

## AP Biology Laboratory 8

# Population Genetics and Evolution

### Objectives

- Estimate the frequency of alleles in a population using Hardy-Weinberg equations.
- Demonstrate that allele frequencies can change in a population over time.

### Background

In the early 1900s, many biologists attempted to explain evolution in terms of the emerging science of genetics. Because the  $F_2$  of monohybrid cross show a 3:1 ratio of dominant to recessive phenotypes many assumed that populations would evolve toward similar ratios of phenotypes. Two mathematicians, Godfrey Hardy and Wilhelm Weinberg, realized that the frequency of alleles in a population was independent of the alleles' inheritance pattern from parents to offspring. They postulated an ideal breeding population with the following properties:

1. Population size is infinite, or very large.
2. Mating is random. Mating pairs show no preference for one phenotype over another.
3. There is no mutation.
4. There is no exchange with other populations. No immigration or emigration occurs.
5. There is no selection for one phenotype over another. All phenotypes have an equal chance of reproducing.

If these conditions are met, the population's allele and genotype frequencies will remain statistically constant over time, a condition referred to as Hardy-Weinberg equilibrium. If we determine the frequency of a pair of alleles in a population, we can sample that population over several generations to determine if the frequency changes. If it does, we know that the population is evolving with respect to that pair of alleles.

Hardy and Weinberg developed mathematical formulas for estimating the frequencies of alleles in populations. Consider the following data on Rh blood type for a hypothetical human population of 6000:

**Results of Testing for Human Rh Blood Type**

Blood Type	Number of People
Rh+	4680
Rh-	1320
Total	6000

Assume that Rh blood type is inherited through two alleles:  $D$ , a dominant allele for Rh+ blood type, and  $d$ , a recessive allele for Rh- blood type.

Using Hardy-Weinberg equations, let

$p$  = frequency of the dominant allele ( $D$ )

$q$  = frequency of the recessive allele ( $d$ )

Each person is either Rh+ or Rh-, therefore,

$$p + q = 1 \text{ or } 100\% \text{ of the population.}$$

Since humans are diploid, individuals may be homozygous dominant ( $DD$ ), heterozygous ( $Dd$ ) or homozygous recessive ( $dd$ ). The basic equation must be expanded to represent all the genotype frequencies. Thus,

$$(p + q)(p + q) = 1$$

# Lab 8 Population Genetics Manual Answers

**Marcel A. Müller**



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## **Table of Contents Lab 8 Population Genetics Manual Answers**

1. Understanding the eBook Lab 8 Population Genetics Manual Answers
  - The Rise of Digital Reading Lab 8 Population Genetics Manual Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Lab 8 Population Genetics Manual 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 Lab 8 Population Genetics Manual Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Lab 8 Population Genetics Manual Answers
  - Personalized Recommendations
  - Lab 8 Population Genetics Manual Answers User Reviews and Ratings

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