

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

**Santasree Banerjee, Muhammad
Ayub, Chen Li, Anjana Munshi**



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Edenilson Brandl, Genetics is a fascinating and ever evolving field that plays a key role in understanding the complexity of human beings and in the search for more accurate and effective treatments for a variety of medical conditions In this book we will explore the intersection of genetics and medicine covering a wide range of topics that highlight the importance and impact of genetics in many areas of health From advances in pharmacogenetics which allow us to understand how genes influence individuals response to drugs to the promise of gene therapy which seeks to correct or compensate for genetic defects associated with disease we will delve into the latest discoveries and most recent developments in each field In addition we ll cover the exciting field of regenerative medicine which uses the principles of genetics to encourage regeneration of damaged tissues and organs We will explore how this approach is being applied in eye liver kidney and musculoskeletal injuries among others Amid scientific advances we will also delve into rare genetic diseases which pose unique challenges for patients families and healthcare professionals We will discuss the advances in genetic research that are allowing for a better understanding of these conditions and the hopes that arise from this The relationship between genetics and neuroscience two areas that complement each other will be addressed highlighting discoveries that are unlocking the mysteries of the brain and neurological diseases as well as the ethical and clinical issues associated with these discoveries Another important aspect to be explored is precision medicine which uses individual genetic information to customize diagnoses and treatments We will see how genetics is revolutionizing the field of endocrinology impacting cardiovascular neurological hematological and many other diseases Throughout this book we will also examine the history of genetics revisiting the milestones and discoveries that

brought us here Furthermore we cannot ignore the ethical implications involved in this journey of knowledge and how they shape the present and future of genetics and medicine Ultimately this book aims to provide a comprehensive and accessible look at the interplay between genetics and medicine highlighting the advances challenges and promise that this exciting field holds I invite you to embark on this journey with us exploring the connections between genetics and health and discovering how genetic insights are shaping the future of medicine and transforming lives

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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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