#### 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 ENA molecules carrying extra genes.

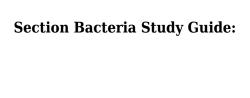
#### Classification of Bacteria

- 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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