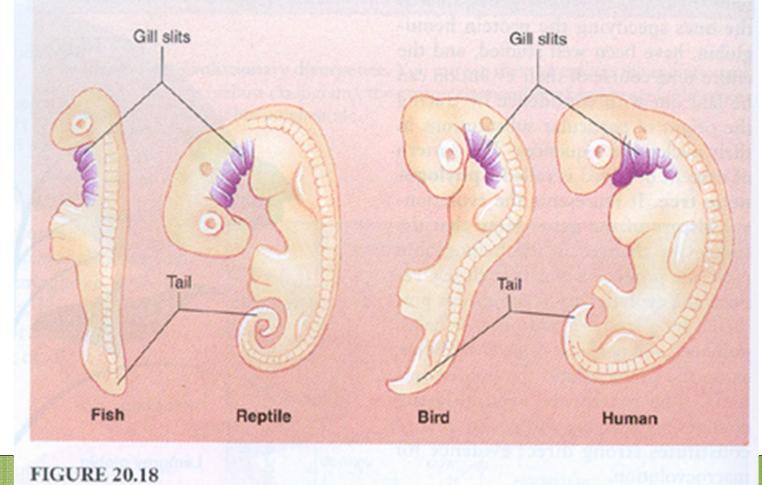
Comparative Embryology

- Embryo early, prebirth stage of development
- Vertebrate (have a backbone embryos have homologous structures
- They become different in adult forms

- Example: pharyngeal pouches
 - Fish gills
 - Reptiles, birds, mammals – ears, jaws and throats
 - Suggests they came from common ancestor





Adaptation

- Lies at the heart of Darwin's idea of evolution
- <u>Adaptation</u> a trait shaped by natural selection
 - Increases an organisms' reproductive success
 - Measured using fitness
 - <u>Fitness</u> measurement of reproductively "viable" offspring that an organisms produces

Adaptation



Camoflauge

- Allows species to blend into their environments
- They can becomes almost invisible to predators
- More of the camouflaged species will survive

Adaptation

• Mimicry

- One species evolves to resemble another species
- Harmless species looks like a harmful one
- Keeps predators away



Viceroy butterfly (The mimic palatable species) Monarch butterfly (The model distasteful species)