

# Chapter 25

## Phylogeny and Systematics

PowerPoint Lectures for  
*Biology, Seventh Edition*  
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# Chapter 25 Phylogeny And Systematics

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### **Chapter 25 Phylogeny And Systematics**

Chapter 25 Phylogeny and Systematics Lecture Outline . Overview: Investigating the Tree of Life. Evolutionary biology is about both process and history. The processes of evolution are natural selection and other mechanisms that change the genetic composition of populations and can lead to the evolution of new species.

### **Chapter 25 - Phylogeny and Systematics | CourseNotes**

Phylogeny and Systematics - Chapter 25. Phylogeny - Systematics - Molecular systematics - I. Common ancestries are revealed by the fossil record, and morphological and molecular evidence. To infer phylogeny we use information from the fossil record, morphology, development and biochemistry. Fossils also reveal characteristics that may have been lost over time in some lineages. A. The ...

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Phylogeny and Systematics - Chapter 25 Phylogenetic Trees A clade is a group of species that includes an ancestral species and all its descendants Monophyletic A valid clade is monophyletic, signifying that it consists of the ancestor species and all its descendants Cladograms Polyphyletic a polyphyletic grouping

### **Chapter 25 Phylogeny And Systematics**

CHAPTER 25 PHYLOGENY AND SYSTEMATICS. Section A2 The Fossil Record and Geological Time(continued) 3. The fossil record is a substantial, but incomplete, chronicle of evolutionary history 4. Phylogeny has a biogeographical basis in continental drift 5. The history of life is punctuated by mass extinctions. 19 3. The fossil record is a substantial, but

### **PPT - CHAPTER 25 PHYLOGENY AND SYSTEMATICS PowerPoint ...**

Chapter 25: Phylogeny and Systematics Overview the Tree of Phylogeny is the evolutionary history of a species or a group of species They use systematics, an analytical approach to understanding the diversity and relationships of organisms, both and extinct Systematists have traditionally

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Phylogeny of extant taxa: morphological evidence. The first cladistic study of pangolin

systematics based on morphology was by Gaudin and Wible (1999), based solely on cranial skeletal anatomy.It recognized three main clades of living pangolins, including an Asian clade, a clade for the arboreal African pangolins, and a clade for the African ground pangolins.

### **Phylogeny and systematics - ScienceDirect**

Chapter 25 Midterm Review. Terms in this set (7) Distinguish between phylogeny and systematics. Phylogeny -> The evolutionary history of a species or group of related species. Systematics -> The study of biological diversity in an environmental context, encompassing taxonomy and involving the reconstruction of phylogenetic history. Explain why bird and bat wings are homologous as vertebrate ...

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Chapter 25: Phylogeny and Systematics Chapter Questions 1) Which combination of the following species characteristics would cause the greatest likelihood of fossilization in sedimentary rock? I. The species was abundant. II. The species was widespread. III. The Page 9/23. File Type PDF Chapter 25 Phylogeny And Systematics Study Guide Answers species had hard body parts. IV. The species was ...

### **Chapter 25 Phylogeny And Systematics Study Guide Answers**

Chapter 25: Phylogeny and Systematics. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. JillianWothe. Terms in this set (66) phylogeny. the evolutionary history of a species or group of related species. systematics. the study of biological diversity in evolutionary context, also name and classify species. fossil record . the ordered array in which fossils appear ...

### **Chapter 25: Phylogeny and Systematics Flashcards | Quizlet**

Chapter 25: Phylogeny and Systematics Chapter Review Phylogeny: evolutionary history of a species. Systematics: study of the diversity of life and phylogenetic history. Molecular Systematics: uses DNA/RNA comparisons to infer relations between genes/genomes. 25.2: Phylogenetic Systematics connects classification with evolutionary history Taxonomy: divides organisms into categories based on ...

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Chapter 25 Phylogeny And Systematics the remains (or an impression) of a plant or animal that existed in a past geological age and that has been excavated from the soil. sedimentary rocks. form from layers of minerals that settle out of water or as dust and sand on land.

### **Chapter 25 Phylogeny And Systematics Study Guide Answers**

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### **Chapter 25 Phylogeny And Systematics**

AP Chapter 25 - Phylogeny and Systematics (detailed) Tools. Copy this to my account; E-mail to a friend; Find other activities; Start over; Help ; A B; A type of grouping that excludes some members that share a common ancestor with members that are included in the taxon. Paraphyletic, A species or group of species that is closely related to the group of species being studied, but clearly not ...

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