

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

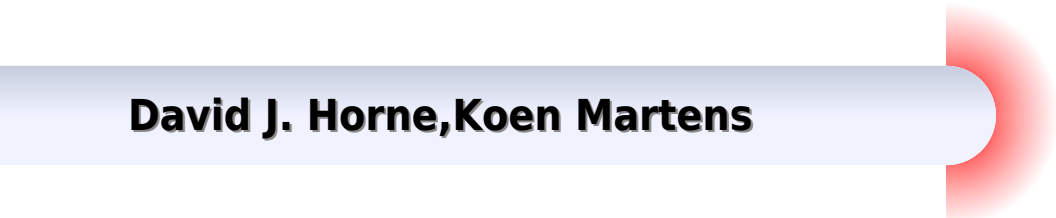
- Evolution: all life on earth evolved from a common ancestor, most properties within cells work in the same way, the change in gene distribution over time within a population
- Theory: a very well substantiated idea that explains many overlapping phenomena at once, wide-ranging, strongest. Not a hypothesis
- 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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David J. Horne, Koen Martens



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Applying Evolutionary Archaeology Michael J. O'Brien, R. Lee Lyman, 2007-05-08 Anthropology and by extension archaeology has had a long standing interest in evolution in one or several of its various guises Pick up any lengthy treatise on humankind written in the last quarter of the nineteenth century and the chances are good that the word evolution will appear somewhere in the text If for some reason the word itself is absent the odds are excellent that at least the concept of change over time will have a central role in the discussion After one of the preeminent and often vilified social scientists of the nineteenth century Herbert Spencer popularized the term in the 1850s evolution became more or less a household word usually being used synonymously with change albeit change over extended periods of time Later through the writings of Edward Burnett Tylor Lewis Henry Morgan and others the notion of evolution as it applies to stages of social and political development assumed a prominent position in anthropological discussions To those with only a passing knowledge of American anthropology it often appears that evolutionism in the early twentieth century went into a decline at the hands of Franz Boas and those of similar outlook often termed particularists However it was not evolutionism that was under attack but rather comparativism an approach that used the ethnographic present as a key to understanding how and why past peoples lived the way they did Boas 1896

Resources in Education, 1986-02
Responses to One Hundred and One Questions on God and Evolution John F. Haught, 2001 A succinct overview of questions that still divide scientific materialists and religious believers

Evolutionary Biology and Ecology of Ostracoda David J. Horne, Koen Martens, 2013-11-11 Ostracoda Crustacea are potentially excellent model organisms for evolutionary studies because they combine an extensive fossil record with a wide recent distribution and therefore allow studies on both patterns and processes leading to extant diversity The main scientific domains contributing theories concepts and data to evolutionary biology are morphology including ontogeny palaeontology genetics and ecology and to all of these aspects ostracods can contribute This is clearly illustrated by the fifteen papers presented under Theme 3 of the 13th International Symposium on Ostracoda Chatham UK in 1997 which are grouped in the present proceedings one of three volumes resulting from this meeting The contributions deal with the evolution of both extant and fossil forms including most of the Phanerozoic ecology of both marine and freshwater taxa and developmental morphology of both soft parts and valves Although the canvas is wide each paper clearly shows how studies on Ostracoda can be relevant to general theory on evolutionary biology and ecology

Evolutionary Biology Michael T. Clegg, Max K. Hecht, Ross J. MacIntyre, 2000-09-30 After

volume 33 this book series was replaced by the journal Evolutionary Biology Please visit www.springer.com/11692 for further information The nature of science is to work on the boundaries between the known and the unknown These boundaries shift as new methods are developed and as new concepts are elaborated e g the theory of the gene or more recently the coalescence framework in population genetics These tools allow us to address questions that were previously outside the realm of science and as a consequence the boundary between the knowable and unknowable has shifted A study of limits should reveal and clarify the boundaries and make sharper the set of questions This book examines and analyzes these new limits as they are applied to evolutionary biology and population genetics It does this by framing the analysis within four major classes of problems establishing the fact of evolution understanding the evolutionary pathways that led to today's biological world mechanisms of evolutionary change e g models of social behavior sexual selection macro evolution and finally prediction

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Table of Contents 1evolutionary Biology Today Study Guide

1. Understanding the eBook 1evolutionary Biology Today Study Guide
 - The Rise of Digital Reading 1evolutionary Biology Today Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying 1evolutionary Biology Today Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 1evolutionary Biology Today Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from 1evolutionary Biology Today Study Guide
 - Personalized Recommendations

- 1evolutionary Biology Today Study Guide User Reviews and Ratings
- 1evolutionary Biology Today Study Guide and Bestseller Lists
- 5. Accessing 1evolutionary Biology Today Study Guide Free and Paid eBooks
 - 1evolutionary Biology Today Study Guide Public Domain eBooks
 - 1evolutionary Biology Today Study Guide eBook Subscription Services
 - 1evolutionary Biology Today Study Guide Budget-Friendly Options
- 6. Navigating 1evolutionary Biology Today Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - 1evolutionary Biology Today Study Guide Compatibility with Devices
 - 1evolutionary Biology Today Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1evolutionary Biology Today Study Guide
 - Highlighting and Note-Taking 1evolutionary Biology Today Study Guide
 - Interactive Elements 1evolutionary Biology Today Study Guide
- 8. Staying Engaged with 1evolutionary Biology Today Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1evolutionary Biology Today Study Guide
- 9. Balancing eBooks and Physical Books 1evolutionary Biology Today Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1evolutionary Biology Today Study Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 1evolutionary Biology Today Study Guide
 - Setting Reading Goals 1evolutionary Biology Today Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1evolutionary Biology Today Study Guide
 - Fact-Checking eBook Content of 1evolutionary Biology Today Study Guide

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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