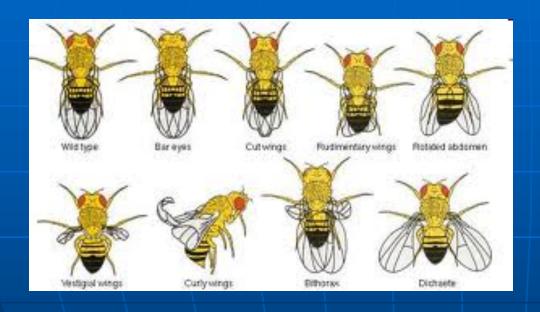
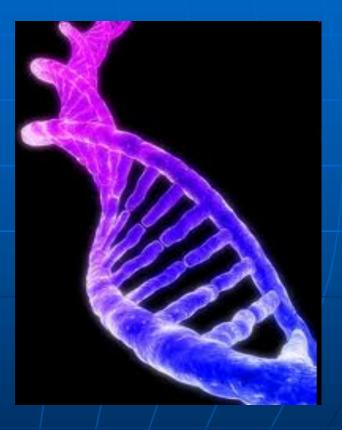
Ch 18.1: Genes & Variation

Essential Questions:

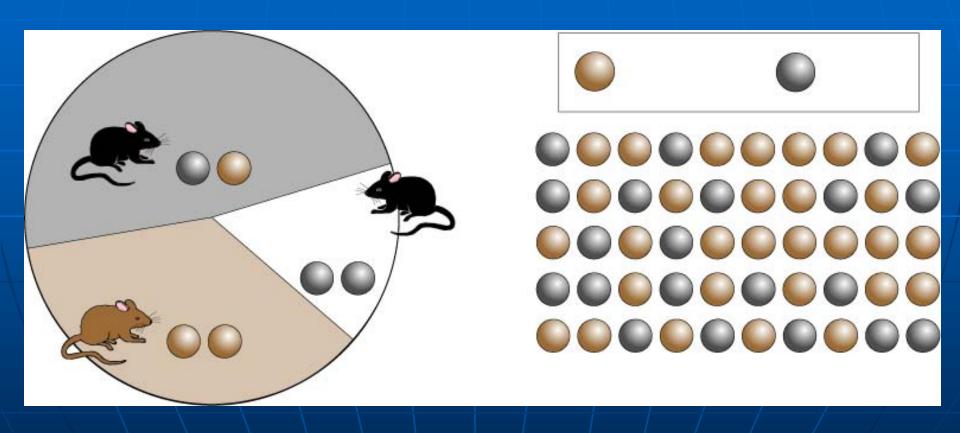
- •How is evolution defined in genetic terms?
- •What are the sources of genetic variation?
- •What determines the number of phenotypes for a given gene?

- Genetics Joins Evolutionary Theory
 - Genes, populations, and species



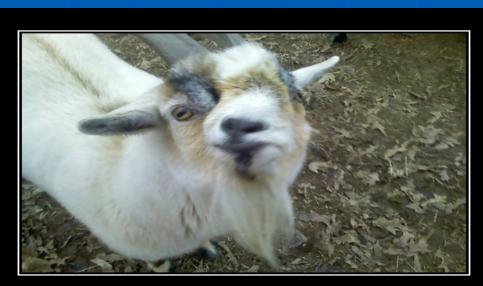


- Populations & Gene pools
 - Gene pool
 - Allele frequency
- Genotype, phenotype & evolution



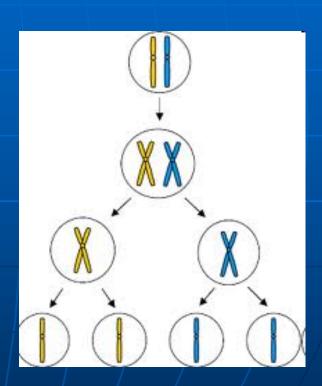
Sources of genetic variation

- Mutations
- Gene recombination during sexual reproduction
- Lateral gene transfer

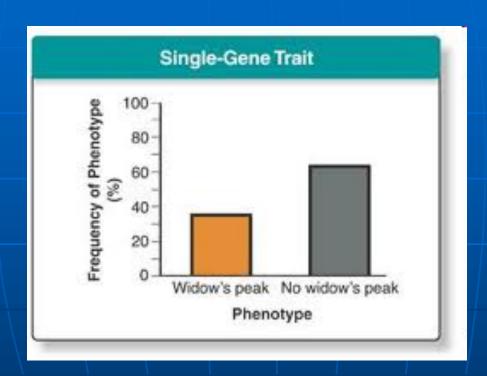


GRUESOME GENETIC MUTATIONS

Occasionally, they can be kinda cute.



- Single-gene & polygenic traits
 - Single-gene traits (w/ 2 alleles)
 - 2 phenotypes only



- Polygenic traits
- "bell curve" graph

