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

Pietro Ghezzi, Simone Mader, Rudolf Lucas, Sandra Sacre, Pierre Miossec

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