

AP Biology Lab 7

GENETICS OF ORGANISMS

OVERVIEW

In this lab you will use living organisms to do genetic crosses. You will learn how to collect and manipulate the organisms, collect data from F_1 and F_2 generations, and analyze the results from a monohybrid, dihybrid or sex-linked cross. The procedures that follow apply to fruit flies.

OBJECTIVES

Before doing this lab you should understand:

- Chi-square analysis of data, and
- the life cycle of diploid organisms useful in genetic studies.

After doing this lab you should be able to:

- investigate the independent assortment of two genes and determine whether the two genes are autosomal or sex-linked using a multigenerational experiment, and
- analyze the data from your genetic crosses using chi-square analysis techniques.

INTRODUCTION

Drosophila melanogaster, the fruit fly, is an excellent organism for genetics studies because it has simple food requirements, occupies little space, is handy, completes its life cycle in about 12 days at room temperature, produces large amounts of off spring, can be immobilized readily for examination and sorting, and has many types of hereditary variations that can be observed with low-power magnification. *Drosophila* has a small number of chromosomes (four pairs). These chromosomes are easily located in the salivary gland cells. *Drosophila* exists in stock cultures that can be readily obtained from several sources. Much research about the genetics of *Drosophila* during the last 50 years has resulted in a wealth of reference literature and a knowledge about hundreds of its genes.

The Life Cycle of *Drosophila*

The Eggs. The eggs are small, oval shaped, and have two filaments at one end. They are usually laid on the surface of the culture medium and, with practice, can be seen with the naked eye. The eggs hatch into larvae after about one day.

The Larval Stage. The wormlike larvae eats almost continuously, and its black mouth parts can easily be seen moving back and forth even when the larva itself is less distinct. Larvae tunnel through the culture medium while eating; thus, channels are a good indication of the successful growth of a culture. The larva sheds its skin twice as it increases in size. In the last three larval stages, the cells of the salivary glands contain giant chromosomes, which may be seen readily under low-power magnification after proper staining.

The Pupal Stage. When a mature larva in a lab culture is about to become a pupa, it usually climbs up the side of a culture bottle or onto the strip provided in the culture bottle. The last larval covering then becomes harder and darker, forming the pupal case. Through this case the later stages of metamorphosis to an adult fly can be observed. In particular, the eyes, the wings, and the legs become readily visible.

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Table of Contents Lab Seven Genetics Of Organisms Teacher Guide

1. Understanding the eBook Lab Seven Genetics Of Organisms Teacher Guide
 - The Rise of Digital Reading Lab Seven Genetics Of Organisms Teacher Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Seven Genetics Of Organisms Teacher Guide
 - 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 Lab Seven Genetics Of Organisms Teacher Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Seven Genetics Of Organisms Teacher Guide
 - Personalized Recommendations
 - Lab Seven Genetics Of Organisms Teacher Guide User Reviews and Ratings
 - Lab Seven Genetics Of Organisms Teacher Guide and Bestseller Lists
5. Accessing Lab Seven Genetics Of Organisms Teacher Guide Free and Paid eBooks
 - Lab Seven Genetics Of Organisms Teacher Guide Public Domain eBooks
 - Lab Seven Genetics Of Organisms Teacher Guide eBook Subscription Services
 - Lab Seven Genetics Of Organisms Teacher Guide Budget-Friendly Options

6. Navigating Lab Seven Genetics Of Organisms Teacher Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Seven Genetics Of Organisms Teacher Guide Compatibility with Devices
 - Lab Seven Genetics Of Organisms Teacher Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Seven Genetics Of Organisms Teacher Guide
 - Highlighting and Note-Taking Lab Seven Genetics Of Organisms Teacher Guide
 - Interactive Elements Lab Seven Genetics Of Organisms Teacher Guide
8. Staying Engaged with Lab Seven Genetics Of Organisms Teacher Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Seven Genetics Of Organisms Teacher Guide
9. Balancing eBooks and Physical Books Lab Seven Genetics Of Organisms Teacher Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Seven Genetics Of Organisms Teacher Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Seven Genetics Of Organisms Teacher Guide
 - Setting Reading Goals Lab Seven Genetics Of Organisms Teacher Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Seven Genetics Of Organisms Teacher Guide
 - Fact-Checking eBook Content of Lab Seven Genetics Of Organisms Teacher Guide
 - 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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