

## 18.3 Building the Tree of Life

### Lesson Objectives

-  Name the six kingdoms of life as they are currently identified.
-  Explain what the tree of life represents.

### Lesson Summary

**Changing Ideas About Kingdoms** As biologists learned more about the natural world, they realized that Linnaeus's two kingdoms, Animalia and Plantae, did not represent all life.

- ▶ Researchers found that microorganisms were very different from plants and animals. They were placed in their own kingdom, called Protista.
- ▶ Then, yeast, molds, and mushrooms were separated from plants and placed in their own kingdom, called Fungi.
- ▶ Because bacteria lack nuclei, mitochondria, and chloroplasts, they were separated from Protista and placed in another new kingdom, called Monera.
- ▶ In the 1990s, kingdom Monera was divided into two kingdoms: Eubacteria and Archaeobacteria. The six-kingdom system of classification includes the kingdoms Eubacteria, Archaeobacteria, Protista, Fungi, Plantae, and Animalia.
- ▶ Genetic analysis revealed that two prokaryotic groups are even more different from each other, and from Eukaryotes, than previously thought. This discovery led to the creation of a new taxon, called the domain. The **domain** is a larger, more inclusive category than a kingdom. The three domain system consists of: Bacteria, Archaea, and Eukarya.
- ▶ Domain Bacteria corresponds to the kingdom Eubacteria. Domain Archaea corresponds to the kingdom Archaeobacteria. Domain Eukarya corresponds to kingdoms Fungi, Plantae, Animalia, and "Protista."
- ▶ Quotations are used for the old kingdom Protista to signify that it is not a valid clade.

**The Tree of All Life** The tree of life shows current hypotheses regarding evolutionary relationships among taxa within the three domains of life.

- ▶ The domain **Bacteria** includes unicellular organisms without a nucleus. They have cell walls containing a substance called peptidoglycan.
- ▶ The domain **Archaea** also includes unicellular organisms without a nucleus. These organisms have cell walls that do not contain peptidoglycan.
- ▶ The domain **Eukarya** includes the four remaining kingdoms: "Protista," Fungi, Plantae, and Animalia. All members of the domain Eukarya have cells with a nucleus.
  - Most members of the kingdom "Protista," are unicellular organisms. Some Protista are photosynthetic; others are heterotrophs.
  - Most members of the kingdom Fungi are multicellular, and all members of this kingdom are heterotrophs with cell walls containing chitin.
  - All members of the kingdom Plantae are multicellular and photosynthetic. Most plants cannot move about, and their cells have cell walls.
  - All members of the kingdom Animalia are multicellular heterotrophs. Most animals can move about, and their cells lack cell walls.

# 18 3 Building The Tree Of Life Teacher Book

**David Baud**



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States had already been saying about the nascent urbanization that would continue to transform the nation's landscape that the modern city dramatically changes the way individuals interact with and feel toward one another. An antiurbanist discourse would pervade American culture for years to come, echoing Olmsted's skeptical view of the emotional value of urban relationships. But as more and more people moved to the nation's cities, urbanists began to confront this pessimism about the ability of city dwellers to connect with one another. *The Sociable City* investigates the history of how American society has conceived of urban relationships and considers how these ideas have shaped the cities in which we live. As the city's physical and social landscapes evolved over the course of the late nineteenth and twentieth centuries, urban intellectuals developed new vocabularies, narratives, and representational forms to express the social and emotional value of a wide variety of interactions among city dwellers. Turning to source materials often overlooked by scholars of urban life—including memoirs, plays, novels, literary journalism, and museum exhibits—Jamin Creed Rowan unearths an expansive body of work dedicated to exploring and advocating the social configurations made possible by the city. His study aims to better understand why we have built and governed cities in the ways we have and to imagine an urban future that will effectively preserve and facilitate the interpersonal associations and social networks that city dwellers need to live manageable, equitable, and fulfilling lives. Educational Times, 1898

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