

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 surrounds all cells	Yes	Yes	Yes	None
Cell wall	Peptidoglycan	Surrounded by peptidoglycan	Cellulose, non-cellulose, 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 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).
- Eukaryotes: Photosynthetic eukaryotes with a eukaryotic cell wall often with a complex, symmetrical pattern.
- Yeasts: Eukaryotic, single-celled, round fungi.
- Mold: Multicellular fungus which forms 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.

Microbiology Study Guide On

Jacquelyn G Black

Microbiology Study Guide On:

Study Guide for Bailey and Scott's Diagnostic Microbiology - E-Book Betty A. Forbes, Daniel F. Sahm, 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.

Microbiology Study Guide Set Jacquelyn G Black, 1996-08-01

Microbiology (Speedy Study Guide) Speedy Publishing LLC, 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.

Microbiology Study Guide Set Jacquelyn G.

Black, 1999-07-01 **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.

Alcamo's Fundamentals of Microbiology Jeffrey C. Pommerville, 2012-01-20 Ideal for allied health and pre nursing students. Alcamo's Fundamentals of Microbiology Body Systems Second Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known. Thoroughly revised and updated the Second Edition presents diseases complete with new content on recent discoveries in a manner that is directly applicable to students and organized by body system. A captivating art program includes more than 150 newly added and revised figures and tables while new feature boxes Textbook Cases serve to better illuminate key concepts. Pommerville's acclaimed learning design format enlightens and engages students right from the start and new chapter conclusions round out each chapter leaving readers with a clear understanding of key concepts.

Microbiology Study Guide Patrick Leonardi, 2010 **Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte Niedzwiecki, Julie Pepper, P. Ann Weaver, 2022-06-18 Designed to support the trusted content in Kinn's The Medical Assistant 14th Edition this study guide is the essential review and practice companion to

reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common administrative and clinical skills including new certification preparation questions that offer additional practice for certification exams a review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years as a key part of the student journey from classroom to career it also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Comprehensive coverage of all administrative and clinical procedures is built from Medical Assisting accreditation standards and competencies Hundreds of practice questions multiple choice true false fill in the blank help students with essential content review and practice Skills practice workplace applications and online activities promote critical thinking before students enter practice Procedure checklists help students track their performance of every procedure included in the textbook Work products allows students to provide documentation of skills mastery for classroom or job searching requirements Chapter by chapter correlation with the textbook allows students to easily follow core textbook competencies Perforated pages for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to reinforce key foundational knowledge NEW Expanded content on medical office accounts collections banking and practice management prepares students to step into the role of a Medical Assistant NEW Certification Preparation questions help students focus on certification from the beginning of their studies NEW Streamlined presentation combines chapters and focuses on need to know content **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 **Basic Microbiology** R. Wilson Gorham,Wesley A. Volk,1992-01-01

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Pommerville,2007-01-01 **Microbiology Essentials** Lauren Gross,Tammy McCormick,2013-01-01 REA's Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Microbiology includes the history of microbiology equipment and techniques diversity of

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