

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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By **mitzuia**
cheatography.com/mitzuia/

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