

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 microns	0.2–5 microns	1–90 microns	0.02–0.3 microns
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

Study Guide For Clinical Microbiology

Kumaresan Veliah



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Manual of Clinical Microbiology, 4 Volume Set Karen C. Carroll, Michael A. Pfaller, 2024-11-19 Revised by a collaborative international interdisciplinary team of editors and authors this edition of the Manual of Clinical Microbiology includes the latest applications of genomics and proteomics and is filled with current findings regarding infectious agents leading edge diagnostic methods laboratory practices and safety guidelines This edition also features four new chapters Diagnostic Stewardship in Clinical Microbiology Salmonella Escherichia and Shigella and Morganellaceae Erwiniaceae Hafniaceae and Selected Enterobacterales This seminal reference of microbiology continues to set the standard for state of the science laboratory practice as the most authoritative reference in the field of microbiology If you are looking for online access to the latest from this reference or site access for your lab please visit www.wiley.com/learn/clinmicronow

A Guide to the Study of Basic Medical Mycology Kee Peng Ng, Shiang Ling Na, Tuck Soon Soo-Hoo, 2014-09-11 Mycotic diseases are gaining importance because of the increase in opportunistic fungal infections in patients whose immune systems are compromised The identification of fungi isolated from clinical material has posed a variety of problems to many laboratories because of lack of expertise and experience especially in the identification of recently emerged rare fungi that had not been previously reported A Guide to the Study of Basic Medical Mycology offers an overview of the basic characteristics of fungi frequently isolated from clinical specimens This comprehensive guide developed by authors Kee Peng Ng Tuck Soon Soo Hoo and Shiang Ling Na from the Department of Medical Microbiology University Malaya Medical Centre Malaysia details the macro and microscopic features of each fungus through graphics and illustrations Including specimens not often found in all teaching modules A Guide to the Study of Basic Medical Mycology serves to help medical students identify and learn to deal with clinically important fungi and fungal pathogens

Guide to Educational Resources for Laboratorians, 1984

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 Technology Examination

Review and Study Guide Anna P. Ciulla,Georganne K. Buescher,1992 This self examination review is designed to prepare students for exams such as the US National Certificate Examinations Over 200 multiple choice and objective questions are accompanied by detailed explanations The new edition features a practice exam and additional case study questions

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 *New perspectives in clinical microbiology* W. Brumfitt,2012-12-06 If the organizers of the excellent symposium on which this book is based had wanted to devise an appropriate dramatic opening they could not have done better than to have the first speaker fail to appear because he was incarcerated in his high security isolation unit caring for a patient suffering from green monkey disease In his consequently undelivered paper now published in this book he understandably dwells a little on the place both philosophical and physical of the laboratory in the investigation of highly transmissible infections and this subject characterizes the two themes that run through the chapters of this book the relative roles of microbiologist and clinician in the investigation and management of infected patients and the techniques management and diseases most recently to come under scrutiny In addition to some airing of the question which some of us regard as pressing as to what degree the microbiologist should be clinical and the clinician microbiological there is welcome attention by the clinical haematologist and immunologist to humoral and cellular factors in infection that are acknowledged to be crucial but relatively understudied New looks at old diseases urinary infections urethritis and enteritis and at an old drug metronidazole for new indications are all provided by authors who are at the advancing fronts of those sUbjects The proceedings completely updated and revised for this publication seem to me to have been entirely successful in capturing the stimulation and enjoyment of the excellent and instructive symposium *Medical Microbiology MCQs* Kumaresan Veliah,2005-11-01 This

book covers about 3500 multiple choice questions from different areas of Medical Microbiology in a simple and lucid style It will be of much use for USMLE step 1 and Postgraduate entrance examinations in USA Canada Australia India UK and other countries It includes nine chapters on medical microbiology **Current Catalog** National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 **Manual of Commercial Methods in Clinical Microbiology** Allan L. Truant,2001-12-18 A general resource for all subdisciplines of clinical microbiology to use when evaluating commercial methods tests or procedures Reviews all the commercially available tests both manual and automated in the discipline of clinical microbiology Includes a description of the sensitivities specificities and predictive values from peer reviewed sources Features separate chapters devoted to molecular microbiology information management emerging infectious diseases and veterinary clinical microbiology **Medical microbiology, virology and immunology** T. V. Andrianova,V. V. Bobyr,V. V. Danyleichenko,2019-01-01 The textbook was compiled in accordance with officially approved teaching programs for microbiology virology and immunology in all faculties of higher medical schools Questions of general microbiology basic methods of studying microorganisms morphology structure and classification of bacteria their physiology the influence of physical chemical and biological factors on microorganisms microbial genetics and biotechnology antimicrobials and the concept of infection and special microbiology morphology physiology pathogenic properties of pathogens of many infectious diseases modern methods of their diagnostics specific prevention and therapy The textbook also contains sections on virology protozoology mycology and helminthology which examine the basic biological properties of the causative agents and the diseases they cause A significant part of the textbook is devoted to questions of immunology nonspecific resistance of the organism the doctrine of antigens the immune system of the body immune response immunity reactions allergy and other types of immune responses immunodiagnostics and immunocorrection immunoprophylaxis and immunotherapy The textbook contains sections on clinical and sanitary microbiology examines the ecology of microorganisms the normal microbiota of the human body and the effect of microorganisms on the fetus Separate sections are devoted to the microbiota of the oral cavity and microbiological research in stomatological and pharmaceutical fields The textbook is intended for students of medical universities relevant departments of higher education of doctors interns and microbiologists of all specialties **The Royal Marsden Manual of Clinical Nursing Procedures, Student Edition** Sara Lister,Justine Hofland,Hayley Grafton,Catherine Wilson,2021-06-01 The student edition of The Royal Marsden Manual of Clinical Nursing Procedures has been the definitive market leading textbook of clinical nursing skills for fifteen years This internationally best selling title sets the gold standard for nursing care providing the procedures rationale and guidance required by pre registration students to deliver clinically effective patient focused care with expertise and confidence With over two hundred detailed procedures which reflect the skills required to meet The Standards of Proficiency for Registered Nurses NMC 2019 this comprehensive manual presents the evidence and underlying theory alongside full colour illustrations and a range of learning activities

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