

### Terminology

**Vestigial structures**=Leftover parts of an organism that serves no purpose

**Speciation**=New species formed by separation/isolation

**Analogous Structure**=Same structure, different construction

**Evolution**=change in the adaptive traits accumulated over successive generations

**Stabilizing Selection**=Average expression -> fittest

**Directional Selection**=Extreme trait -> fittest

**Bidirectional Selection**=The extremes of two groups become more favorable

### Evidence of Evolution

Direct Evidence Fossils (Radioactive dating needed for accurate dating)

Indirect Evidence

- Comparative Embryology (Ontogeny Recapitulates Phylogeny)
- Comparative Anatomy(Homologous & Vestigial Structures)
- Comparative biochemistry(DNA & Protein Analysis)
- Geographic Distribution(Isolation=genetic differences)

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Not published yet.  
Last updated 19th November, 2018.  
Page 1 of 1.

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