

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 characteristics 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:

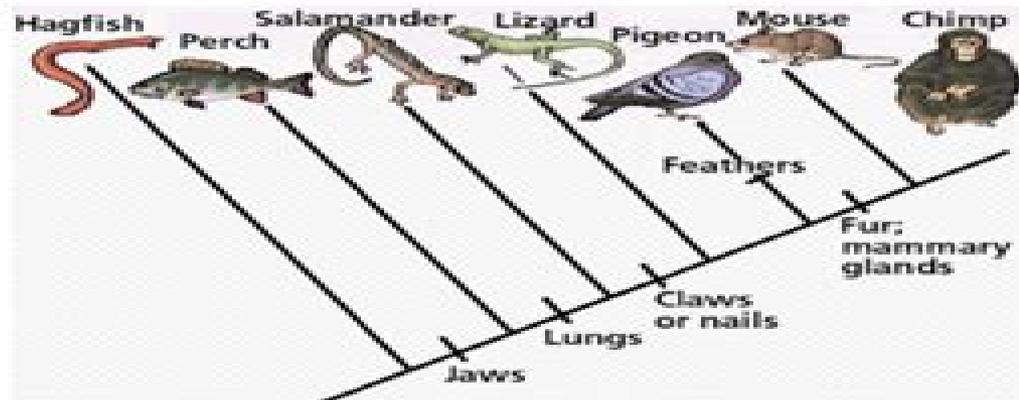


Fig. 1 Sample Cladogram

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 Table 1 and Table 2, hypothesize and list the species in order of evolutionary relationships beginning with Amoeba.

Cladograms Genetics Lab Answers

Mark Anestis, Kelcey Burris



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The Assumptions Behind the Theory of Evolution Dave A. Schoch,2011 The foundation of evolutionary theory consists solidly of numerous unwarranted and illegitimate assumptions many of which are antagonistic to the facts of nature These assumptions are taught to the public as codified facts of science when they exist only as what if s The author addresses these issues as well as the philosophical roots of this scientific movement that push the theory along keeping it alive by less than scientific means He exposes the farce that a false philosophy not science keeps alive Most of the arguments for Intelligent Design are covered as well as many more ID doesn t cover The author also covers various games that evolutionary theorists like to play in their efforts to make evolutionary theory seem scientific He covers equivocation switching the meanings of words around to fit one s means to an end especially the four different meanings of the word evolution utilized by evolutionists to confuse the issue Before long anyone caught up into a debate with an evolutionist must concede because of these perfidious tactics According to one scientist this is an excellent book It promises to be a very important book in this

area referring to the creation vs evolution controversy Dr Jerry Bergman M S Ph D M P H M A M S B S *Collaborative Teaching in the Middle Grades* Helaine Becker,2005-04-30 This book allows you to team teach with a science specialist to drive home key library and media curriculum goals Eight detailed chapters provide background and complete lesson plans that cover both library and general science skills and benchmarks Included are reproducible student worksheets tools for assessment and a suggested resource list Grades 6 8 Collaborative Teaching in the Middle Grades Inquiry Science will enable school librarians to pursue the goal of teaching to standards It offers a comprehensive detailed guide to collaboration the process and tips for success and innovative unit lessons for grades 6 8 that support the AASL s nine Information Literacy Standards for Student Learning while designing lessons integrated with the American Association for the Advancement of Science s Benchmarks for Science Literacy It provides background material complete lesson overview instructional tasks and responsibilities tools for assessment and suggested resources in a convenient all in one format Reproducible student worksheets lesson guides and assessments are included Research skills such as selecting and retrieving data evaluating data synthesizing data creating new data and communicating of information are all be reinforced during each lesson

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