

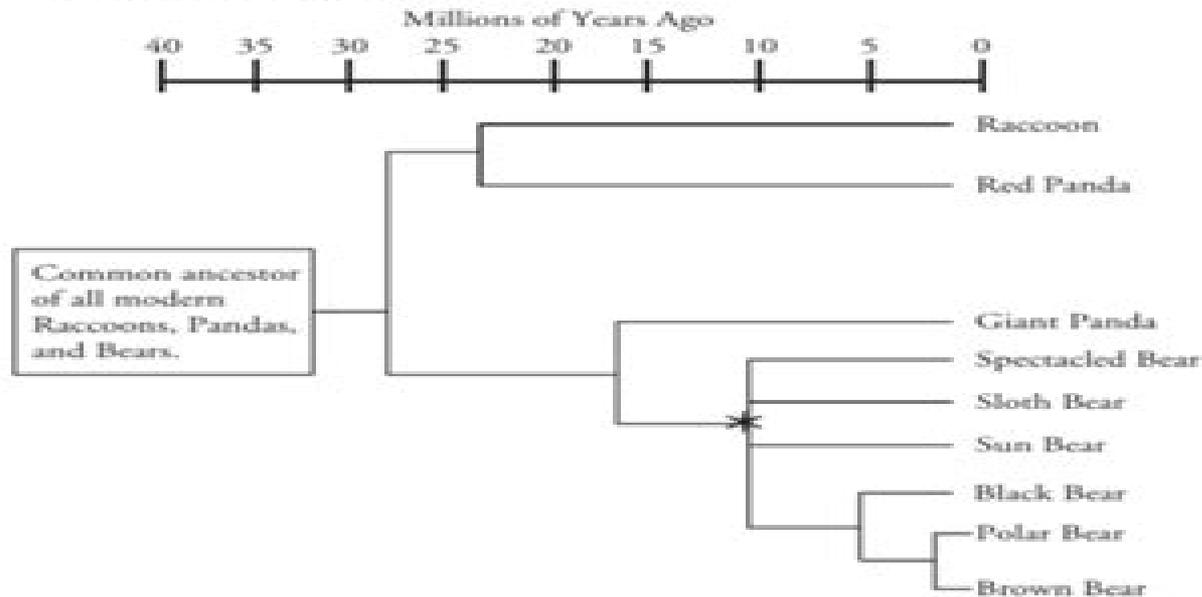
# Phylogenetic Trees

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.

# How To Phylogenetic Tree Bioscience Answer Key

**Daniela Niemeyer**



## **How To Phylogenetic Tree Bioscience Answer Key:**

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Life Sciences and Space Research XXII(1) COSPAR. Plenary Meeting, 1987 Biological Abstracts Jacob Richard Schramm, 1929 **Journal of Bioscience and Bioengineering**, 2000 The Phylogeny and Phylogeography of Two False-truffles, *Leucophleps spinispora* and *Hymenogaster subulacinus*, in the Great Basin, USA. Steven Robert Albee-Scott, 2005 **Biosciences**, 2007 *Genetics Abstracts*, 2001 **Molecular and Cellular Biology**, 2004 **Journal of Scientific and Industrial Research**, 1993

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