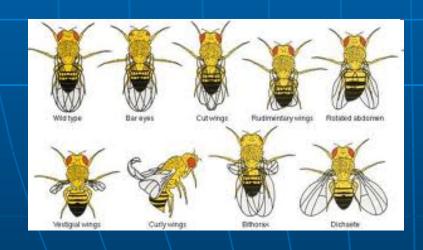
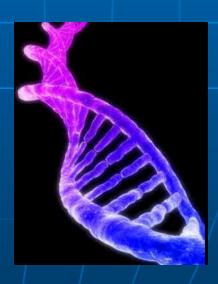
Chapter 16-1: Genes & Variation

Essential Questions:

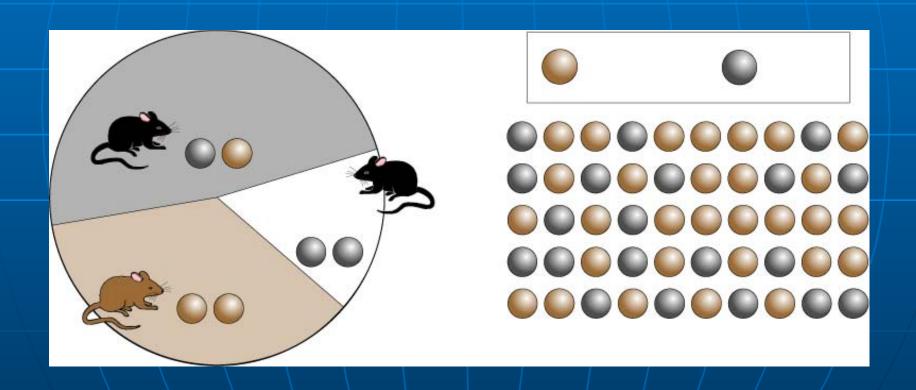
- What are the main sources of genetic variation in a population?
- What determines the number of phenotypes for a given trait?

- Darwin's ideas revisited
 - D. no genetics knowledge
 - Now genetics & molecular biology tell us
 - how variation appears
 - how nat. selection acts on variation





- Gene pools
 - alleles for each heritable trait
 - Relative frequency of allele



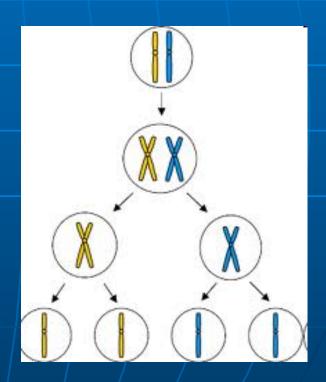
Sources of genetic variation

- Mutations
- Gene shuffling

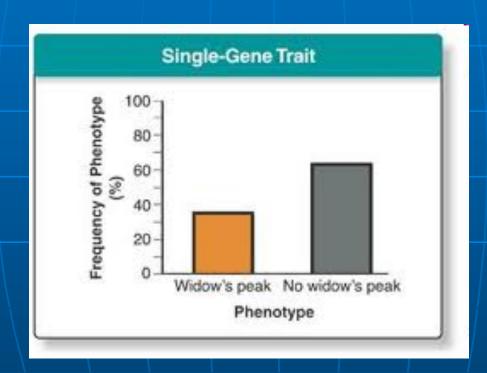


GRUESOME GENETIC MUTATIONS

Occasionally, they can be kinda cute.



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



- Polygenic traits
- "bell curve" graph

