

# 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 Phylogenetic Trees Answer Key

**Tandy Jo Warnow**



## **Pogil Phylogenetic Trees Answer Key:**

**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 Supertrees Olaf R.P. Bininda-Emonds, 2004-05-31 This is the first book on phylogenetic supertrees a recent but controversial development for inferring evolutionary trees Rather than analyze the combined primary character data directly supertree construction proceeds by combining the tree topologies derived from those data This difference in strategy has allowed for the exciting possibility of larger more complete phylogenies than are otherwise currently possible with the potential to revolutionize evolutionarily based research This book provides a comprehensive look at supertrees ranging from the methods used to build supertrees to the significance of supertrees to bioinformatic and biological research Reviews of many the major supertree methods are provided and four new techniques including a Bayesian implementation of supertrees are described for the first time The far reaching impact of supertrees on biological research is highlighted both in general terms and through specific examples from diverse clades such as flowering plants even toed ungulates and primates The book also critically examines the many outstanding challenges and problem areas for this relatively new field showing the way for supertree construction in the age of genomics Interdisciplinary contributions from the majority of the leading authorities on supertree construction in all areas of the bioinformatic community biology computer sciences and mathematics will ensure that this book is a valuable reference with wide appeal to anyone interested in phylogenetic inference **Phylogenetic Trees and Molecular Evolution** David R. Bickel, 2022-09-29 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 *Tree Thinking: An Introduction to Phylogenetic Biology* David A. Baum, Stacey D. Smith, 2012-08-10 Baum and Smith both professors evolutionary biology and researchers in the field of systematics present this highly accessible introduction to phylogenetics and its importance in modern biology Ever since Darwin the evolutionary histories of organisms have been portrayed in the form of branching trees or phylogenies However the broad significance of the phylogenetic trees has come to be appreciated only quite recently Phylogenetics has myriad applications in biology from discovering the features present in ancestral organisms to finding the sources of invasive species and infectious diseases to identifying our closest living and extinct hominid relatives Taking a conceptual approach *Tree Thinking* introduces readers to the interpretation of phylogenetic trees how these trees can be reconstructed and how they can be used to answer biological questions Examples and vivid metaphors are incorporated throughout and each chapter

concludes with a set of problems valuable for both students and teachers Tree Thinking is must have textbook for any student seeking a solid foundation in this fundamental area of evolutionary biology *Data Integration, Manipulation and Visualization of Phylogenetic Trees* Guangchuang Yu, 2022-08-26 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 Key Features Manipulating phylogenetic tree with associated data using tidy verbs Integrating phylogenetic data from diverse sources Visualizing phylogenetic data using grammar of graphics The History of Keys and Phylogenetic Trees in Systematic Biology Edward Groesbeck Voss, 1952

**The Phylogenetic Handbook** Marco Salemi, Anne-Mieke Vandamme, Philippe Lemey, 2009-03-26 A broad hands on guide with detailed explanations of current methodology relevant exercises and popular software tools Reconstructing Phylogenetic Trees from Evolutionary Data Arturo E. Jurado, 2010 **Reconstructing the Tree of Life** Trevor R. Hodkinson, John A.N. Parnell, 2006-12-26 To document the world's diversity of species and reconstruct the tree of life we need to undertake some simple but mountainous tasks Most importantly we need to tackle species rich groups We need to collect name and classify them and then position them on the tree of life We need to do this systematically across all groups of organisms and b **Combinatorial Algorithms for Constructing Phylogenetic Trees** Tandy Jo Warnow, 1991

**Deriving phylogenetic trees from non-coding DNA** Reazur Rahman, 2004 FPT Algorithms for Binary Near-perfect Phylogenetic Trees Sranath Sridhar, 2005 Abstract We consider the problem of reconstructing near perfect phylogenetic trees using binary character states referred to as BNPP A perfect phylogeny assumes that every character mutates at most once in the evolutionary tree yielding an algorithm for binary character states that is computationally efficient but not robust to imperfections in real data A near perfect phylogeny relaxes the perfect phylogeny assumption by allowing at most a constant number of additional mutations In this paper we present a simple lower bound for the size of an optimal phylogeny develop two algorithms for constructing optimal phylogenies and show experimental results for one of the variants The first algorithm is intuitive and reconstructs an optimal near perfect phylogenetic tree in time  $O(q^k \log n)$  where  $k$  is the number of characters that share four gametes with some other character A second more involved algorithm shows the problem to be fixed parameter tractable in  $q$  by solving it in time  $O(q^s \log n)$  where  $s$  is the number of states per character 2 for binary We implement the first algorithm and show that it finds the optimal solution quickly for a selection of population datasets including mitochondrial and Y chromosome samples from humans and other primates Our results describe the first practical phylogenetic tree

reconstruction algorithm that finds guaranteed optimal solutions while being easily implemented and computationally feasible for data sets of biologically meaningful size and complexity

**Statistics for Phylogenetic Trees** Susan Holmes, 2002

**Post-processing of Phylogenetic Trees** Ana Serra Silva, 2022

**Classification Using Phylogenetic Trees** Min-Hui Wang, 1999

*Phylogenetic Trees from Large Datasets* Heiko A. Schmidt, 2003

*Comparing the Likelihood Functions of Phylogenetic Trees* Avner Bar-Hen, Hirohisa Kishino, 1995

**Drawing Phylogenetic Trees** Christian Bachmaier, Ulrik Brandes, Barbara Schlieper, 2009

*Phylogenetic Trees and Their Analysis* Eric Ford, City University of New York. Computer Science, 2014

Determining the best possible evolutionary history the lowest cost phylogenetic tree to fit a given set of taxa and character sequences using maximum parsimony is an active area of research due to its underlying importance in understanding biological processes As several steps in this process are NP Hard when using popular biologically motivated optimality criteria significant amounts of resources are dedicated to both heuristics and to making exact methods more computationally tractable We examine both phylogenetic data and the structure of the search space in order to suggest methods to reduce the number of possible trees that must be examined to find an exact solution for any given set of taxa and associated character data Our work on four related problems combines theoretical insight with empirical study to improve searching of the tree space First we show that there is a Hamiltonian path through tree space for the most common tree metrics answering Bryant's Challenge for the minimal such path We next examine the topology of the search space under various metrics showing that some metrics have local maxima and minima even with perfect data while some others do not We further characterize conditions for which sequences simulated under the Jukes Cantor model of evolution yield well behaved search spaces Next we reduce the search space needed for an exact solution by splitting the set of characters into mutually incompatible subsets of compatible characters building trees based on the perfect phylogenies implied by these sets and then searching in the neighborhoods of these trees We validate this work empirically Finally we compare two approaches to the generalized tree alignment problem or GTAP Sequence alignment followed by tree search vs Direct Optimization on both biological and simulated data

*Phylogenetic Comparative Methods* Luke J. Harmon, 2018-05-23 An introduction to statistical analyses of phylogenetic trees using comparative methods

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