

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	Protein	Protein	Protein	No
Cell wall	Peptidoglycan	Surfactant, stiffness, toxins	Cellulose, interactions, toxins	No

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.

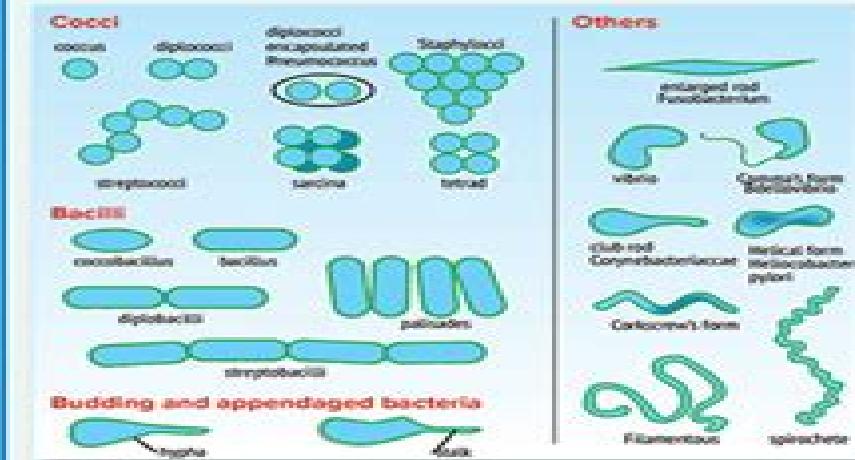
Viruses

- 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).
- Slime molds: Photosynthetic eukaryotes with a eukaryotic cell wall often with a complex, symmetrical pattern.
- Yeasts: Eukaryotic, single-celled, round fungi.
- Molds: Multicellular fungi which form 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.

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

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Table of Contents Study Guide And Microbiology

1. Understanding the eBook Study Guide And Microbiology
 - The Rise of Digital Reading Study Guide And Microbiology
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide And Microbiology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Study Guide And Microbiology
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide And Microbiology
 - Personalized Recommendations
 - Study Guide And Microbiology User Reviews and Ratings
 - Study Guide And Microbiology and Bestseller Lists
5. Accessing Study Guide And Microbiology Free and Paid eBooks
 - Study Guide And Microbiology Public Domain eBooks
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6. Navigating Study Guide And Microbiology eBook Formats
 - ePub, PDF, MOBI, and More
 - Study Guide And Microbiology Compatibility with Devices
 - Study Guide And Microbiology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Study Guide And Microbiology
 - Highlighting and Note-Taking Study Guide And Microbiology
 - Interactive Elements Study Guide And Microbiology
8. Staying Engaged with Study Guide And Microbiology

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Study Guide And Microbiology

9. Balancing eBooks and Physical Books Study Guide And Microbiology

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Study Guide And Microbiology

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Study Guide And Microbiology

- Setting Reading Goals Study Guide And Microbiology
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Study Guide And Microbiology

- Fact-Checking eBook Content of Study Guide And Microbiology
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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