

11.1 GENETIC VARIATION WITHIN POPULATIONS

KEY CONCEPT A population shares a common gene pool.

In most populations, individuals have different characteristics, or traits. A phenotype is a trait produced by one or more genes, and a single population may have a range of phenotypes for any given trait. In order for natural selection to occur, a population must have different phenotypes to be selected for or against. In this way, a variety of phenotypes makes it more likely that certain individuals will survive different environmental pressures.

In order for a population to have a variety of phenotypes, it must have genetic variation. Genetic variation comes in the form of different alleles for any given gene. A population's **gene pool** is the combined alleles of all the individuals in a population.

Biologists measure the genetic diversity of a population by calculating the frequencies, or rates, of each allele in the gene pool. An **allele frequency** is therefore a measure of how common a certain allele is in the gene pool.

Genetic variation comes from two main sources:

- **Mutations** are random changes in DNA. Some mutations cause a new allele to form. If a mutation occurs in a reproductive cell, it can be passed on to offspring.
- **Recombination** is a process by which new allele combinations can form in offspring. Most recombination occurs during meiosis, when the alleles in each parent's genome are arranged in new ways.

Some biologists are studying hybridization as another source of genetic variation. Hybridization occurs when individuals of two related but different species mate.

1. What makes up a population's gene pool?
2. How is genetic variation measured in a population?
3. Describe how mutation and recombination provide genetic variation in populations.
4. Why must a population have genetic variation in order for natural selection to occur?

Genetic Variation Within Population Study Guide

Answers

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Table of Contents Genetic Variation Within Population Study Guide Answers

1. Understanding the eBook Genetic Variation Within Population Study Guide Answers
 - The Rise of Digital Reading Genetic Variation Within Population Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Genetic Variation Within Population Study Guide 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 Genetic Variation Within Population Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genetic Variation Within Population Study Guide Answers
 - Personalized Recommendations
 - Genetic Variation Within Population Study Guide Answers User Reviews and Ratings
 - Genetic Variation Within Population Study Guide Answers and Bestseller Lists
5. Accessing Genetic Variation Within Population Study Guide Answers Free and Paid eBooks
 - Genetic Variation Within Population Study Guide Answers Public Domain eBooks
 - Genetic Variation Within Population Study Guide Answers eBook Subscription Services
 - Genetic Variation Within Population Study Guide Answers Budget-Friendly Options
6. Navigating Genetic Variation Within Population Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Genetic Variation Within Population Study Guide Answers Compatibility with Devices
 - Genetic Variation Within Population Study Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genetic Variation Within Population Study Guide Answers
 - Highlighting and Note-Taking Genetic Variation Within Population Study Guide Answers
 - Interactive Elements Genetic Variation Within Population Study Guide Answers
8. Staying Engaged with Genetic Variation Within Population Study Guide Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genetic Variation Within Population Study Guide Answers
9. Balancing eBooks and Physical Books Genetic Variation Within Population Study Guide Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genetic Variation Within Population Study Guide Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Genetic Variation Within Population Study Guide Answers
- Setting Reading Goals Genetic Variation Within Population Study Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Genetic Variation Within Population Study Guide Answers
- Fact-Checking eBook Content of Genetic Variation Within Population Study Guide 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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