

## 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

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**Genetic Analysis** Philip Mark Meneely, 2014 How do we know what role a particular gene has How do some genes control the expression of others How do genes interact to form gene networks With its unique integration of genetics and molecular biology Genetic Analysis explores these fascinating questions detailing how our understanding of key genetic phenomena can be used to understand biological systems Opening with a brief overview of key genetic principles model organisms and epigenetics the book goes on to explore the use of gene mutations and the analysis of gene expression and activity A discussion of the genetic structure of natural populations follows before the interaction of genes during suppression and epistasis how we study gene networks and personalized genomics are considered Drawing on the latest experimental tools including microarrays RNAi screens and bioinformatics approaches Genetic Analysis provides a state of the art review of the field in a truly student friendly manner It uses extended case studies and text boxes to augment the narrative taking the reader to the forefront of contemporary research with exceptional clarity We are in an age where despite knowing so much about biological systems we are just beginning to realize how much more there is still to understand Genetic Analysis is the ideal guide to harnessing the awesome power of molecular genetics to further our understanding of biology

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