

MICROBIOLOGY

Discover the science of microorganisms

Organisms & Evolution 2

- Microbiology: The study of living things too small to see with the naked eye.
- The three main divisions of life are **Bacteria**, **Archaea**, **eukaryotes**, and **viruses**.
- Each division is divided into many smaller groups called **phyla**.



Characteristic	Prokaryotes	Archaea	Eukaryotes	Viruses
Size	0.2—5 micrometers	0.2—5 micrometers	5—50 micrometers	0.001—0.1 micrometers
Prokaryotes	None	None	None	None
Genetic material	DNA	DNA	DNA	DNA and RNA
Linear genome	None	None	None	None
Reproduction	Binary fission	Binary fission	Binary fission	None
Metabolism	Prokaryotic	Prokaryotic, some like eukaryotes	Prokaryotic	None
Microscopic organisms	None	None	None	None
RNA—protein complex	Simple, 2 subunits	Simple complex, 3 subunits	Simple complex, 12 subunits	Depends on protein associated
Chromatin—histone bridge	None	None	None	None
Membrane—cell wall	None	None	None	None
Cell wall	Peptidoglycan	Protein—peptidoglycan	Cellulose—heteropolysaccharide, protein	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 intergalactic

Architecture

- 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.

Ex: Halophiles, salt loving; sulfophiles, sulfur loving; thermophiles, heat loving; lithophiles, rock loving; methanophiles, methane loving; dominants, proto

Experiments

- May be simple 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.
 - Division includes microscopic organisms previously belonging to the Monera kingdom.

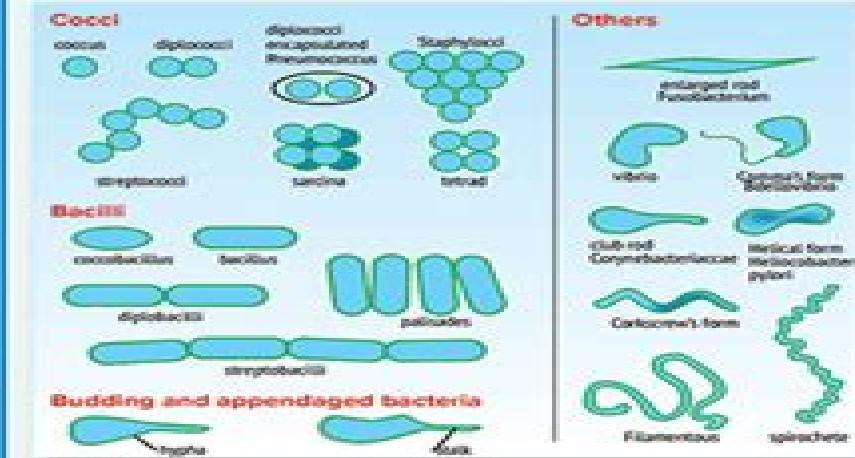
2000-2001

- Many viral 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 16

Bacterial & Archaeal Cell Shapes & Growth Characteristics

- Concrete Spherical
- Basaltic: Moon-shaped
- Spherulitic: Spindle-shaped
- Phenocrystic: Relatively clean and rounded



- Diplotax: meaning two; a diplotaxose is two cocci that have grown together
- Tetrads: Four cocci that grow together in a square
- Strands: Eight cocci that grow together in a cube
- Streptococci: meaning chains; a streptococcosis is cocci that have grown together in a chain
- Staphylococci: meaning clusters; a staphylococcosis is cocci that have grown to collect in a cluster

Marketplace Types

- **Chloroplasts:** Small cell-like used for photosynthesis and for recycling.
- **Microvilli:** Long finger-like used for locomotion; usually there are only one or two per cell.
- **Miller module:** Single cells living in a damp environment (e.g., under leaves in a forest) that come together during reproduction.



- **Amoebae:** Free-living cell that can change its shape and engulf its prey
- **Prokary:** Non-plant, non-fungal organisms (e.g., bacteria and archaea)
- **Algae:** Photosynthetic organisms with a nucleus and chloroplasts. Many are single cells, others are multicellular, but many forms are still microscopic (i.e., *volvox*)
- **Eukaryote:** Photosynthetic eukaryote with a nucleate cell wall often with a complex syncytial pattern
- **Yeasts:** Eukaryotes, single-celled, round fungi
- **Mold:** Multicellular fungus which forms root-like projections (hyphae) that may contain cross-walls (septate) or not (nonseptate)

Virtual Shopping

- **Efficiency:** Spatial arrangement and grouping of small microcolonies that can appear multi-chambered

Clinical Microbiology Study Guide

Warren Levinson

Clinical Microbiology Study Guide:

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 *Medical Microbiology* Samuel Baron, 1996-01-01 **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 **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 *Diagnostic Bacteriology* Margaret A. Bartlett, 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 **Review of Medical Microbiology and Immunology,**

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Levinson's Review of Medical Microbiology and Immunology: A Guide to Clinical Infectious Disease, Eighteenth Edition Peter Chin-Hong,Elizabeth A. Joyce,Manjiree Karandikar,Mehrdad

Matloubian,Luis Alberto Rubio,Brian S. Schwartz,Warren E. Levinson,2024-02-16 Ace your medical courses and pass the Boards with the most up to date review of medical microbiology and immunology This trusted popular guide provides a high yield review of the most important aspects of microbiology and immunology in a concise yet comprehensive style Levinson's Review of Medical Microbiology and Immunology covers both basic and clinical aspects of bacteriology virology mycology parasitology and immunology Important infectious diseases are discussed using an organ system approach The effective mix of engaging narrative text color images tables figures Q As and clinical vignettes make this an invaluable proven one stop guide to mastering the application of microbiology and immunology to infectious diseases This updated edition reflects the latest research treatment and developments new cases and more Content is valuable to any study objective or learning style Essential for USMLE review and medical microbiology coursework 650 USMLE style practice questions NEW additional

clinical cases illustrate the importance of basic science information in clinical diagnosis Concise summaries of medically important organisms Chapter ending self assessment questions and answers REVISED color images that depict clinically important findings **Review of Medical Microbiology and Immunology 15E** Warren E. Levinson, Peter

Chin-Hong, Elizabeth Joyce, Jesse Nussbaum, Brian Schwartz, 2018-05-10 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product The most concise clinically relevant and current review of medical microbiology and immunology Review of Medical Microbiology and Immunology is a succinct high yield review of the medically important aspects of microbiology and immunology It covers both the basic and clinical aspects of bacteriology virology mycology parasitology and immunology and also discusses important infectious diseases using an organ system approach The book emphasizes the real world clinical application of microbiology and immunology to infectious diseases and offers a unique mix of narrative text color images tables and figures Q A and clinical vignettes Content is valuable to any study objective or learning style Essential for USMLE review and medical microbiology coursework 650 USMLE style practice questions test your knowledge and understanding 50 clinical cases illustrate the importance of basic science information in clinical diagnosis A complete USMLE style practice exam consisting of 80 questions helps you prepare for the exam Pearls impart important basic science information helpful in answering questions on the USMLE Concise summaries of medically important organisms Self assessment questions with answers appear at the end of each chapter Color images depict clinically important findings such as infectious disease lesions Gram stains of bacteria electron micrographs of viruses and microscopic images depict fungi protozoa and worms Chapters on infectious diseases from an organ system perspective *Clinical Infectious Diseases Study Guide* Joseph

Domachowske, Manika Suryadevara, 2020-08-05 This book is meticulously designed for the busy student trainee or seasoned physician looking to enhance or refresh skills in infectious diseases It is intended to provide a solid resource for students and physicians in need of a concise yet comprehensive background of the material Each chapter begins with a summary of the topic a brief case description definitions critical teaching points and tables figures photos and other visual materials to reinforce learning The chapters take a systems based approach to infections before concluding with the essentials of diagnostic microbiology to leave users with a practical toolkit for real world clinics Authored by two expert educators and dual infectious diseases and pediatrics specialists Clinical Infectious Diseases Study Guide is the only updated study guide designed for medical students fellows residents and trainees who need a strong foundation in infectious diseases This includes infectious disease specialists in both adult and pediatric care various internal medicine subspecialists and hospitalists **Review of Medical Microbiology and Immunology, Thirteenth Edition, SMARTBOOK™** Warren Levinson, 2014-06-05 The most concise clearly written and up to date review of medical microbiology and immunology Essential for USMLE review and medical microbiology coursework Review of Medical Microbiology and Immunology is a

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Medical Microbiology, Study Guide and Laboratory Manual Charles Wesley Buggs, 1959. **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. **Microbiology Study Guide** Arshad Iqbal, 2018-02-09. Microbiology study guide has 600 MCQs. Microbiology quick exam prep quiz questions and answers. MCQs on mycobacteria, mycology, bacteria, mycoplasma, nematodes, viruses, classification, urogenital, protozoa, mycoses, parasitology, pathogenesis, hepatitis, virus replication, in viruses, bacterial infections, and medical microbiology. MCQs and quiz are to practice exam prep tests. Microbiology multiple choice quiz questions and answers. Microbiology exam revision and study guide with practice tests for online exam prep and interviews. Microbiology interview questions and answers to ask to prepare and to study for jobs.

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