

Chapter 23 - The Evolution of Populations

- Darwin stressed quantitative characteristic (influenced by multiple either/or genes) An example is eye color.
- Mendel illustrated discrete (either/or) characters.
- Population**- a localized group of individuals belonging to the same species (example all the deer in dumont)
- Species**- a group of populations whose individuals have the potential to interbreed and produce fertile offsprings.
- Gene Pool** - the total aggregate of genes in a population at any one time.
- Population Genetics**- the study of genetic changes in populations.
- Fixed allele** - all members of a population are homozygous for the same allele (unusual)
- Genetic Structure** - population frequency of alleles and genotypes.
- If frequencies of alleles or genotypes deviate from values expected from Hardy-Weinberg Equilibrium then the population is evolving.

Cause of Evolution

- **Microevolution**- evolution on the smallest scale (change in population's gene structure)
- Occurs even if frequencies of alleles are changing for only a single locus.
- Over generations, some loci are at equilibrium and others are changing.

Genetic Drift

- ★ Changes in the gene pool of a small population due to chance (usually reduces genetic variability)
- ★ Example Natural Disasters which is referred to as the **Bottleneck Effect**
- ★ Example **Founder Effect** (colonization)

Gene Flow

Genetic exchange due to the migration of fertile individuals or gametes between populations tend to reduce difference between populations; 2 populations can become 1.

Mutations

- **Mutations**- a change in an organism's DNA.
- Original source of genetic variations (raw material for natural selection)
- In gametes = immediate change in gene pool
- Does not generate a new allele in abundance by chance.
- Mutants must produce more offspring to increase the frequency of allele in

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