

Bacterial Cell Structure and Function

Maes, K. MED182

Prokaryote	Eukaryote
One circular chromosome not in a membrane	Paired chromosomes in nuclear membrane
No organelles	Organelles
Peptidoglycan cell walls	Polysaccharide walls
Binary fission	Mitosis
No histones	Histones

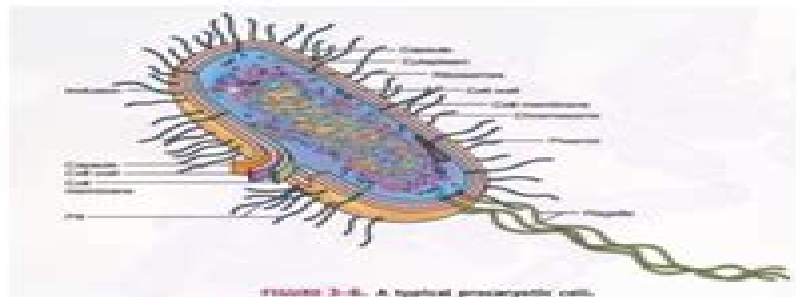


FIGURE 3-16. A typical prokaryotic cell.

Peptido= peptides

Glycan= polysaccharide

Histones- proteins that coil DNA

Usual size of bacteria;

0.2 – 2 μ L in diameter

2 – 8 μ L 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

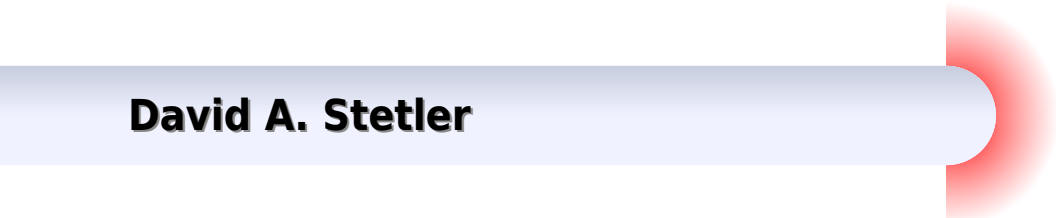
- Coating of molecules external to the cell wall.
- Made of sugar and or proteins.
- "Pericellular matrix"
- Gel-like layer that coats the cell wall.
- **Greek:**
 - Kalux= pod/ husk
- Two types:
 - **Slime layer**
 - Loosely organized and attached.
 - Gel easily washed off from cell envelope.
 - Bacteria 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.
 - ❖ **Filament**- long, thin, helical structure composed of protein.
 - ❖ **Hook**- curved sheath
 - ❖ **Basal body**- stack of rings firmly anchored in cell wall

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David A. Stetler



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