

# 18.1 Genes and Variation

## Genetics Joins Evolutionary Theory

Darwin's original ideas can now be understood in genetic terms.

- ▶ Researchers discovered that traits are controlled by genes and that many genes have at least two forms, or alleles. The combination of different alleles is an individual's genotype. Natural selection acts on phenotype, not genotype.
- ▶ Genetic variation and evolution are studied in populations. Members of a population share a common group of genes, called a **gene pool**.
- ▶ **Allele frequency** is the number of times an allele occurs in a gene pool compared with the number of times other alleles for the same gene occur. In genetic terms, evolution is any change in the allele frequency in a population.

## Sources of Genetic Variation

The three main sources of genetic variation are mutations, genetic recombination during sexual reproduction, and lateral gene transfer.

- ▶ A mutation is any change in a sequence of DNA.
- ▶ Most heritable differences are due to genetic recombination during sexual reproduction. This occurs during meiosis when each chromosome in a pair moves independently. Genetic recombination also occurs during crossing-over in meiosis.
- ▶ Lateral gene transfer is the passing of genes from one organism to another organism that is not its offspring.

## Single-Gene and Polygenic Traits

The number of different phenotypes for a given trait depends on how many genes control the trait.

- ▶ A **single-gene trait** is controlled by one gene. An example in snails is the presence or absence of dark bands on their shells.
- ▶ A **polygenic trait** is controlled by two or more genes, and each gene often has two or more alleles. An example of a human polygenic trait is height.

## Genetics Joins Evolutionary Theory

For Questions 1–4, complete each statement by writing the correct word or words.

1. Natural selection works on an organism's **PHENOTYPE** rather than its **GENOTYPE**.
2. A(n) **GENE POOL** consists of all the genes that are present in a population.
3. A gene pool typically contains different **ALLELES/VARIATION/TYPES** for each heritable trait.
4. The number of times that an allele occurs in a gene pool compared with the number of times other alleles for the same gene occur is called the **ALLELE FREQUENCY** of the population.
5. In the diagram below, use circles to represent the alleles within each segment of the population. Draw the *B* alleles as solid circles and the *b* alleles as outline circles. The total number of individuals in this population is **25**; the total number of alleles is **50**.

# 16 1 Genes And Variation Study Guide Answer Key

**Anna Halama, Stephen Atkin**

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## **Table of Contents 16 1 Genes And Variation Study Guide Answer Key**

1. Understanding the eBook 16 1 Genes And Variation Study Guide Answer Key
  - The Rise of Digital Reading 16 1 Genes And Variation Study Guide Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying 16 1 Genes And Variation Study Guide Answer Key
  - 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 16 1 Genes And Variation Study Guide Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from 16 1 Genes And Variation Study Guide Answer Key
  - Personalized Recommendations
  - 16 1 Genes And Variation Study Guide Answer Key User Reviews and Ratings
  - 16 1 Genes And Variation Study Guide Answer Key and Bestseller Lists
5. Accessing 16 1 Genes And Variation Study Guide Answer Key Free and Paid eBooks
  - 16 1 Genes And Variation Study Guide Answer Key Public Domain eBooks
  - 16 1 Genes And Variation Study Guide Answer Key eBook Subscription Services
  - 16 1 Genes And Variation Study Guide Answer Key Budget-Friendly Options

6. Navigating 16 1 Genes And Variation Study Guide Answer Key eBook Formats
  - ePUB, PDF, MOBI, and More
  - 16 1 Genes And Variation Study Guide Answer Key Compatibility with Devices
  - 16 1 Genes And Variation Study Guide Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 16 1 Genes And Variation Study Guide Answer Key
  - Highlighting and Note-Taking 16 1 Genes And Variation Study Guide Answer Key
  - Interactive Elements 16 1 Genes And Variation Study Guide Answer Key
8. Staying Engaged with 16 1 Genes And Variation Study Guide Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 16 1 Genes And Variation Study Guide Answer Key
9. Balancing eBooks and Physical Books 16 1 Genes And Variation Study Guide Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 16 1 Genes And Variation Study Guide Answer Key
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 16 1 Genes And Variation Study Guide Answer Key
  - Setting Reading Goals 16 1 Genes And Variation Study Guide Answer Key
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 16 1 Genes And Variation Study Guide Answer Key
  - Fact-Checking eBook Content of 16 1 Genes And Variation Study Guide Answer Key
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
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