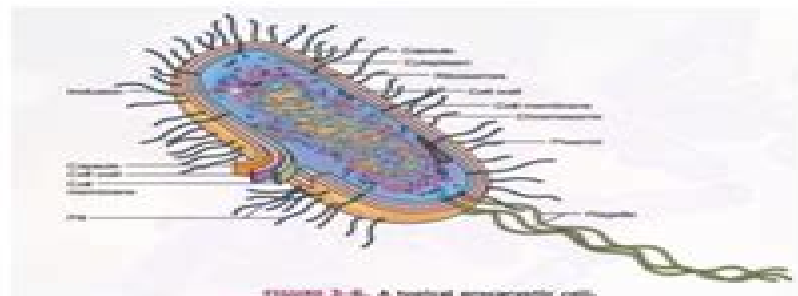


# Bacterial Cell Structure and Function

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                               |



Peptido= peptides

Glycan= polysaccharide

Histones- proteins that coil DNA

Usual size of bacteria;

0.2 – 2  $\mu$ L in diameter

2 – 8  $\mu$ 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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**Herbert Levin**



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