

Biology Exam 1 Study Guide

Lecture 1 → Introduction to Biological Science

Tree of Life

- Domains
 - Eukarya → visible life
 - Split into animals and plants
 - Very small portion
 - Bacteria → single cell
 - Make up most of life's branches
 - Symbionts that evolved into mitochondria and chloroplasts were eubacteria
 - Archaea → original domain of life
 - More closely related to eukaryotes than eubacteria, first branch of life
 - Basic split between archaea and bacteria
- Candidate phyla radiation: Single species have been identified, each identifies an entire phylum which is yet to be understood - pioneer species (tree is dominated by new species that scientists have never seen before)
- Species disappearing faster than can be recovered
- Eukaryotes and archaea are most closely related branches

Destruction and Mass Extinction

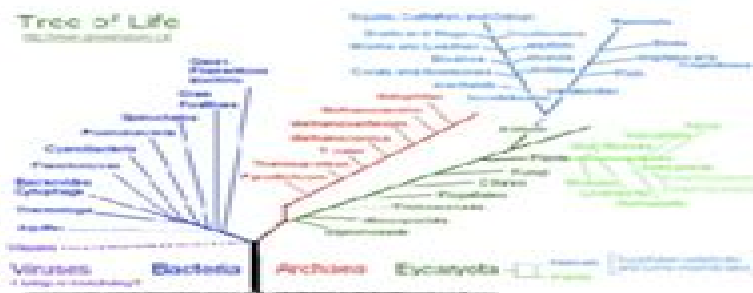
- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

Theory of Evolution

- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once. wide-ranging, strongest. Not a hypothesis
- Darwin: species arise through random mutation and natural selection for fitness
- Evidence (fewer than 40% of Americans believe in evolution)
 - fossil record shows conservation of homologous structures
 - Molecular proof: same DNA and RNA protein in cells
 - Homologous function in hands and fins → evolved similar mechanisms in appendages
- Scopes Monkey Trial
 - Scopes taught evolution illegally: resulted in Butler Act → forbid teaching evolution in TN
- Endosymbiont theory
 - Single composite cell of greater complexity could evolve from two or more separate simpler living cells in a symbiotic relationship

Year of Earth's History

- 1 Jan: earth formed 4.54 bya by acceleration of material from the solar nebula via gravitational collapse, conditions were incompatible with life, bombarded with asteroid-sized meteors for 800 million years
- 4 Mar: by 3.8 bya bombardment had slowed, Earth had cooled to lower the temps "compatible" with life



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Pamphlet Master

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Skeletal Attribution of Race George W. Gill, 1990 The field of forensic anthropology has become increasingly important to other forensic scientists and to the public since the 1970s Compiled from a symposium organised by the Mountain Desert and Coastal Forensic Anthropologists this is one of the few book length works devoted entirely to the determination of racial affiliation from skeletal remains It is valuable for its graphic images of variation in skull and face form and covers a wide range of techniques for determining ancestry in unknown individuals This is a great book for students of forensic anthropology

Anthropology News, 2000 Biology John P. Harley, 1986 **Current Law Index**, 1985 The Study of Biology, Third Edition Jeffrey J. W. Baker, P.S. Associates, Garland E. Allen, 1977

Biology David J. Fox, Adele C. Monroe, 1989 Biology Grace Monger, 1985 Biology John W. Kimball, 1978 *Biology: Biology Study Guide* Pamphlet Master, 2014-10-12 This Biology study guide is created by Pamphlet Master for students everywhere This

tool has a comprehensive variety of college and graduate school topics subjects which can give you what it takes to achieve success not only in school but beyond Included in the pamphlet are Introduction to the Cell Cell Membranes Cell Differences Biology Terms Introduction to Intracellular Components The Cytoskeleton and Cytosol Cell Respiration TERMS Cell Respiration Introduction Glycolysis Glycolysis TERMS **Study Guide for Use with Biology** Dora Cavallo-Medved,2016
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