

## Chapter 27: Bacteria and Archaea

- 27.1: Structural and functional adaptations contribute to prokaryotic success
  - The first organisms to inhabit Earth were prokaryotes that lived 3.5 billion years ago
  - Most prokaryotes are unicellular, although the cells of some species remain attached to each other after cell division
  - Prokaryotic cells typically have diameters of 0.5–5  $\mu\text{m}$ , much smaller than the 10–100  $\mu\text{m}$  diameters of many eukaryotic cells
  - Variety of shapes, well organized
  - Cell walls maintain cell shape, protect the cell, and prevent it from bursting in hypotonic environments
  - **peptidoglycan**: polymer composed of modified sugars cross-linked by short polypeptides; contained in most bacterial cell walls
    - Archaeal cell walls contain a variety of polysaccharides and proteins but lack peptidoglycan
    - **Gram stain**: a technique used to determine the amount of peptidoglycan in a cell-wall; 18th-century Hans Christian Gram; allows scientists to categorize bacterial species
      - **Gram-positive**: have simpler walls w/ lg contents of peptidoglycan
      - **Gram-negative**: have complex walls w/ less peptidoglycan
      - Valuable tool in medicine for quickly determining a patient's infection
  - **capsule**: a sticky, thick layer of polysaccharide or protein that surrounds the cell wall of many prokaryotes
  - **slime layer**: not as well organized as a capsule
  - Both capsules and slime layers allow prokaryotes to adhere to their substrate or to other individuals in a colony
  - **endospores**: resistant cells developed by bacteria when they lack an essential nutrient
  - **fimbriae**: hairlike appendages that allow some prokaryotes to stick to each other or their substrate
  - **pili**: appendages that pull two cells together prior to DNA transfer from one cell to the other
  - **taxis**: a directed movement toward or away from a stimulus
    - They may move toward nutrients or oxygen (**positive chemotaxis**)
    - They may move away from a toxic substance (**negative chemotaxis**)

# Chapter 27 Bacteria And Archaea Biology Junction

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