

# 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

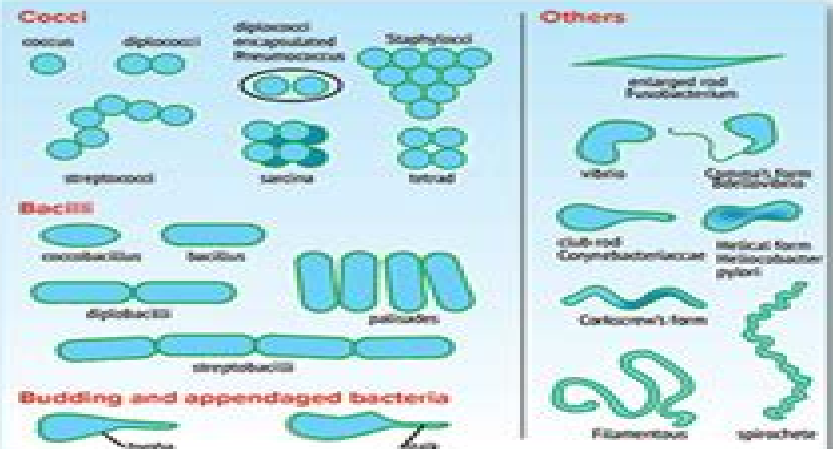
### Viruses

- 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
- Protoist: 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 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  
*Alcamo's Fundamentals of Microbiology* Jeffrey C. Pommerville,2004 Pommerville biology and microbiology Glendale Community College provides new infectious disease coverage with material on mad cow disease SARS and West Nile fever plus a new chapter on genetic engineering and bacterial genomics for this seventh edition of a text for introductory microbiology courses that emphasize the biology of human disease

*Alcamo's Fund of Microbiology* Jeffrey C. 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

microorganisms genetics metabolism transport of molecules role of microbes in disease microbes in the environment and microbes in industry      **Microbiology Study Guide** Elizabeth Machunis-Masuoka,2004      *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      *Basic Microbiology Study Guide* Harry E. Peery,Margaret A. Singer,1986-01-01      **Student**

**Study Guide to accompany Microbiology: Principles and Explorations, 6th Edition** Jacquelyn G. Black,Larry M. Lewis,2005-08-01 Work more effectively and gauge your progress as you go along This Student Study Guide that is designed to accompany Black s Microbiology Principles Explorations 6th Edition helps students to more closely examine important concepts through a variety of activities and exercises The 26 chapters in this study guide parallel those of the textbook and include many activities quizzes and exercises for review and study Jackie Black s bestselling text Microbiology Principles Explorations brings microbiology to life with its special attention to lively applications and real life connections It covers such areas as microbial growth multicellular parasites control of microorganisms host microbe interactions infectious diseases and applied microbiology The Sixth Edition is also updated to include new sections on bioterrorism microbial genetics and immunology arming readers with the latest examples and information      **Foundations in Microbiology Student Study**

**Guide** Kathleen Park Talaro,2006-12      Study Guide for Microbiology Berdell R. Funke,1982      Critical Care Study Guide Gerard J. Criner,Rodger E. Barnette,Gilbert E. D'Alonzo,2010-06-27 Critical care medicine is a dynamic and exciting arena where complex pathophysiologic states require extensive knowledge and up to date clinical information An extensive knowledge of basic pathophysiology as well as awareness of the appropriate diagnostic tests and treatments that are used to optimize care in the critically ill is essential Since our first edition 7 years ago new information crucial to the care and understanding of the critically ill patient has rapidly accumulated Because this knowledge base crosses many different disciplines a comprehensive multidisciplinary approach presenting the information is essential similar to the multidisciplinary approach that is used to care for the critically ill patient We have strived to provide this content in an easily digestible format that uses a variety of teaching tools to facilitate understanding of the presented concepts and to enhance information retention To meet the demand to provide comprehensive and diverse education in order to understand the pathogenesis and optimum care of a variety of critical illnesses we have substantially revised the prior topics in the first edition with updated information We have also markedly expanded the number of topics covered to include acute lung injury and the acute respiratory distress syndrome an expanded discussion of the physiology and operation of mechanical ventilation obstetrical

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