

# MICROBIOLOGY

Discover the science of microorganisms

## Organisms & Evolution //

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

- The five 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—5 micrometers            | 1—100 micrometers             | 100—1000 micrometers         |
| Nucleus                      | No                 | No                           | Yes                           | No                           |
| Genetic Information          | DNA                | DNA                          | DNA or RNA                    |                              |
| Lipid Bilayer                | No                 | Substituted                  | No                            | Substituted                  |
| Polysaccharides              | Smooth, unique     | Smooth, more like eukaryotes | Large                         | No                           |
| Mitochondria                 | No                 | No                           | No                            | No                           |
| RNA Polymerase               | Simple, 3 subunits | More complex, 8 subunits     | More complex, 12 subunits     | Depend on protein: bacterial |
| Gene without membrane        | No                 | No                           | No                            | No                           |
| Membrane surrounds all cells | Yes                | Yes                          | Yes                           | Non-cellular                 |
| Cell wall                    | Peptidoglycan      | Surrounded by peptidoglycan  | Cellulose, non-cellular, none |                              |

### Bacteria

- Were the first cells on Earth.
- Contain over 50 different phyla (major groupings).
  - Are the most abundant form of life.
  - People have more bacteria growing on them than human cells.
- Extremely 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 when other organisms cannot.
- Ex: Halophiles, salt loving; sulfophiles, sulfur loving; thermotrophs, heat loving; lithotrophs, rock loving; methanophiles, methane loving (ruminant guts).

### 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.
  - Divisions includes microeukaryotic organisms previously belonging to the Monera kingdom.

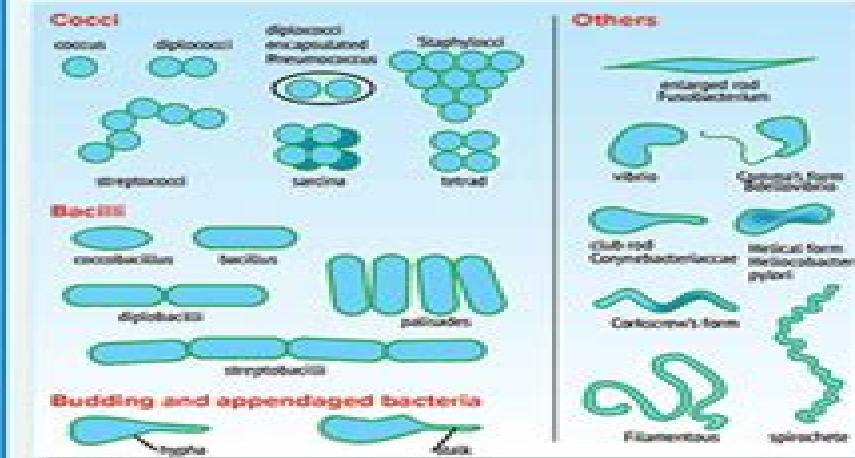
### Viruses

- 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 & Archival Cell Shapes & Growth Characteristics

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



- Diplococci: Prefix meaning two; a diplococcus is two cocci that have grown together.
- Tetrad: Four cocci that grow together in a cube.
- Sarcina: 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/or feeding.
- Flagellates: Long flagella used for locomotion; usually there are only one or three per cell.
- Slime molds: Single cells living in a damp environment (e.g., under leaves in a forest) that come together during replication.



- Amoebae: Free-living cell that can change its shape and engulf its prey.
- Flagellates: Nonplant, non-fungi organisms (e.g., ciliates and flagellates).
- Algae: Photosynthetic organisms with a nucleus and chlorophyll. Many are single cells, others are multicellular, but many forms are still microscopic (e.g., yeasts).
- Eukaryotes: Photosynthetic eukaryotes with a eukaryotic 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 asexually (conidia) or sex (conidia).

### Viral Shapes

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

# Microbiology Study Guide Key Review Questions And Answers

**Patrick Leonardi**

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