

What is evolution? STUDY GUIDE

Evidence for evolution

- Fossils
- Biological molecules
- Comparative Embryology
- Comparative Anatomy and Physiology
- Biogeography

Darwin

- Common descent—All organisms are descendants of one of a common ancestor
- Natural selection

Artificial Selection

- Human's breed: dogs, cows, pigs, lettuce, corn, etc
- Pick the ones with the BEST trait, breed ONLY those individuals

Natural Selection and the 4 Requirements

- Over production of offspring (More born than die)
- Heritable variation (DNA mutations)
- Selection: Only some survive and reproduce (Competition for limited resources)
- Adaption: Traits of those that survive are more common in offspring!

Fitness=more offspring/babies

Fossils

- A fossil is the preserved, mineralized skeletal remains, preserved animals, footprints, pathways of an organism

Biological molecules: DNA comparisons, common uses of DNA, RNA, amino acids, etc

Comparative Embryology : Similar pattern of development across species

Comparative Anatomy and Physiology

- Vestigial structures - reduced and rudimentary compared to the same part in similar or related organisms (Examples: human tails, hind limbs in living whales)
- Homologous structures - the similarity between structures in different organisms that is attributable to their inheritance from a common ancestor (bird/bat/pterosaur wings, orca and shark tails)
- Analogous structures - various structures in different species having the same function but have evolved separately, thus do not share common ancestor

Biogeography: study of the geographic distribution of species (examples: Galapagos finches, Galapagos tortoises)

Adaptations

- Behavioral: courting rituals and territorial behaviors
 - Examples: bird songs, bird dances for mates, elk head-butting, whale migration
- Structural (anatomy): Camo, mimicry, sexual dimorphism
 - Peppered moth, Mimicry: king snakes looks like coral snake, peacock male different color than female, Camouflage: stick insect looks like a stick ☺
- Physiological: desert mouse (kidneys), Toxins in plant leaves

Human /Environmental Impact: Peppered moths, natural environment vs polluted environment702025

Evidence For Evolution Study Guide

Xiang Xie



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