

# Bacterial Cell Structure and Function

Moes, 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

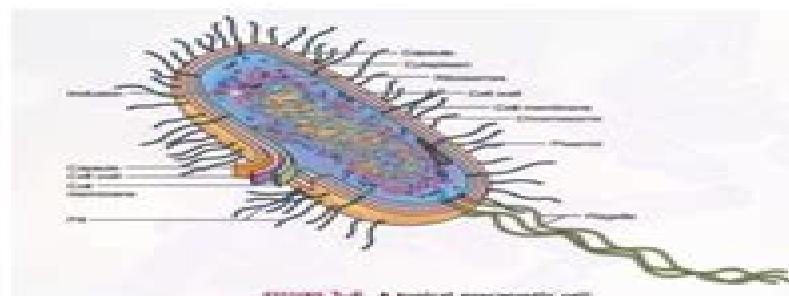


FIGURE 3-16. A typical prokaryotic cell.

Peptido= peptides

Glycan= polysaccharide

Histones= proteins that coil DNA.

Usual size of bacteria:

0.2 – 2  $\mu$ m in diameter

2 – 8  $\mu$ m in length

Three levels to consider bacterial structure

1. External Structures → Appendages (Flagella, Fimbriae, Pilus) 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
- Pilus

### 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:
  - *Kaluxos* 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

# Study Guide Section Bacteria

**Brigitte Niedzwiecki, Julie Pepper**

## **Study Guide Section Bacteria:**

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Note-Taking / Reading Study Guide McDougal-Littell Publishing Staff, 2004-04-20     **Study Guide, Biology of Microorganisms, Fifth Edition, Thomas D. Brock & Michael T. Madigan** Allan Konopka, Thomas D. Brock, 1988

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Cano, Jaime S. Colomé, 1985-02      **Study Guide to Accompany Microbiology, Fourth Edition** George A. Wistreich, 1984

**Tintinalli's Emergency Medicine: A Comprehensive Study Guide, Seventh Edition** Judith Tintinalli, J.

Stapczynski, O. John Ma, David Cline, Rita Cydulka, Garth Meckler, 2010-11-12 The landmark emergency medicine text is now in full color 17 additional chapters available for download With 418 contributors representing over 120 medical centers around the world Tintinalli's Emergency Medicine is the most practical and clinically rigorous reference of its kind It covers everything from prehospital care disaster preparedness and basic resuscitative techniques to all the major diseases requiring emergency treatment such as pulmonary emergencies renal and GU disorders and hemophilia This authoritative in depth coverage makes this classic text indispensable not only in emergency departments but also for residents and practitioners when studying or preparing for any exam they may face While continuing to provide the most current information for acute conditions the seventh edition of Tintinalli's Emergency Medicine has been substantially revised and updated to cover all of the conditions for which patients seek emergency department care in a concise and easy to read manner NEW Features Full color design with more figures and tables than ever Reader friendly chapter presentation makes it easy to find important material Updated tables covering drugs and important clinical information Patient safety considerations and injury prevention are integrated into chapters as appropriate Total revision of the dermatology section enables diagnosis by lesion description and body area affected and provides current treatment Organ systems sections reorganized to reflect considerations for actual clinical practice New chapters New adult chapters include Natural Disasters Aneurysms of the Aorta and Major Arteries Hip and Knee Pain Aortic Dissection Acute Urinary Retention Subarachnoid Hemorrhage and Intracranial Bleeding Clotting Disorders Community acquired Pneumonia and Noninfectious Pulmonary Infiltrates Type I Diabetes Type II Diabetes Anemia Tests of Hemostasis Clotting Disorders Head Injury in Adults and Children the Transplant Patient Grief Death and Dying and Legal Issues in Emergency Medicine Twelve new pediatric chapters including The Diabetic Child Hematologic Oncologic Emergencies Ear and Mastoids Eye Problems in Infants and Children Neck Masses GI Bleeding Nose and Sinuses Urologic and Gynecologic Procedures in children Renal emergencies in children Behavioral and Psychiatric Disorders in children Pediatric Procedures Pediatric ECG Interpretation Greater coverage of procedures throughout for the most common conditions seen in the emergency department Available content for download includes an additional 17 chapters such as Hyperbaric Oxygen Therapy Principles of Imaging Prison Medicine Military Medicine The Violent Patient Forensics Wound Ballistics and Drug Interactions Free downloads also feature videos and animations for

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