

## Phylogenetic Trees

How do the changes in gene sequences allow us to reconstruct the evolutionary relationships between related species?

### Why?

The saying "Don't judge a book by its cover," could be applied to the topic of evolution. For example, humans share 75% of their DNA with chickens. Biologists point to this as evidence that humans and chickens once shared a common ancestor. The advent of DNA technology has given scientists the tools with which to examine how closely related certain species are. DNA analysis allows scientists to construct phylogenetic trees whose branches link together the relatedness of different organisms.

### Model 1 – Phylogenetic Trees



1. Refer to Model 1.
  - a. How long ago did the common ancestor of all the organisms on this phylogenetic tree exist?  
35 mil.
  - b. Which two lines diverged 30 million years ago?  
bear and panda
  - c. List all modern descendants of the organism that was alive at the point indicated by the asterisk.  
every thing except  
black and polar

# Pogil Activities For Ap Biology Phylogenetic Trees Answers

**Bo Lin**



## **Pogil Activities For Ap Biology Phylogenetic Trees Answers:**

*Phylogenetic Trees Made Easy* Barry G. Hall, 2008 Barry G Hall helps beginners get started in creating phylogenetic trees from protein or nucleic acid sequence data      Phylogenetic Comparative Methods Luke J. Harmon, 2018-05-23 An introduction to statistical analyses of phylogenetic trees using comparative methods      *Undergraduate Biology Students' Abilities to Construct Phylogenetic Trees ; a Thesis* Aimee K. Young, 2010      **Data Integration, Manipulation and Visualization of Phylogenetic Trees** Guangchuang Yu, 2022 Data Integration Manipulation and Visualization of Phylogenetic Trees introduces and demonstrates data integration manipulation and visualization of phylogenetic trees using a suite of R packages tidytree treeio ggtree and ggtreeExtra Using the most comprehensive packages for phylogenetic data integration and visualization contains numerous examples that can be used for teaching and learning Ideal for undergraduate readers and researchers with a working knowledge of R and ggplot2      *Reconstructing Phylogenetic Trees from Evolutionary Data* Arturo E. Jurado, 2010      Phylogenetic Trees and Molecular Evolution David R. Bickel, 2022 This book serves as a brief introduction to phylogenetic trees and molecular evolution for biologists and biology students It does so by presenting the main concepts in a variety of ways first visually then in a history next in a dice game and finally in simple equations The content is primarily designed to introduce upper level undergraduate and graduate students of biology to phylogenetic tree reconstruction and the underlying models of molecular evolution A unique feature also of interest to experienced researchers is the emphasis on simple ways to quantify the uncertainty in the results more fully than is possible with standard methods      **Automobile Phylogenetic Tree** , Al Vogel presents An Automobile Phylogenetic Tree an activity for high school biology or life science classes requiring the construction of a phylogenetic tree for various cars and trucks Access Excellence a service of the nonprofit National Museum of Health provides the activity online The activity was created as part of the National Leadership Program for Teachers of the Woodrow Wilson National Fellowship Foundation

**Identifying Phylogenetic Trees** Magnus Bordewich, Charles Semple, Katharina Theresia Huber, University of Canterbury. Department of Mathematics and Statistics, 2004      *Models and Estimation for Phylogenetic Trees* Faisal Ababneh, 2006      *Maximum Likelihood Estimation of Phylogenetic Trees* Bo Lin, 2001 This thesis is concerned with the statistical techniques used in the molecular phylogenetics We introduce some basic concepts in molecular biology such as how the Markov model describes the evolutionary process and use the likelihood method to re construct the evolutionary tree with the DNA sequences In this thesis we did some simulation studies to show how the parameters setting and other factors affect the accuracy of re construction results In the Chapter 4 we showed how the rate among sites affect the re construct result comparing it with only using common rate across sites situation      **Branching Out** Amelie Sophia el Mahmoud, 2025 Creating phylogenetic trees to describe evolution is an ongoing project in biology In 1987 two independent papers introduced a new technique used to construct phylogenetic trees called the method of phylogenetic invariants Phylogenetic invariants

are polynomials in the joint distributions arising from a Markov process on a tree. Since they were introduced, much work has been done to calculate phylogenetic invariants for certain classes of models. In this thesis, we introduce the algebraic geometric concepts underlying the computations of these invariants. We also provide a biological understanding of evolution, how it is represented through trees, and the assumptions we make to simplify our model. Finally, we describe the model used to calculate phylogenetic invariants and unpack the work done by Bernd Sturmfels and Seth Sullivant to explicitly calculate toric ideals of phylogenetic invariants for group-based models.

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