

AP Biology Lab 7: Genetics of *Drosophila*

Background

Imagine that you have decided to devote your career to genetic research. You want to find mutants with interesting characteristics and study their inheritance. What organism should you study? It would be best to choose something that is small, easy to keep, has a short generation time, and produces many offspring. Scientists have adopted certain organisms as good choices for studying basic processes common to many life forms. These are often called "model organisms." The fruit fly *Drosophila melanogaster* is an excellent model organism for genetics research. A scientist can keep hundreds or thousands of them in a jar and millions in a single room. They are hardy and have simple food requirements. *Drosophila* completes its life cycle in about two weeks at room temperature and produces large numbers of offspring. It is easy to immobilize them for examination and sorting, and they cannot hurt you. Fruit flies have only four pairs of chromosomes, which can be readily observed in cells of the salivary glands. One pair of these chromosomes is not completely homologous; these two are designated X and Y. These are the sex chromosomes: females have two X chromosomes and males have an X and a Y. The other three pair of chromosomes are autosomes. Genes located on the portion of the X chromosome that has no counterpart on the Y are said to be sex-linked or X-linked.

Research with *Drosophila* helped to establish facts we now take for granted, for example, that genes are located on chromosomes and that genes on the same chromosome are inherited together unless they are separated by crossing over. The phenotypes that are most frequently found in natural populations are designated as wild type. Phenotypes that differ from the wild type are mutants. Over the years, scientists working with *Drosophila* have published their results and saved stocks of mutants they have isolated. As a result, there is a wealth of information in the scientific literature about *Drosophila* genes and genetics. Furthermore, stock cultures of hundreds of different genetically pure strains bearing various mutations are available.

Drosophila develops by complete metamorphosis. Figure 1 provides a summation of the *Drosophila* life cycle.

Introduction:

This genetics investigation will run for several weeks. You will begin by observing the P generation of fruit flies. You will learn to distinguish between males and females and observe the wild type as well as three mutant phenotypes. The mutants will only differ from the wild types by one character.

Next you will observe the F1 generation offspring. These have just hatched and must be scored within 20 days after arrival. You will be responsible to accurately record the phenotypic numbers and determine whether if the trait is sex linked or autosomal.

Genetic information to keep in mind:

- Which allele is dominant or recessive?
- Is it a monohybrid or dihybrid?
- Is it sex linked?
- What can I predict for the F2 generation?

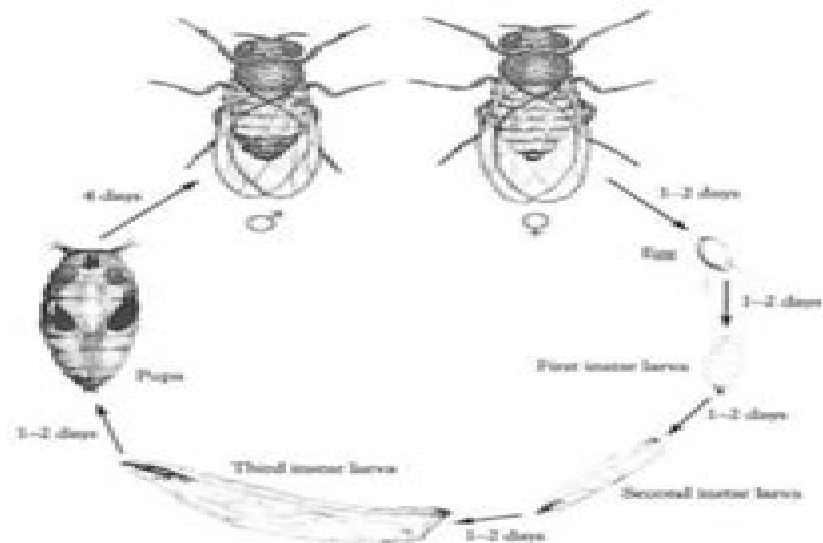


Figure 1. *Drosophila* life cycle

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SJ Ball



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Table of Contents Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers

1. Understanding the eBook Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - The Rise of Digital Reading Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Personalized Recommendations
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers User Reviews and Ratings
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers and Bestseller Lists
5. Accessing Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers Free and Paid eBooks
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers Public Domain eBooks
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers eBook Subscription Services
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers Budget-Friendly Options
6. Navigating Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers Compatibility with Devices
 - Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Highlighting and Note-Taking Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Interactive Elements Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
8. Staying Engaged with Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
9. Balancing eBooks and Physical Books Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Setting Reading Goals Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Fact-Checking eBook Content of Ap Biology Lab 7 Genetics Of Drosophila Virtual Version Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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