

Bacterial Cell Structure and Function

Moes, K. MED182

Prokaryote

One circular chromosome not in a membrane
No organelles
Peptidoglycan cell walls
Binary fission
No histones

Eukaryote

Paired chromosomes in nuclear membrane
Organelles
Polysaccharide walls
Mitosis
Histones

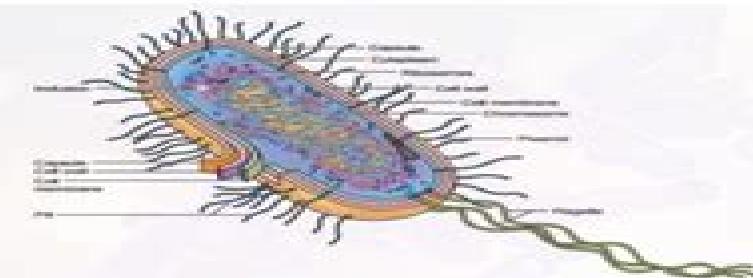


FIGURE 3-16. A typical prokaryotic cell.

Peptido= peptides

Glycan= polysaccharide

Histones= proteins that coil DNA.

Usual size of bacteria:

0.2 – 2 μ m in diameter

2 – 8 μ m in length

Three levels to consider bacterial structure

1. External Structures → Appendages (Flagella, Fimbriae, Pili) and Glycocalyx

2. Cell envelope proper → Cell wall and cell membrane

3. Internal Structures → Chromosomes, plasmids, cytoplasmic granules and inclusions

Plasmids- are extra genetic materials

1. External Structures

- Glycocalyx
- Flagella
- Fimbriae
- Pili

A. Glycocalyx – Bacterial Surface Coating

- Coating of molecules external to the cell wall.
- Made of sugar and/or proteins.
- "Pericellular matrix"
- Gel-like layer that coats the cell wall.
- Greek:
 - *Kalukos* pod/ husk
- Two types:
 - **Slime layer**
 - Loosely organized and attached.
 - Gel easily washed off from cell envelope.
 - Bacteria are protected from dehydration and loss of nutrients.
 - **Capsule**
 - Highly organized tightly attached.
 - Gel firmly adherent to cell envelope.
 - Gross appearance: mucoid colonies
 - With greater pathogenicity than slime layer.
 - Evades phagocytosis

B. Flagella- Bacterial Propellers

- It is the organ of locomotion in bacterial cell and consists of three parts.
 - **Flagellum**- long, thin, helical structure composed of protein.
 - **Hook**- curved sheath
 - **Basal body**- stack of rings firmly anchored in cell wall

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George A. Wistreich

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