

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 Of Evolution Study Guide

P.S. Associates



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Ssg- Human Biology 6E Student Study Guide Chiras,2008-02 Human Biology Sixth Edition provides students with a clear and concise introduction to the general concepts of mammalian biology and human structure and function With its unique focus on health and homeostasis Human Biology enhances students understanding of their own health needs and presents the scientific background necessary for students to think critically about biological information they encounter in the media The completely revised content and exceptional new art and photos provide students with a more user friendly text while excellent learning tools maximize comprehension of material **Study Guide to Evolutionary Biology** ,2024-10-26

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