

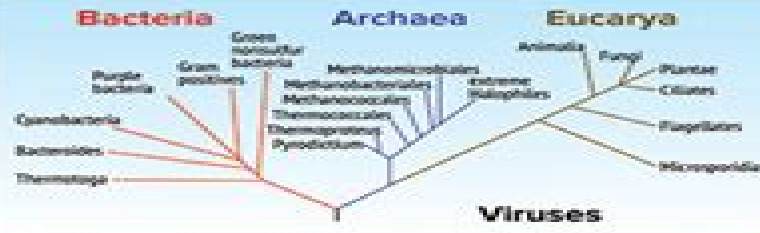
# MICROBIOLOGY

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, eukaryota, and viruses**
- Each division's DNA is more similar to its own than to any of the other three



Characteristic	Bacteria	Archaea	Eukaryota	Viruses
Size	0.2–10 micrometers	0.2–10 micrometers	1–90 micrometers	0.05–0.3 micrometers
Nucleus	No	No	Yes	No
Genetic information	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	Yes	Modified	Yes	No
Ribosomes	Small, unique	Small, more like eukaryotes	Large	No
Membrane-bound organelles	No	No	Yes	No
RNA polymerase	Simple, 3 subunits	More complex, 8 subunits	Most complex, 12 subunits	Depends on genetic material
Gene within outside help	Yes	Yes	Yes	No
Maximum number of cells	1	1	Many	Non-cellular
Cell wall	Peptidoglycan	Several different forms	Cellulose, sometimes none	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/in 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)
- Combine some features of prokaryotes and eukaryotes
- Often known as **extremophiles** and will grow when other organisms cannot
- EN: 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 amoebas) or multicellular (e.g., fungi, plants, and animals)
  - Contain membrane-bound subcompartments that separate specific functions, particularly the nucleus
  - Division includes microscopic organisms previously belonging to the Monera kingdom

### Viruses

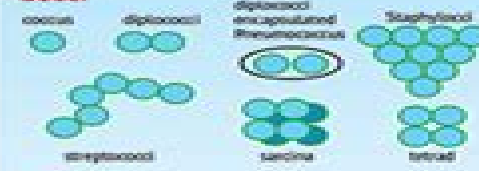
- Many feel viruses are not alive as they are obligate parasites and cannot replicate without other cells
- Different viruses target all three domains
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more virus particles, ultimately killing the host

## Shapes & Types //

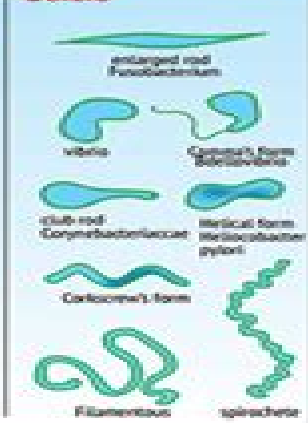
### Bacterial & Archeal Cell Shapes & Growth Characteristics

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

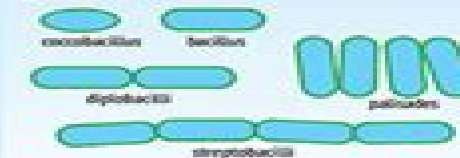
#### Cocci



#### Others



#### Bacilli



#### Budding and appended bacteria



- Diplo-** Prefix meaning two; a **diplococcus** is two cocci that have grown together
- Tetrad:** Four cocci that grow together in a plane
- Sarcinae:** Eight cocci that grow together in a cube
- Strepto-** Prefix meaning chain; a **streptococcus** is cocci that have grown together in a chain
- Staphylo-** Prefix meaning cluster; a **staphylococcus** is cocci that have grown together in a cluster

### Eukaryotic Types

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



- Amoeba:** Free-form cell that can change its shape and engulf its prey
- Protist:** Non-plant, non-fungi organism (e.g., ciliates and flagellates)
- Algae:** Photosynthetic organisms with a nuclei and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., volvox)
- Diatoms:** Photosynthetic eukaryote with a silicate cell wall often with a complex symmetrical pattern
- Yeast:** Eukaryotic, single-celled, round fungi
- Mold:** Multicellular fungus which forms hair-like projections (hyphae) that may contain crosswalls (septate) or not (non-septate)

### Viral Shapes

- Icosahed:** Spiral arrangement of protein capsid molecules that can appear rod-shaped

# Study Guide And Microbiology

**Lansing M. Prescott, John P.  
Harley, Donald A. Klein**



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Klein,2004-02 This is an introduction to the major areas of microbiology and is designed for students of medicine dentistry nursing and allied health Knowledge of biology and chemistry are prerequisites There is updated coverage in this edition of clinical microbiology with corresponding photographs *Diagnostic Bacteriology* Margaret A. Bartelt,1999-01-01 Organized in a concise simplified manner using an outline format to organize the material this text emphasizes the role of the clinical microbiology laboratory in diagnosing and treating diseases Bacteria e g gram positive anaerobic etc and laboratory procedures e g antimicrobial agents and susceptibility tests are clustered in seven unique sections Chapter study questions and a 100 question comprehensive exam are included **Microbiology Terminology and Definitions (Speedy Study Guide)** Speedy Publishing LLC,2014-11-01 If you are a student studying Microbiology you may be greatly helped by a Microbiology Terminology and Definitions Study Guide as it can help you to focus and remember key terms that are going to be important to know when a big test arrives These study guides also organize the information in a format that makes it easier for you to understand and conceptualize the concepts that you are learning about in school Consider looking into purchasing such a study guide for your Microbiology course **Microbiology Study Guide Set** Jacquelyn G Black,1999-08-01 **Telecourse Study Guide for Unseen Life on Earth** Berdell R. Funke,Christine L. Case,Gerard J. Tortora,1999-01 Each unit in the Study Guide connects concepts from the Unseen Life on Earth video programs to Tortora Funke Case Microbiology An Introduction Sixth Edition to form an integrated learning package Students are encouraged to become active learners through a variety of tools such as labeling figures concept mapping and review questions Appropriate exercises and activities from the text and companion website Student Tutorial CD ROM and Bacteria ID CD ROM are also included **Microbiology Study Guide Set** Jacquelyn G. Black,1996-01-01 Microbiology/Pathology National Learning Corporation,2020-03-15 **Study Guide to Accompany Microbiology, Third Ed. by Nester, Roberts, Lidstrom, Pearsall and Nester** Martha T. Nester,Eugene W. Nester,1983 A study guide Foundations in Microbiology Student Study Guide Kathleen Park Talaro,2006-12

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