

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	0.2–5 micrometers	1–90 micrometers	0.02–0.3 micrometers
Nucleus	No	No	Yes	No
Genetic information	DNA	DNA	DNA	DNA or RNA
Lipid bilayer	Yes	Modified	Yes	Sometimes
Ribosomes	Small, unique	Small, more like eukaryotes	Large	No
Membrane-bound organelles	No	No	Yes	No
RNA polymerase	Single, 3 subunits	More complex, 8 subunits	Most complex, 12 subunits	Depends on genetic material
Grow without 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
 - ECG: 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

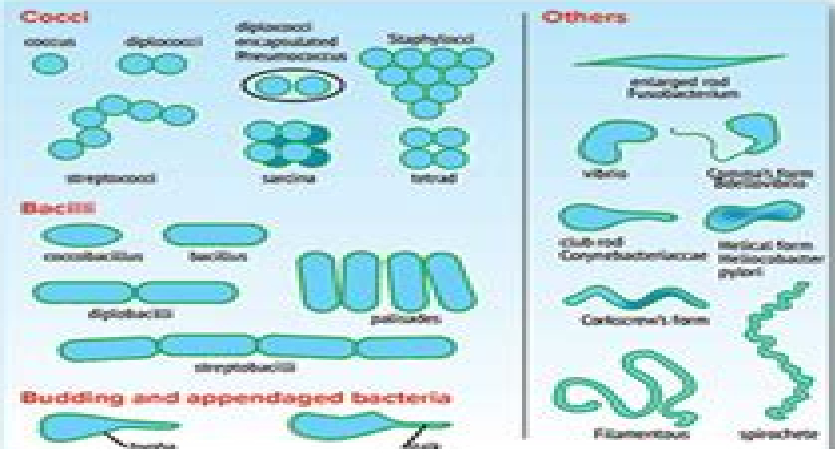
Viruses

- 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



- 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

- Ciliates:** Short cilia used for locomotion and/or 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 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 organism 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

Microbiology For Medical Technology Study Guide

Mary Ann Laun



Microbiology For Medical Technology Study Guide:

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Table of Contents Microbiology For Medical Technology Study Guide

1. Understanding the eBook Microbiology For Medical Technology Study Guide
 - The Rise of Digital Reading Microbiology For Medical Technology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology For Medical Technology Study Guide
 - 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 Microbiology For Medical Technology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology For Medical Technology Study Guide
 - Personalized Recommendations
 - Microbiology For Medical Technology Study Guide User Reviews and Ratings
 - Microbiology For Medical Technology Study Guide and Bestseller Lists

5. Accessing Microbiology For Medical Technology Study Guide Free and Paid eBooks
 - Microbiology For Medical Technology Study Guide Public Domain eBooks
 - Microbiology For Medical Technology Study Guide eBook Subscription Services
 - Microbiology For Medical Technology Study Guide Budget-Friendly Options
6. Navigating Microbiology For Medical Technology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbiology For Medical Technology Study Guide Compatibility with Devices
 - Microbiology For Medical Technology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbiology For Medical Technology Study Guide
 - Highlighting and Note-Taking Microbiology For Medical Technology Study Guide
 - Interactive Elements Microbiology For Medical Technology Study Guide
8. Staying Engaged with Microbiology For Medical Technology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology For Medical Technology Study Guide
9. Balancing eBooks and Physical Books Microbiology For Medical Technology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology For Medical Technology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microbiology For Medical Technology Study Guide
 - Setting Reading Goals Microbiology For Medical Technology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology For Medical Technology Study Guide
 - Fact-Checking eBook Content of Microbiology For Medical Technology Study Guide
 - 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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these regions of growth are good for studying the cell cycle because at any given time you can find cells that are undergoing mitosis in order to examine cells in the tip of an onion root a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible the cells you ll be looking at in this activity

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compare and contrast mitosis and meiosis both mitosis and meiosis are involved in making new cells both start with diploid 2 sets of chromosomes o interphase occurs before both duplicating chromosomes before division o both mitosis and meiosis go through pmat prophase metaphase anaphase telophase meiosis goes through pmat twice i

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the cell cycle results in the formation of two genetically identical daughter cells from the division of a parent cell in this lab you will be observing plant cells onion in the various stages of mitosis and make time calculations based on the data you collect

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mitosis introduction in this lab you will examine the dividing root tip cells of an onion you will examine the specimen to identify the various phases of the cell cycle to see which phases cells spend more time in and you will answer related analysis questions to further your understanding of the eukaryotic cell cycle pre lab

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sep 14 2021 the process of mitosis is only a short period of the lifespan of cells mitosis is traditionally divided into four stages prophase metaphase anaphase and telophase the actual events of mitosis are not discreet but occur in a continuous sequence separation of mitosis into four stages is merely convenient for our discussion and organization

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jul 25 2019 procedure 1 create a data table with the following headings across the top number of cells percentage of all cells time min and the stages of mitosis down the side prophase metaphase anaphase telophase 2 carefully put the slide on the microscope and focus it under low power 40x is preferred 3

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discuss the answers to the questions with a partner think pair share and then the class activity 2 observe the stages of mitosis in onion root cells plant cells also use mitosis for growth maintenance and repair

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after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells

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the onion root is also a good place because this is the area where the plant is growing remember that when cells divide each new cell needs an exact copy of the dna in the parent cell this is why mitosis is only visible in cells that are dividing like the whitefish embryo and the onion root tip mitosis can take several hours to complete

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exercise 1 observing mitosis under the microscope examine prepared slides of both plant cells onion allium root tip and animal cells whitefish blastula under the microscope at 400x

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in general mitosis occurs through several stages that include prophase divided into prophase and prometaphase metaphase anaphase telophase because of the rapid rate at which onion root tips grow as a result of rapid cell division it s possible to observe and identify the different stages of mitosis

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observing mitosis snab biology - Oct 14 2022

feb 7 2017 view under a microscope and identify the stages of mitosis results calculations the percentage of cells in each stage of mitosis can be observed and noted down a mitotic index can also be formed number of cells containing visible chromosomes total number of cells in the field of view conclusion

solved exercise 2 observing mitosis in cells chegg com - Jun 22 2023

exercise 2 observing mitosis in cells in this exercise you will observe the steps of mitosis in both plant and animal cells procedure review the images of onion root tip cells undergoing the different phases of mitosis shown in figure 10 figure 10 *study of mitosis in onion root tip cells cell division process* - Jun 10 2022

to study and demonstrate the mitotic type of cell division using the onion root tip cells mitosis results in the formation of two daughter cells that are identical to each other learn how the experiment is carried out

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