

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

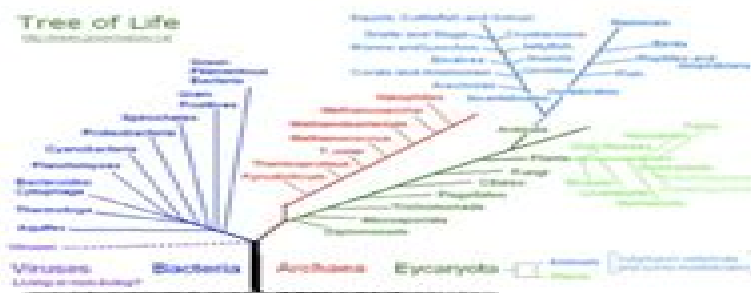
- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

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



Biology Cst Study Guide

National Learning Corporation

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Biology of Microorganisms on Grapes, in Must and in Wine Helmut König, Gottfried Uden, Jürgen Fröhlich, 2017-11-01

The second edition of the book begins with the description of the diversity of wine related microorganisms followed by an outline of their primary and energy metabolism Subsequently important aspects of the secondary metabolism are dealt with

since these activities have an impact on wine quality and off flavour formation Then chapters about stimulating and inhibitory growth factors follow This knowledge is helpful for the growth management of different microbial species The next chapters focus on the application of the consolidated findings of molecular biology and regulation the functioning of regulatory cellular networks leading to a better understanding of the phenotypic behaviour of the microbes in general and especially of the starter cultures as well as of stimulatory and inhibitory cell cell interactions during wine making In the last part of the book a compilation of modern methods complete the understanding of microbial processes during the conversion of must to wine This broad range of topics about the biology of the microbes involved in the vinification process could be provided in one book only because of the input of many experts from different wine growing countries

CST Earth Science Teacher Certification Exam Sharon A. Wynne,2007 Includes 25 competencies skills found on the CST Earth Science test and 125 sample test questions This guide aligned specifically to standards prescribed by the New York Department of Education covers the sub areas of Foundations of Scientific Inquiry Space Systems Atmospheric Systems Geological Systems and Water Systems

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