

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	0.2–5 micrometers	0.2–5 micrometers	3–60 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	Simple, 3 subunits	More complex, 8 subunits	Most complex, 12 subunits	Depends on genetic material
Grows without outside help	Yes	Yes	Yes	No
Minimum number of cells	1	1	Many	Non-cellular
Cell wall	Peptidoglycan	Synthesized from lipids	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 inside 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
 - Halophiles, salt loving; sulfophiles, sulfur loving; thermotrophs, heat loving; lithotrophs, rock loving; methanophiles, methane loving (mainly in guts)

Eukaryotes

- May be single cells (e.g., yeast, algae, and amoeba) 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

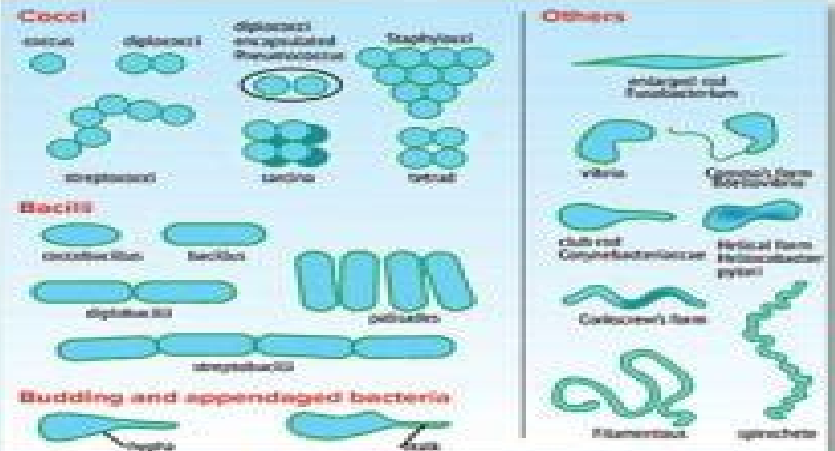
Viruses

- 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 & Archaeal Cell Shapes & Growth Characteristics

- Cocci: Spherical
- Bacilli: Rod-shaped
- Spirilli: Spiral-shaped
- Phenomena: 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
- Protists**: Non-plant, non-fungi organism (e.g., ciliates and flagellates)
- Algae**: Photosynthetic organisms with a nucleus 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
- Molds**: Multicellular fungus which forms hair-like projections (hyphae) that may contain crosswalls (septa) or not (non-septate)

Viral Shapes

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

Microbiology Labs Study Guides

Thomas Griffiths



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Microbiology - Biology 221 Robert Hairston, 2019-10-28 **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 **BOC Study Guide** ,2018 **Study Guide to Accompany the Microbial Perspective** Frank Whitehouse, 1982 *Laboratory Manual and Study Guide for Integrated Science for Health Students* T. Randall Lankford, 1976 Microbiology Lab Manual John Harley, 2010-02-01 Laboratory Exercises in Microbiology 8 e has been prepared to accompany Prescott s Microbiology 8e written by new authors Joanne Willey Linda Sherwood and Christopher Woolverton Like the text the laboratory manual provides a balanced introduction to laboratory techniques and principles that are important in each area of microbiology Study Guide and Laboratory Manual to Accompany Essentials of Diagnostic Microbiology Frances W. Ingersoll, Jacquelyn Marshall, 1998-11-12 This Study Guide and Laboratory Manual is designed to accompany Essentials of Diagnostic Microbiology It is subdivided into Part I Study Guide and Part II Laboratory Manual Together these parts will help you learn and reinforce your knowledge of diagnostic microbiology **Guide to Educational Resources for Laboratorians** ,1981 *National Library of Medicine Catalog* National Library of Medicine (U.S.), 1966 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977 **Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease** Barbara Janson Cohen, Memmler, 1996 **Study Guide to Accompany Pelczar, Chan, and Krieg: Microbiology** Noel R. Krieg, Michael Joseph Pelczar, 1986 Laboratory Experiments in Microbiology Ted R. Johnson, Christine L. Case, 1989
Laboratory Fundamentals of Microbiology I. Edward Alcamo, 2000-08 Microbiology Jacquelyn G. Black, 2006-07-01 *Biology/science Materials* Carolina Biological Supply Company, 1991 **Subject Guide to Books in Print** ,1996 Journal of the American Public Health Association ,1927 *Microbiology Perspectives* George A. Wistreich, 2007 This photo atlas covers in a systematic way a wide range of microorganisms and their activities Students learn the characteristics of various types of microorganisms covered in introductory microbiology along with pertinent information about microorganism caused disease bacterial fungal protozoan viral helminthic Abundant exercises help students learn to observe and recognize fundamental similarities and differences among microorganisms

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web chaplain aide chaplain aides assist the troop chaplain usually an adult from the troop committee or the chartered organization in serving the religious needs of the troop they lead the troop in opening or closing prayer and mealtime blessings

scout interfaith worship service resources garden state - Sep 04 2022

web scout interfaith worship service resources the following resources have been pulled from a variety of scout services found on the internet please select from among them or use your own ideas to create an interfaith worship service prepared by rev timothy b cargal ph d updated 10 2020 garden state council bsa call to worship psalms 100

interfaith worship services troop program resources - Aug 03 2022

web when present members of the clergy or chaplain aides may be asked to lead the troop or other scouting groups in prayer if the group consists of mixed beliefs or if the beliefs of the group are unknown then prayers should be of an interfaith content however if the group is of like belief then it is entirely appropriate to offer belief

handbook for chaplains and chaplain aides in boy scout troops - Jan 08 2023

web handbook for chaplains and chaplain aides in boy scout troops and venturing crews foreword the religious relationships task force of the boy scouts of america has developed and endorsed this handbook to guide religious leaders unit leaders and other volunteers in selecting and supporting chaplains and chaplain aides

prayers for use in the brotherhood of scouts - Oct 05 2022

web prayers for use in the brotherhood of scouts i pray for the brotherhood of scouts throughout the world for the chief scout and his council for commissioners and local associations for my own group for all other groups for all scouters rover scouts boy scouts and wolf cubs for all those who are members of the guide

chaplain aide book boy scouts of america daniel nehrbass - Jun 01 2022

web have you ever been asked to pray for a group but weren t sure what to say this book will help you do your job with quality and will make the position of chaplain aide worthwhile this book is packed with ideas for table graces classic prayers invocations benedictions song selections psalm readings and teaching topics

usssp reverent prayers graces u s scouting service - Jul 14 2023

web a scouter s thanksgiving prayer with reverance in our hearts we your many children of many beliefs united in common purpose gather to offer this our humble prayer in thanksgiving as scouters we are thankful for the many gifts and talents given to our fellow scouters and to ourselves the freedom we have to join together and as a team