

## Bacteria Study Guide

### What are Bacteria?

- **Prokaryotic Cells:** Simple cells lacking a nucleus and membrane-bound organelles.
- **Ubiquitous:** Found in virtually every environment on Earth.
- **Diverse:** Vast array of shapes, sizes, and metabolic capabilities.

### Structure of a Bacterial Cell

- **Cell Wall:** Provides shape and protection, made of peptidoglycan.
  - **Gram-positive:** Thick peptidoglycan layer.
  - **Gram-negative:** Thin peptidoglycan layer with an outer membrane.
- **Cell Membrane:** Controls the movement of substances in and out of the cell.
- **Cytoplasm:** Gel-like substance containing the cell's components.
- **DNA:** Genetic material located in the nucleoid region.
- **Ribosomes:** Sites of protein synthesis.
- **Other Structures:**
  - **Flagella:** Whip-like appendages for movement.
  - **Pili:** Hair-like appendages for attachment.
  - **Capsule:** Protective outer layer in some bacteria.
  - **Plasmids:** Small, circular DNA molecules carrying extra genes.

### Classification of Bacteria

- **Shape:** Coccus (spherical), Bacillus (rod-shaped), Spirillum (spiral).
- **Metabolism:**
  - **Autotrophs:** Make their own food (e.g., cyanobacteria).
  - **Heterotrophs:** Obtain food from other sources (most bacteria).
- **Oxygen Requirements:**
  - **Aerobic:** Require oxygen for growth.
  - **Anaerobic:** Cannot grow in the presence of oxygen.
  - **Facultative Anaerobes:** Can grow with or without oxygen.

### Bacterial Reproduction

# Section Bacteria Study Guide

**Yi-Tong Ma**



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