Unit 6: Evolution

Population Genetics (Chapter 11)

I. Genes and Variation

* The two main sources of genetic variation are mutations and the genetic shuffling that results from sexual reproduction. (gene shuffling brings together new combinations of genes)

- allelic frequency —the percentage of a particular allele (trait) in a gene pool.
- camouflage –organisms blend in with surrounding environment
- mimicry –species copy another to insure their own survival
- · gene pool -all the genes that exist within a population
- single-gene trait can produce only two phenotypes (ie, attached or unattached earlobes)
- polygenic trait can produce many phenotypes (produce a bell curve)
- · gene flow -movement of alleles into or out of a population
- · genetic drift -change in allelic frequencies by chance

Ex: sudden extinction of a dominant species; small populations most affected

 genetic equilibrium —when alleles remain constant (stay the same) from generation to generation

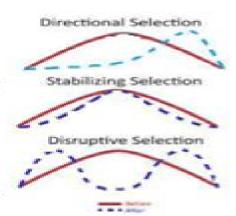
II. Evolution as Genetic Change

Natural selection works on the individual level, but affects the population.

Natural selection on single-gene traits can lead to changes in allele frequencies and thus to evolution.

Natural selection on polygenic traits can affect the distribution of phenotypes in any of three ways:

- Direct Selection-Individuals on one end of a curve are "better fitted" than the middle or other end
- Stabilizing Selection- Individuals near center of a curve are "better fitted" than both ends
- Disruptive Selection- Individuals at upper and lower ends are "better fitted" the ones in the middle



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

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