

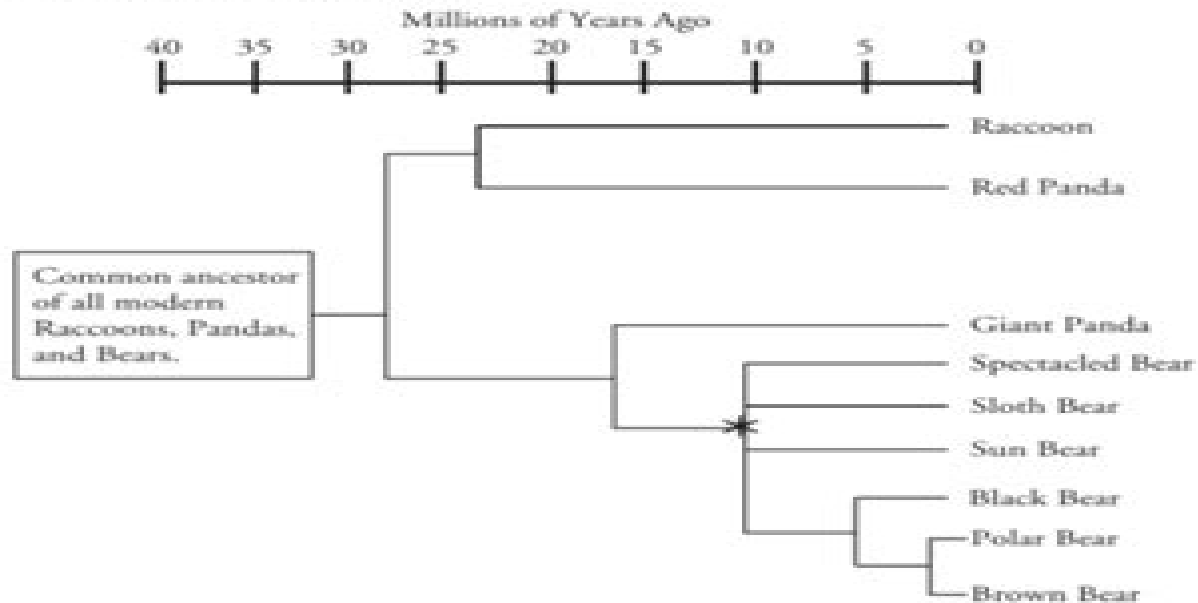
Phylogenetic Trees

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?
 - b. Which two lines diverged 30 million years ago?
 - c. List all modern descendants of the organism that was alive at the point indicated by the asterisk.

Model 1 Phylogenetic Trees Answer Key

**Lawrence Irwin Gilbert, Kostas
latrou, Sarjeet S. Gill**



Model 1 Phylogenetic Trees Answer Key:

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Iatrou, Sarjeet S. Gill, 2005 Featuring the developments and achievements in modern insect science this index volume will help researchers to track specific subjects and particular species of insects cited in several volumes The chapters in this edition include the ecdysone receptor lipocalins bacterial toxins and more **Molecular Genetics, Microbiology and Virology** ,1989 **Biology** Eric Strauss, Marylin Lisowski, 2000 **Nature** Sir Norman Lockyer, 2008 *Introduction to the Exploration of Multivariate Biological Data* János Podani, 2000 Attention is focused on the supraindividual biological level in example plant ecology phytosociology and taxonomy Proceedings ,2006 **Microbiology** Eugene W. Nester, 2000
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