

## Chapter 27: Bacteria and Archaea

- 27.1 Describe structural and functional adaptations of prokaryotes.
- 27.2 Identify sources of genetic diversity in prokaryotes.
- 27.3 Give examples of nutritional and metabolic adaptations in prokaryotes.
- 27.4 Identify major phylogenetic groups of prokaryotes.
- 27.5 Describe ecological roles played by prokaryotes.
- 27.6 Give examples of beneficial and harmful effects that prokaryotes have on humans.

This chapter will help you better understand the prokaryotes, and how they differ from eukaryotes. Throughout your study of biology, prokaryotes will be used to explain fundamental processes, and their importance in techniques of molecular biology cannot be overstated.

**Study Tip:** The opening chapter figure describes four characteristics that enable prokaryotes to reach huge population sizes and thrive in many different environments. List them here and keep them in mind as you work through this important chapter. Return to this list and add details as you find them on subsequent pages.

### Concept 27.1 Structural and functional adaptations contribute to prokaryotic success

#### LO 27.1: Describe structural and functional adaptations of prokaryotes.

1. Which two domains include *prokaryotes*?
2. Let's focus on some general characteristics of *prokaryotes*.
  - a. Are they multicellular or unicellular?
  - b. Compare their size relative to eukaryotic cells.
  - c. What three shapes are most common? Label them on the figure.
  - d. What is the composition of the typical bacterial cell wall?
3. A key feature of prokaryotic cells is the *cell wall*. What three functions does it provide for the cell?



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