Key

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Fundamentals of Genetics Peter J. Russell, 2000 Fundamentals of Genetics Second Edition provides a concise easy to read introduction to genetics Based on the author s best selling Genetics Fifth Edition the text is carefully crafted to present full coverage of the subject without overwhelming students with details and complex explanations A friendly writing style complements Russell s effective step by step problem solving approach which guides students to an understanding of principles and concepts Fundamentals of Genetics Second Edition is particularly ideal for students who have a limited background in biology or chemistry or for briefer courses in which there is little time for advanced topics A greatly expanded supplements package now accompanies the text **Light Up Your Child's Mind** Joseph S. Renzulli, Sally M.

Reis, 2009-08-11 Based on the renowned Renzulli Method which has been adopted in schools all over the country Light Up Your Child s Mind presents a practical program to help children fire up a love of learning to last a lifetime World renowned experts Drs Renzulli and Reis illustrate the crucial role parents can play in their children s development and address how they can work with teachers to enhance their children s education They uncover the hidden potential of daydreamers rebels and one track minds arguing that gifted behavior basic smarts high levels of task commitment and creativity can be fostered in bright children even unmotivated ones Step by step Light Up Your Child s Mind will show parents how to set their kids on the path to a rewarding future *Cyberedge Journal* ,1994 Music Technology Julio d' Escrivan Rincón, Julio

d'Escriván, 2012 An engaging and user friendly introduction to the world of music technology perfect for music students with little technical background Science Images and Popular Images of the Sciences Peter Weingart, Bernd

Huppauf, 2012-10-12 What is a popular image of science and where does it come from Little is known about the formation of science images and their transformation into popular images of science In this anthology contributions from two areas of expertise image theory and history and the sociology of the sciences explore techniques of constructing science images and transforming them into highly ambivalent images that represent the sciences The essays most of them with illustrations present evidence that popular images of the sciences are based upon abstract theories rather than facts and equally images of scientists are stimulated by imagination rather than historical knowledge **Computerworld** ,1995-09-11 For more than

40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network It's a Question of Space Clayton C.

Anderson, 2018-07-01 Having spent over 150 days on his first tour of the International Space Station it s safe to say that Clayton C Anderson knows a thing or two about space travel Now retired and affectionately known as Astro Clay by his many admirers on social media and the Internet Anderson has fielded thousands of questions over the years about spaceflight living in space and what it s like to be an astronaut Written with honesty and razor sharp wit It s a Question of Space gathers

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Successful Meetings, 2000 **Macworld**, 1993-05 **Computer Confluence** George Beekman, 1999

Documentation Abstracts, 1998 The Software Encyclopedia 2001, 2001 *Endeavors*, 2004 **International**

Aerospace Abstracts, 1999 **CIO.**, 1999 **Design News**, 1997 **The Complete Sourcebook on Children's**

Software Children's Software Review, 2001-03 5000 critical reviews of CDs, videogames, smart toys for ages 1 to 16

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