

Section 1

Lesson 1

1. List several characteristics of prokaryotic cells.

Domain of Archaea and Bacteria**Bacteria – Prokaryotic**

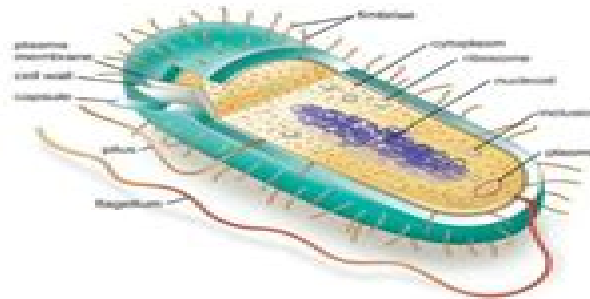
- Don't have a nucleus
- Doesn't have membrane-bound organelles
- Asexual reproduction
- Aren't multicellular

Could have the following structures:

- Tightly bound chromosomes
- Pilus (fimbria)
- Ribosomes
- Inclusions -have single, circular
- Flagellum chromosomal DNA
- Plasmids
- Cytoplasm
- Cell membrane
- Cell wall
- Capsule or slime layer



Outside of
cell

**Most bacterial structures are virulence factors**

- Something that the bacteria possess that makes them more pathogenic (their ability to cause disease)

Flagellum:

- Movement
- Can have 1 or multiple flagellum
- Runs and tumbles
- Could be a virulence factor – if a bacteria causing a UTI has a flagella, it can swim into the bladder

Pili:

- Hair-like structures that surround the cell
- Contain adhesin so they can stick to cells, other bacteria, or surfaces (safety in numbers)
- Pili allows some bacteria to conjugate with others, thus exchanging genetic information. This occurs in the form of a plasmid. Conjugation can occur between different bacterium species

Capsule (Slime layer)

- On the outside of the cell wall
- Can be thick and sticky
- This is a virulence factor because it gives protection to the bacterial cell.
- The capsule protects the cell from phagocytosis because the phagocytes can't eat the capsule

Cell wall:

- Made of peptidoglycan (and other materials)
- Makes the cell wall rigid
- Gives bacteria its shape
- Peptidoglycan protects the cell from bursting when it finds itself in a hypertonic solution

Cell Membrane:

- Allows for transport of substances in and out of the cell
- On nearly all cells!
- It's more flexible than the cell wall
- It is a selective permeable membrane; good stuff comes in, waste goes out, and ideally prevents bad stuff from entering the cell.

- a. **osmotic pressure:** occurs because of differences in concentration of solutes on opposing sides of a semipermeable membrane. water can pass through this membrane, but solutes (salts, sugars, and other compounds) cannot. When concentration is greater on one side, water diffuses from the side with more water to less water until they're equal

Study Guide Section 1 Bacteria

JR Anderson



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