

17.1 Genes and Variation

Lesson Objectives

-  Define evolution in genetic terms.
-  Identify the main sources of genetic variation in a population.
-  State what determines the number of phenotypes for a trait.

Lesson Summary

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, including the alleles for each gene, that are present in a population.

Genes And Variations Answer Key

Rosina Ehmann



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Table of Contents Genes And Variations Answer Key

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

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