

17.1 Genes and Variation

How does evolution work in genetic terms?

- Natural selection does not affect a **single** gene, rather it works overall on a species
- Also instead of natural selection working on a single **organism**, it affects the **gene pool**, which is all the genes in a population
- **Allele Frequency** is the number of times an allele occurs in the gene pool
- Genetically speaking, evolution is just the **change** in allele frequency over time in a population

Sources of Genetic Variation

- There are three main sources of genetic variation
 - **Mutations**- any change in the genetic material of the cell. Most are neutral and scientists estimate every person is born with about 300 mutations
 - **Genetic Recombination**- the alleles that each parent donates are different from person to person making genes slightly different
 - **Lateral Gene Transfer**- passing of traits from one individual to the next, common in bacteria

What determines the number of phenotypes?

- The number of phenotypes is determined by how many **genes** control the trait
- A single gene trait normally has **two** phenotypes, the dominant and the recessive
- A polygenic trait will normally have **several** phenotypes
- The graph of frequency will often look like a **bell curve**

17.2 and 17.3 Genetic Change and Speciation

Natural Selection on Single Genes

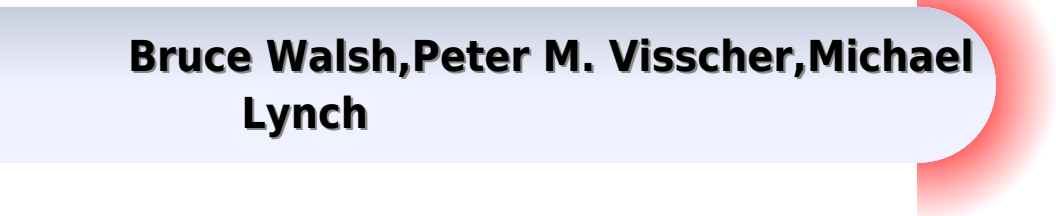
- In single gene traits, mutations are easy to track
- As an example let's say the natural color in a lizard species is brown, and a mutation makes the lizard red and black
 - If the mutation is **advantageous**, it will become more common as more red and black lizards live and pass on their trait.
 - On the other hand, if the red and black coloring is **bad**, the lizards with the trait won't survive and the trait will eventually disappear
- In polygenic traits, natural selection affects the relative fitness and produces one of three possible types of selection
 - **Directional Selection**- Individuals at one end of the curve become more fit and the curve shifts in that direction
 - **Stabilizing Selection**- Individuals in the middle of the curve have a higher fitness, this causes the curve to become more slender and taller
 - **Disruptive Selection**- Individuals at the tips are more fit than those in the middle. Could eventually lead to speciation

Genetic Drift

- Over time, an individual with one allele may have more offspring than another and therefore affect allele frequency, this random change is called **genetic drift**
- If the population size is drastically reduced, then slowly builds back up, the gene pool is going to be different than the original population. We call this the **bottleneck effect**.

Genes And Variation 17 Summary

**Bruce Walsh, Peter M. Visscher, Michael
Lynch**



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Table of Contents Genes And Variation 17 Summary

1. Understanding the eBook Genes And Variation 17 Summary
 - The Rise of Digital Reading Genes And Variation 17 Summary
 - Advantages of eBooks Over Traditional Books
2. Identifying Genes And Variation 17 Summary
 - 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 Variation 17 Summary
 - User-Friendly Interface
4. Exploring eBook Recommendations from Genes And Variation 17 Summary
 - Personalized Recommendations
 - Genes And Variation 17 Summary User Reviews and Ratings

- Genes And Variation 17 Summary and Bestseller Lists
- 5. Accessing Genes And Variation 17 Summary Free and Paid eBooks
 - Genes And Variation 17 Summary Public Domain eBooks
 - Genes And Variation 17 Summary eBook Subscription Services
 - Genes And Variation 17 Summary Budget-Friendly Options
- 6. Navigating Genes And Variation 17 Summary eBook Formats
 - ePub, PDF, MOBI, and More
 - Genes And Variation 17 Summary Compatibility with Devices
 - Genes And Variation 17 Summary Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Genes And Variation 17 Summary
 - Highlighting and Note-Taking Genes And Variation 17 Summary
 - Interactive Elements Genes And Variation 17 Summary
- 8. Staying Engaged with Genes And Variation 17 Summary
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Genes And Variation 17 Summary
- 9. Balancing eBooks and Physical Books Genes And Variation 17 Summary
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Genes And Variation 17 Summary
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Genes And Variation 17 Summary
 - Setting Reading Goals Genes And Variation 17 Summary
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Genes And Variation 17 Summary
 - Fact-Checking eBook Content of Genes And Variation 17 Summary
 - 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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