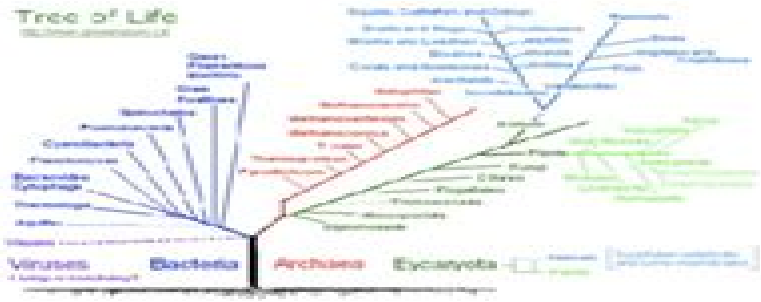
Biology Exam 1 Study Guide

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

172 Biology Study Guide

Jicheng Xie

172 Biology Study Guide:

Unveiling the Magic of Words: A Report on "**172 Biology Study Guide**"

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