

Make a Cladogram Lab

Background: Cladistics is the study of evolutionary classification. A cladogram, or a branching tree, shows evolutionary relationships among organisms. Comparative morphology investigates characteristics for homology and analogy to determine which organisms share a recent common ancestor. A cladogram will begin by grouping organisms based on a characteristic displayed by ALL the members of the group. Subsequently, the larger group will contain increasingly smaller groups that share the traits of the groups before them. However, they also exhibit distinct changes as the new species evolve. Further, molecular evidence from genes which rarely mutate can provide molecular clocks that tell us how long ago organisms diverged, unlocking the secrets of organisms that may have similar convergent morphology but do not share a recent common ancestor.

Pre-Lab Questions:

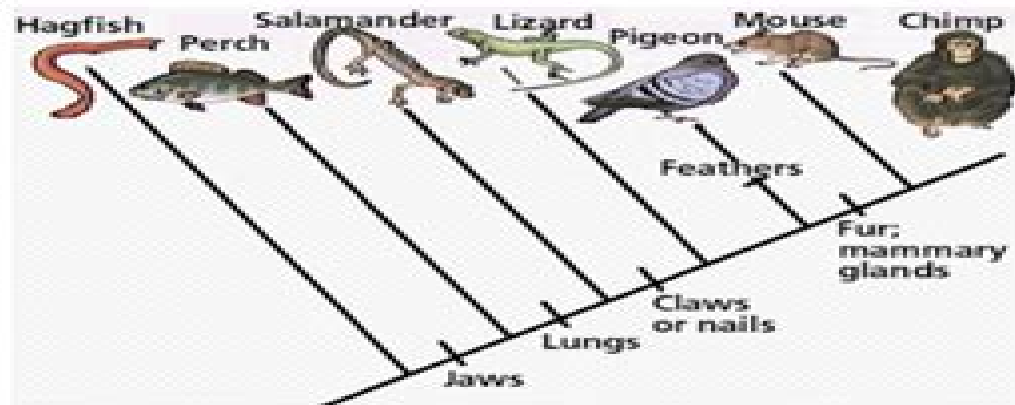


Fig. 1 Sample Cladogram

1. Which organisms in the cladogram in figure 1 have fur and mammary glands?
2. Which organisms in the cladogram in figure 1 have jaws?
3. Based on the cladogram in figure 1, which shared a common ancestor most recently – a mouse and a lizard or a mouse and a perch?
4. Which two organisms would you expect to have a closer matching DNA sequence for a gene that doesn't matter in terms of natural selection – Hagfish and Pigeon or Hagfish and Salamander?
5. Using the species listed in Tables 1 and 2, hypothesize and list the species in order of evolutionary relationships beginning with Amoeba.

Evolution And Classification Test Answer Key

A Loxley



Evolution And Classification Test Answer Key:

The book delves into Evolution And Classification Test Answer Key. Evolution And Classification Test Answer Key is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Evolution And Classification Test Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Evolution And Classification Test Answer Key
 - Chapter 2: Essential Elements of Evolution And Classification Test Answer Key
 - Chapter 3: Evolution And Classification Test Answer Key in Everyday Life
 - Chapter 4: Evolution And Classification Test Answer Key in Specific Contexts
 - Chapter 5: Conclusion
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