

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 *Archaeabacteria*. The six-kingdom system of classification includes the kingdoms *Eubacteria*, *Archaeabacteria*, *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 lead 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 *Archaeabacteria*. 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.

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David Baud

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When celebrated landscape architect Frederick Law Olmsted despaired in 1870 that the restraining and confining conditions of the city compelled its inhabitants to look closely upon others without sympathy he was expressing what many in the United

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