

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

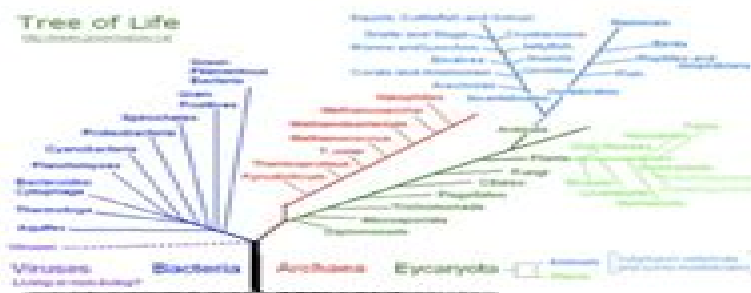
- One million species face imminent extinction because of humans
- Recent past → >50% vertebrates/>75% flying insects lost in the past <50 years
- Critically threatened → >40% amphibians, >30% plants/corals/sharks, >25% mammals
- Populations and extinctions have increased

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 Study Guide For Plant Structure

Maurice Alpheus Bigelow



Biology Study Guide For Plant Structure:

Life: The Science of Biology Study Guide William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR

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Plant Structure Bryan G. Bowes, James D. Mauseth, 2008-04-11 This book is a fundamental guide to understanding plant structure offering plant scientists plant biologists and horticulturalists in practice academic life and in training It includes a combination of concise scientific text and superb color photographs and drawings focusing on structure at anatomical histological and fine structure levels

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Life Study Guide David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also

covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

Plant Biotechnology and Genetic Advances Kailash Verma, 2025-01-03 Plant Biotechnology and Genetic Advances aims to inform and inspire the next generation of biotechnologists by exploring contemporary techniques and technologies We delve into tissue culture and genetic engineering to produce modified plants with enhanced characteristics These tools promise to revolutionize the future of plant biotechnology and crop genetics contributing to human health and environmental sustainability We also examine reverse breeding technologies which help new cultivators accelerate breeding to address climate change challenges Recent advances in biotechnology at the microscopic level involve manipulating cells editing DNA and synthesizing genomes Our book covers plant biology basics new biotechnology tools and advances plant cell structure and function system biology genomes plant disease resistance plant tissue culture and chloroplast biology Each chapter includes summaries and discussion questions to reinforce learning This book is an invaluable resource for students and individuals seeking a deeper understanding of plant biotechnology and genetics

Biological Sciences Curriculum Study Journal Biological Sciences Curriculum Study, 1978

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