

# MICROBIOLOGY

Discover the science of microorganisms

## Organisms & Evolution //

**Microbiology:** The study of living things too small to see with the naked eye.

- The four main divisions of life are Bacteria, archaea, eukaryotes, and viruses.
- Each division's DNA is more similar to its own than to any of the other three.



Characteristic	Bacteria	Archaea	Eukaryotes	Viruses
Size	0.2 - 5 micrometers	0.2 - 2 micrometers	5 - 500 micrometers	1000 - 10,000 micrometers
Nucleus	No	No	Yes	No
Genetic material	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	Yes	Not found	Yes	Not found
Mitochondria	Small, unique	Small, never like eukaryotes	Large	No
Membrane-bound organelles	No	No	Yes	No
RNA polymerase	Simple, 2 subunits	More complex, 8 subunits	Most complex, 12 subunits	Depends on genome size/organism
Genes without intron/exon borders	Yes	Yes	Yes	No
Microscopic resolution of cells	1	1	Many	Non-cellular
Cell wall	Peptidoglycan	Surrounded by peptidoglycan	Cellulose, chitin, proteins, mucus	None

### Bacteria

- Were the first cells on Earth.
- Contain over 20 different phyla (major groupings)
  - Are the most abundant form of life.
  - People have more bacteria growing on them than human cells.
- Incredibly diverse
  - There are thousands of different species in one gram of soil.
  - Live in most environments, including the deep sea, underground, and terrestrial.

### Archaea

- Relatively uncommon with fewer known species
  - Most common in extreme environments (e.g., deep sea vents and high salinity lakes).
  - Contain some features of prokaryotes and eukaryotes.
  - Often known as extremophiles and will grow where other organisms cannot.
- EX: Halophiles, salt loving; methanophiles, sulfur loving; thermophiles, heat loving; lithotrophs, rock loving; methanophiles, methane loving (methane gas)

### Eukaryotes

- May be single cells (e.g., yeast, algae, and amoebae) or multicellular (e.g., fungi, plants, and animals)
  - Contain membrane-bound subcompartments that separate specific functions, particularly the nucleus.
  - Division includes microeukaryotic organisms previously belonging to the Monera Kingdom.

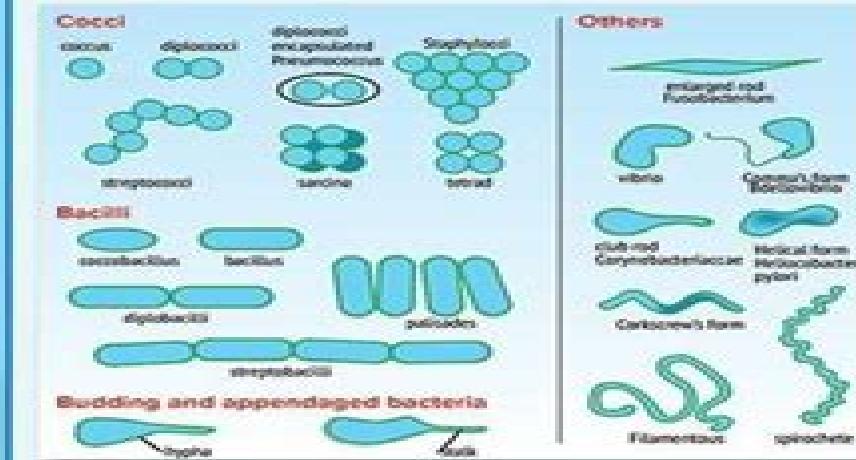
### Viruses

- Many feel viruses are not alive as they are obligate parasites and cannot replicate without other cells.
- Different viruses target all three domains.
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more virus particles, ultimately killing the host.

## Shapes & Types //

### Bacterial & Archeal Cell Shapes & Growth Characteristics

- Cocci: Spherical
- Bacilli: Rod-shaped
- Spirilli: Spiral-shaped
- Pleomorphs: Multiple shapes are possible



- Diplococci: Prefix meaning two; a diplococcus is two cocci that have grown together.
- Tetrads: Four cocci that grow together in a square.
- Sarcinae: Eight cocci that grow together in a cube.
- Streptococci: Prefix meaning chain; a streptococcus is cocci that have grown together in a chain.
- Staphylococci: Prefix meaning cluster; a staphylococcus is cocci that have grown together in a cluster.

### Eukaryotic Types

- Ciliates: Short cilia used for locomotion and feeding.
- Flagellates: Long flagella used for locomotion; usually there are only one or two per cell.
- Slime molds: Single cells living in a damp environment (e.g., under leaves in a forest) that come together during reproduction.



- Amoebae: Free-living cell that can change its shape and engulf its prey.
- Protozoa: Non-plant, non-fungi organisms (e.g., ciliates and flagellates).
- Algae: Photosynthetic organisms with a nucleus and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (e.g., diatoms).
- Diatoms: Photosynthetic eukaryote with a silicate cell wall often with a complex symmetrical pattern.
- Yeasts: Eukaryotic, single-celled, round fungi.
- Mold: Multicellular fungus which forms hair-like projections (hyphae) that may contain cross-walls (septate) or not (non-septate).

### Viral Shapes

- Helical: Spiral arrangement of protein capsid subunits that can appear rod-shaped

# Microbiology For Medical Technology Study Guide

**Minjie Lin**

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