
Chapter 11

The Prokaryotes: Domains Bacteria and Archaea

Bergey's Manual of Systematic Bacteriology is the standard reference for bacterial taxonomy. At this time a second edition, based upon a phylogenetic system, is replacing the phenotypic system based upon morphologic characteristics. The new phylogenetic system is based mostly on differences in ribosomal RNA (rRNA). Ribosomal RNA is slow to change and performs the same functions in all microbes. Comparisons of DNA are sometimes useful at the species and genus level.

In the second edition of *Bergey's Manual* the prokaryotes are grouped into two domains, the Archaea and the Bacteria (formerly Eubacteria). Both domains are bacteria in the sense that they are prokaryotic cells. Eukaryotic multicellular and unicellular organisms are in the domain Eukarya.

The Proteobacteria

The proteobacteria, which include most of the gram-negative, chemoheterotrophic bacteria, are presumed to have arisen from a common photosynthetic ancestor. Few are now photosynthetic.

The α -(alpha) Proteobacteria

Azospirillum. *Azospirillum* is a soil bacterium that grows in close association with roots, especially of tropical grasses. They use excreted nutrients and aid plant growth by fixation of atmospheric nitrogen.

Acetobacter and *Gluconobacter*. The genera *Acetobacter* and *Gluconobacter* are industrially important aerobic bacteria that convert ethanol into acetic acid (vinegar).

Rickettsia. *Rickettsias* are gram-negative, obligately intracellular parasites, frequently pathogenic; they are responsible for diseases known as the spotted fever group. They are often transmitted to humans by bites of insects or ticks. Among rickettsial diseases are epidemic typhus caused by *Rickettsia prowazekii* (louseborne), endemic murine typhus caused by *Rickettsia typhi* (rat-flea-borne), and Rocky Mountain spotted fever caused by *Rickettsia rickettsii* (tickborne).

Ehrlichia. The ehrlichiae are gram-negative, rickettsiallike bacteria that live obligately within white blood cells. They cause the tickborne disease ehrlichiosis.

Caulobacter and *Hyphomicrobium*. Both *Caulobacter* and *Hyphomicrobium* produce prominent prosthecae, a term applied to protrusions such as stalks or buds. Caulobacteria are found in aquatic environments such as lakes. They feature stalks that anchor them to surfaces. This increases their nutrient uptake in these low-nutrient environments. *Caulobacter* reproduction results in one stalked cell and one flagellated swarmer cell, which eventually becomes another stalked cell. *Hyphomicrobium* bacteria, which divide by budding, increase in size until separating into new cells, and are found in low-nutrient waters.

Biology Study Guide Prokaryotes Bacteria And Archaea

Edward J. Zalisko



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