

BIOLOGY 2

Featuring: Evolution/origins, molecular biology, cancer biology, human aging and immunology



Evolution

A. Definitions

1. Concept that all organisms are related by common ancestry
2. Fundamental paradigm of biology

B. Natural selection: The mechanism for how evolution occurs

1. Species have high potential for rapid reproduction
2. Population sizes eventually level off and remain fairly constant over time
3. There is **competition** for reproduction and survival of offspring
4. **Variations** (from random **mutations** and shuffling of genes via **meiosis**) exist in behavior, physiology, structure, etc.
5. Nature selects individuals (i.e., the **fittest** or just fortunate) for survival and reproduction to pass these favorable characteristics (**adaptations**) via their genes to their offspring
6. Over time, natural selection "can" lead to genetic changes in populations - i.e., **evolution**
7. **Microevolution**: Small-scale changes
8. **Macroevolution**: Larger-scale changes; can lead to evolution of new species and groups

Cellular/Molecular Evidence for Evolution

A. Cell Theory

1. The cell is the basic unit of life
2. Every life form, from bacteria to humans, is made of/comes from this basic structure

B. Organic Molecules

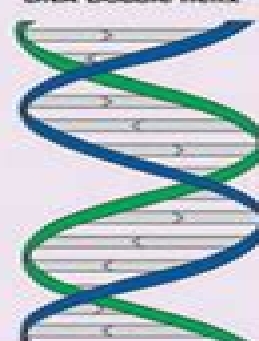
1. 99% of all life consists of carbon, hydrogen, oxygen, nitrogen, phosphorus and sulfur
2. Evolutionary relatedness explains organisms' common usage of a small subset of over 90 available elements

C. DNA

1. Genetic, informational molecule in every organism, including viruses (which appear to be molecular fragments of DNA/RNA capable of "living" in host cells)
2. DNA "language" (**genetic code**) is essentially universal (slightly different dialects exist in some single-celled organisms and in some mitochondrial/chloroplast **genomes**)
3. A common genetic language allows for such phenomena as the insertion of human genes into bacteria, which can then produce "human" proteins (see **Molecular Biology**)

D. ATP (Adenosine triphosphate): The primary energy currency molecule used by every organism

DNA Double Helix



Evidence for Evolution via Natural Selection

A. Artificial selection

1. Human controlled breeding of species strongly supports the idea that, over time, nature could also influence changes in populations
2. Humans have selected for traits to increase the attractiveness (to us) of the offspring (e.g., "cute" dogs, chickens that produce many eggs, wheat that yields numerous, plump grains)
3. Domesticated species often do poorly in the wild, as traits (i.e., variations) selected by humans would not necessarily be advantageous in nature

Artificial Selection For Crop Production



B. Biogeography: Geographic distribution of species can show organisms are related

1. Flightless birds, such as African ostriches, Australian emus, and South American rheas are found (naturally) only in the southern hemisphere; on separate continents

2. Either flightlessness in these birds evolved independently three times (possible, but improbable) or they arose from a common, flightless ancestor
3. If the latter explanation is correct, and they could not fly, how then could they get to these disparate southern continents while being excluded from the northern hemisphere?
4. Geological evidence indicates the continents were once one large land mass that subsequently broke up into pieces (**plate tectonics**) that moved (**continental drift**) first into northern and southern portions, and later into the present day continents
5. This geological concept also explains why **marsupial mammals** (e.g., kangaroo) developed only on Australia, as this continent was geographically isolated from areas where **placental mammals** evolved

C. Fossils

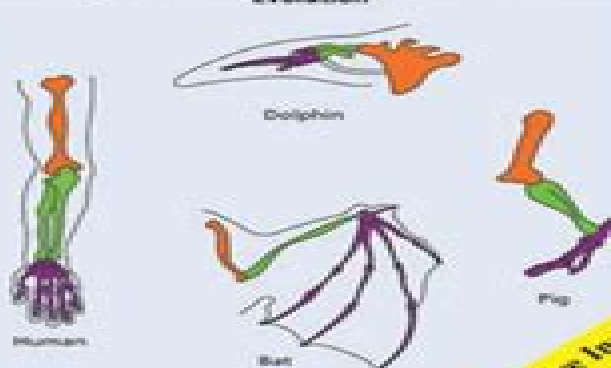
1. Preserved remnants of dead organisms
2. Darwin termed evolution "**descent with modification**"
3. Although the fossil record has gaps (some structures/organisms do not fossilize well), fossils provide valuable information about evolutionary changes or modifications in organisms (including transitional forms, e.g., horses with toes, whales with hind limbs, ferns with seeds) that have taken place over many generations
4. Estimating the age of fossils involves looking at their physical positions in sedimentary rocks (**relative dating**) and radiometric isotope techniques (**absolute dating**)

5. **Molecular clocks** look at changes in portions of genomes of organisms; also used to help determine the age of evolutionary events

D. Homologies

1. Anatomical similarities of related life forms
2. Provide strong evolutionary evidence of relatedness
3. Example: Forelimbs of vertebrates are composed of the same basic bones in disparate groups, but differ based on adaptations necessary for the specific environmental needs (i.e., walking, swimming, flying)
4. **Vestigial structures**
 - a. Those present are usually in a rudimentary, non-functional form
 - b. Show anatomically-related structures that are likely to disappear completely in future generations
 - c. Example: The vestiges of pelvic bones within the body in some modern-day humpback whales

Homologous Forelimb Bones: Evidence for Vertebrate Evolution



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