

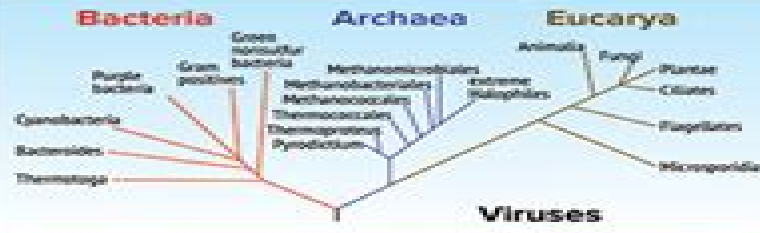
# MICROBIOLOGY

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	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 body	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; **sulfolobiles**, sulfur loving; **thermostrophs**, heat loving; **halotrophs**, rock loving; **methanophilic**, 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

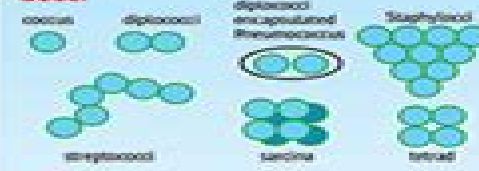
- Many feel viruses are not alive as they are obligate parasites and cannot replicate without other cells
- Different viruses target all three domains
- Viruses may use DNA or RNA as genetic material and use molecules from the host cell to make more virus particles, ultimately killing the host

## Shapes & Types //

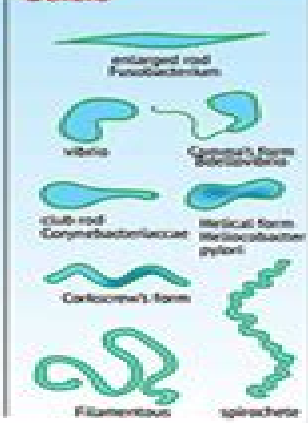
### Bacterial & Archeal Cell Shapes & Growth Characteristics

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

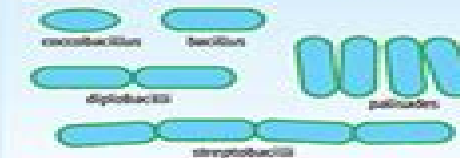
#### Cocci



#### 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
- **Mush:** 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

# Clinical Microbiology Study Guide

**Warren Levinson**



## **Clinical Microbiology Study Guide:**

**Microbiology Study Guide** Lansing M. Prescott, John P. Harley, Donald A. 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 *Medical Microbiology* Samuel Baron, 1996-01-01 Microbiology Speedy Publishing, 2014-09-04 A Microbiology study guide is a learning resource that is recommended to be used in a microbiology course The study guide is used in correspondence with the course textbook the material matching what is found in the textbook and in the course Microbiology study guide includes important definitions flash cards study games and diagrams to help learn the material in your course The study guide can contribute to your success in microbiology by focusing on the important material you need to know to learn the material and to pass the exams The study guide can help to boost your grade to the next level **Study Guide for Bailey and Scott's Diagnostic Microbiology - E-Book** Betty A. Forbes, Daniel F. Sahn, Alice S. Weissfeld, 2016-06-30 Corresponding to chapters in Bailey Scott s Diagnostic Microbiology 12th Edition this new guide reviews important topics and helps students master key material It includes chapter objectives a summary of key points review questions and case studies Material is presented in an engaging format that challenges students to apply their knowledge to real life scenarios Type Source Promotion Chapter Objectives open each chapter providing a measurable outcome to achieve by completing the material A summary of Key Points from the main text helps students clearly identify key concepts covered in each chapter Review Questions in each chapter test students on important knowledge in addition to key terms and abbreviations Case studies in each chapter offer challenging questions for further analysis and challenge students to apply their knowledge to the real world *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 **Review of Medical Microbiology and Immunology, Seventeenth Edition** Warren E. Levinson, Peter Chin-Hong, Elizabeth A. Joyce, Jesse Nussbaum, Brian Schwartz, 2022-04-05 Ace your medical courses and pass the Boards with the most up to date review of medical microbiology and immunology This trusted popular guide provides a high yield review of the most important aspects of microbiology and immunology in a concise yet comprehensive style Review of Medical Microbiology and Immunology covers both basic and clinical aspects of bacteriology virology mycology parasitology and immunology Important infectious diseases are discussed using an organ system approach The effective mix of engaging narrative text color images tables figures Q As and clinical vignettes make this an invaluable proven one stop guide to mastering the application of microbiology and immunology to infectious diseases

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