

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 μm , much smaller than the 10–100 μm 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**)

Campbell Biology Chapter 27 Bacteria And Archaea

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