

# MICROBIOLOGY

## Organisms & Evolution

- Microbiology: The study of living things too small to see with the naked eye
- The three main divisions of life are Bacteria, Archaea, eukaryotes and viruses
- Most of life's history is now available to us from their study of the phylogenetic tree



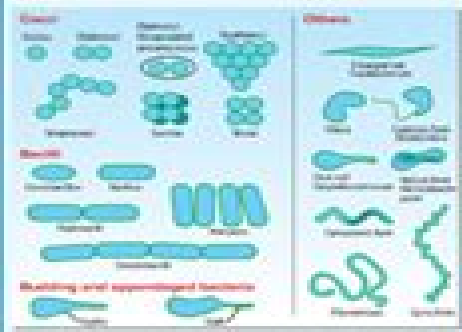
Characteristics	Bacteria	Archaea	Eukarya	Viruses
Size	0.5 - 10 micrometers	0.5 - 10 micrometers	10 - 100 micrometers	10 - 100 nanometers
Cell wall	Yes	Yes	No	No
Membrane	Yes	Yes	Yes	No
Reproduction	Binary fission	Binary fission	Mitosis/Meiosis	Binary fission
Genetic material	DNA	DNA	DNA	DNA/RNA
Metabolism	Autotrophic	Autotrophic	Heterotrophic	Parasitic
Antibiotic resistance	Yes	Yes	No	No
Cellular respiration	Yes	Yes	Yes	No
Photosynthesis	Yes	Yes	No	No
Flagella	Yes	Yes	Yes	No
Cellular organelles	No	No	Yes	No
Cellular structure	Prokaryotic	Prokaryotic	Eukaryotic	Non-cellular
Cellular function	Prokaryotic	Prokaryotic	Eukaryotic	Non-cellular

- ### Bacteria
- Most are first cells on Earth
  - 0.5 micrometers to 10 micrometers in size
  - Have the most abundant forms of life
  - Flagella have been found growing under more than 100 different kinds of cells
  - Reproduction: binary
  - There are thousands of different species in one gram of soil
  - Cells are prokaryotic, including cell wall, in the flagella and endospores
  - Most are autotrophic, some are heterotrophic
  - Some are pathogenic, some are symbiotic
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
- ### Eukarya
- Most are single cells (e.g., yeast, algae, and protozoa) and multicellular (e.g., fungi, plants, and animals)
  - Cells are eukaryotic, including cell wall, in the flagella and endospores
  - Most are autotrophic, some are heterotrophic
  - Some are pathogenic, some are symbiotic
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
- ### Viruses
- Many are viruses, but some are not (e.g., they can replicate themselves and cause diseases)
  - Most are single cells (e.g., yeast, algae, and protozoa) and multicellular (e.g., fungi, plants, and animals)
  - Cells are eukaryotic, including cell wall, in the flagella and endospores
  - Most are autotrophic, some are heterotrophic
  - Some are pathogenic, some are symbiotic
  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)
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  - Some are used in biotechnology (e.g., they can make antibiotics, insulin, and other drugs)

## Shapes & Types

### Bacterial & Archaeal Cell Shapes

- Cocci: Spherical
- Bacilli: Rod-shaped
- Spirilli: Spiral-shaped
- Phenotypes: Multiple shapes in prokaryotes



- ### Growth Characteristics
- Single: Cells growing alone in suspension or on a solid surface
  - Paired: Cells growing in pairs in suspension or on a solid surface
  - Chains: Cells growing in chains in suspension or on a solid surface
  - Clusters: Cells growing in clusters in suspension or on a solid surface
  - Flagella: Cells with flagella in suspension or on a solid surface
  - Endospores: Cells with endospores in suspension or on a solid surface

- ### Eukaryotic Types
- Ciliates: Cells with cilia in suspension or on a solid surface
  - Flagellates: Cells with flagella in suspension or on a solid surface
  - Protozoa: Cells with flagella in suspension or on a solid surface
  - Algae: Cells with flagella in suspension or on a solid surface
  - Fungi: Cells with flagella in suspension or on a solid surface
  - Plants: Cells with flagella in suspension or on a solid surface
  - Animals: Cells with flagella in suspension or on a solid surface



- Algae: Cells with flagella in suspension or on a solid surface
- Fungi: Cells with flagella in suspension or on a solid surface
- Plants: Cells with flagella in suspension or on a solid surface
- Animals: Cells with flagella in suspension or on a solid surface
- Protozoa: Cells with flagella in suspension or on a solid surface
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- Plants: Cells with flagella in suspension or on a solid surface
- Animals: Cells with flagella in suspension or on a solid surface
- Protozoa: Cells with flagella in suspension or on a solid surface

8.5 in x 11 in  
21.6cm x 28cm

# Microbiology Specialist Study Guide

**Barbara M. Castleberry, Mary E.  
Lunz, Patricia A. Tanabe**



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