

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.

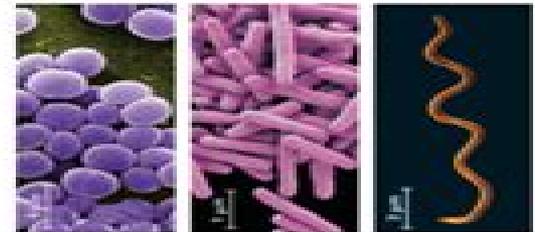
This chapter will help you better understand the prokaryotes, and how they differ from eukaryotes. Throughout your study of biology, prokaryotes will be used to explain fundamental processes, and their importance in techniques of molecular biology cannot be overstated.

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*?
Bacteria and Archaea
2. Let's focus on some general characteristics of *prokaryotes*.
 - a. Are they multicellular or unicellular? unicellular
 - b. Compare their size relative to eukaryotic cells.
Prokaryotes are .5microm -5 microm in diameter.
Eukaryotes are 10-100 micrometers.
 - c. What three shapes are most common? Label them on the figure.
Spherical, rod shaped, and spiral
 - d. What is the composition of the typical bacterial cell wall?
Most contain peptidoglycan, a polymer modified by sugars cross linked by short polypeptides.



Spherical, rod shaped, and spiral

Chapter 27 Bacteria And Archaea Reading Guide

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