

INTRODUCTION

What is Microbiology?

Microbiology is the study of living creatures too small to see with the naked eye. This division of biology includes the study of bacteria, fungi, protozoa, algae, viruses and other important invisible creatures.

Why Study Microbiology?

No living creature can separate itself from interactions with microbes. We use them to help create pharmaceuticals, clean up hazardous waste, and make food products. They can also wreak havoc on all creatures by invading them and causing disturbance and infection. Understanding the way they function is vital to life on earth.

HISTORY OF MICROBIOLOGY

1820 Deodorants used to reduce putrefaction. Sodium hypochlorite used in Parisian morgues to reduce decay.

1840 Ignaz Semmelweis, a Viennese physician, was supervising medical students in the maternity wards when he noticed a correlation between putrefaction in autopsy and puerperal fever in pregnant women. He also noticed that some physicians found higher rates of puerperal fever in their patients. He, along with Oliver Wendell Holmes in the US, suggested that all of the physicians wash their hands between patients. Few complied and many more women died in childbirth.

1850 Louis Pasteur, a very bright brewer trying to make the best beer in France, noticed that it was microorganisms that fermented sugar to alcohol. When incorrect microbes were in the mixture, undesirable products resulted. He proceeded to culture bacillus anthracis and proved it to be a causative agent of the disease anthrax.

1860 Joseph Lister, an English surgeon, using data gathered in operating rooms and from old bandages he picked up in the dumpsters outside hospitals, proposed that infections were due to "germs." Found around patients. He began to use carbolic acid (phenol) to wrap wounds and to spray the air around the patient, which killed what he called "septic germs." His work went unappreciated for years.

1890 Robert Koch, a German physician, continued on Louis Pasteur's work. He established that anthrax bacteria was always present in infected blood, that the infected blood could transmit anthrax, and the bacteria was isolatable outside the animal.

1940 Alexander Fleming discovered penicillin and used it to cure various diseases. Along with Ernst Chain and Howard Florey, he developed a production process.

1950 Joshua Lederberg, Edward Tatum, and George Beadle discovered and worked on genetic recombination in bacteria.

1960 Francois Jacob and Jacques Monod discovered and elucidated control of enzyme synthesis. They are credited with the Lac Operon model of genetic control of enzyme synthesis.

1980 Michael Bishop and Harold Varmus discovered that virus-encoded oncogenes originate in eukaryotic cells.

1985 Kary Mullis invents PCR, polymerase chain reaction, a technique to amplify any DNA sequence.

1997 Stanley Prusiner is awarded Nobel Prize for work on prions, "infectious proteins."

THE FIVE KINGDOMS

Monera

Includes bacteria and cyanobacteria

Protista

Includes dinoflagellates, amoeba, ciliates, heliophytes, diatoms

Fungi

Includes basidiomycetes, ascomycetes, yeast, slime molds, and other members

Plantae

Includes green algae, mosses, liverworts, ferns, angiosperms, gymnosperms

Animalia

Includes mollusks, arthropods, worms, vertebrates, insects

TYPES OF INFECTIVE AGENTS

Bacteria	Mycoplasmas	L. Forms
Fungi	Rickettsias	Viruses
Viruses	Spirochetes	Prions
Protozoa	Chlamydiae	DNA/RNA

HOW PROKARYOTES AND EUKARYOTES DIFFER

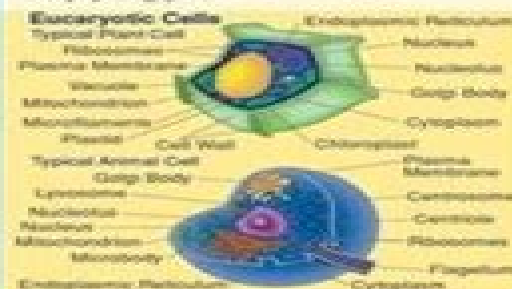
PROKARYOTES

No nucleus
Simple membrane
One chromosome
Bacteria - Bluegreen algae
Small diameter / 1-5um
No organelles
Ribosomes are 70S
Simple flagella
Conjugation, transduction, transformation
peptidoglycan in cell wall



EUKARYOTES

True nucleus
Complex, invaginated membrane
Multiple chromosomes
Algae/fungi/protozoa
Large diameter / 10-100um
Organelles
Ribosomes are 80S and 60S
9 x 2 microtubular flagella conjugation
No peptidoglycan



THE CELL THEORY

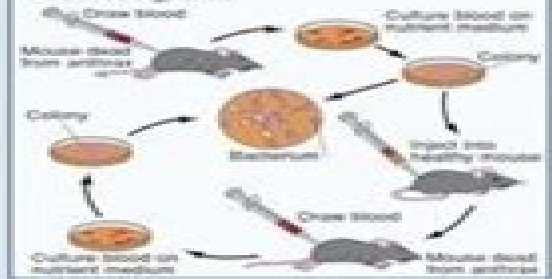
The cell theory, first put forth in the 1800's, has three main premises and states:

- All living things are made up of one or more cells.
- The cell is the basic unit of life.
- All cells come from pre-existing cells. A microbe can be one cell or a cluster or colony of cells that work together. Some pathogens are just infective pieces of RNA or DNA.

KOCH'S POSTULATES

To Prove A Microorganism Causes Disease:

- Identical microbe must be present in all individuals with the same disease.
- Microbe must be cultured outside the body.
- Microbe must induce disease when given to same species.
- Identical microbe must be isolated from newly diseased organism.



FOOD BORNE PATHOGENS

VIRUSES

Norwalk
Polio
Coxsackie
Echovirus
Hepatitis A

FUNGI

Aspergillus

PROTOZOA

Entamoeba
Giardia
Toxoplasma
Cryptosporidium
Balantidium

HELMINTHS

Trichina
Taenia
Tricostema
Nematodes

BACTERIA

Gram Positive Genera

Bacillus
Clostridia
Listeria

Gram Negative Genera

Escherichia
Salmonella
Klebsiella
Pseudomonas
Shigella
Campylobacter
Yersinia
Bacteroides
Brucella

GRAM NEGATIVE VS GRAM POSITIVE

Food Borne Bacterial Symptoms
Gram Positive (Usually Produce Toxins)
Headache, dizziness, uncoordinated movements, numbness and muscle incoherence
Gram Negative (Usually Result in Infection)
Abdominal cramps, nausea, vomiting, diarrhea, hemorrhagic stool, vomiting and nausea

Clinical Pathology Microbiology Study Guide

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BOC Study Guide ,2018 Clinical Pathology Board Review Steven L. Spitalnik,Suzanne Arinsburg,Jeffrey Jhang,2014-09-22 Clinical Pathology Board Review covers all of the major subject areas of clinical pathology presenting you with an essential study guide for certification or recertification Designed as a companion to Anatomic Pathology Board Review 2nd Edition this brand new medical reference book will be a welcome resource for pathology residents and practicing pathologists alike Understand all of the major subject areas of clinical pathology tested on the Clinical Pathology board exam including chemistry hematology coagulation microbiology immunology including HLA testing transfusion medicine including therapeutic apheresis cytogenetics and molecular diagnostics Prepare for the boards with help from multiple choice questions offered in a format that mimics that of the actual test Effectively grasp key concepts with questions that integrate various areas of clinical pathology as well as questions that bridge concepts in clinical pathology with those in anatomic pathology Understand why an answer is correct or incorrect with help from brief explanations accompanying each Review key concepts in laboratory medicine correlate them to the associated clinical or laboratory information and apply them to the diagnosis and management of human disease Designed as a companion to Anatomic Pathology Board Review 2nd Edition ISBN 9781455711406 **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.),1986

Clinical Virology Manual Richard L. Hodinka,Stephen A. Young,Benjamin A. Pinsky,2020-07-10 The definitive clinical virology resource for physicians and clinical laboratory virologists The clinical virology field is rapidly evolving and as a result physicians and clinical laboratory virologists must have a reliable reference tool to aid in their ability to identify and diagnose viral infections to prevent future outbreaks In this completely revised edition of the Clinical Virology Manual Editor in Chief Michael Loeffelholz along with Section Editors Richard Hodinka Benjamin Pinsky and Stephen Young have compiled expert perspectives of a renowned team of clinical virology experts and divided these contributions into three sections to provide the latest information on the diagnosis of viral infections including ebola HIV and Human papillomavirus state of the art diagnostic technologies including next generation sequencing and nucleic acid amplification methods taxonomy of clinically important viruses such as polyomaviruses and zoonotic viruses This comprehensive reference also includes three appendices with vital information on reference virology laboratories at the Centers for Disease Control and Prevention state and local public health laboratories and international reference laboratories and laboratory systems Additionally a new section Diagnostic Best Practices which summarizes recommendations for diagnostic testing and cites evidence based guidelines is included in each viral pathogens chapter Clinical Virology Manual Fifth Edition serves as a reference source to healthcare professionals and laboratorians in providing clinical and technical information regarding viral diseases and the diagnosis of viral infections **Mastering Medical Coding - E-Book** Marsha Diamond,2006-06-02 Expansion of ICD 9 CM information Sample patient charts include explanatory notes A simulated medical practice identified as Godfrey Regional lets

you study in a real world scenario Key Terms lists highlight the most important vocabulary and content More exercises

Clinical Practice Guidelines for Midwifery & Women's Health Tharpe, Cindy L. Farley, Robin G. Jordan, 2016-05-20

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section and 1968 1970 technical reports **A Comprehensive Guide to Toxicology in Nonclinical Drug Development** Ali S. Faqi, 2024-02-11 Selected for 2025 Doody's Core Titles in Toxicology A Comprehensive Guide to Toxicology in Nonclinical Drug Development Third Edition is a valuable reference providing a complete understanding of all aspects of nonclinical toxicology in pharmaceutical research This updated edition has been expanded and re developed covering a wide range of toxicological issues in small molecules and biologics Topics include ADME in drug discovery pharmacokinetics toxicokinetics formulations and genetic toxicology testing The book has been thoroughly updated throughout to reflect the latest scientific advances and includes new information on antiviral drugs anti diabetic drugs immunotherapy and a discussion on post pandemic drug development challenges and opportunities This is an essential and practical resource for all toxicologists involved in nonclinical testing in industry academic and regulatory settings Provides updated unique content not covered in one comprehensive resource including chapters on stem cells antiviral drugs anti diabetic drugs and immunotherapy Includes the latest international guidelines for nonclinical toxicology in both small and large molecules Incorporates practical examples in order to illustrate day to day activities and expectations associated with working in nonclinical toxicology **Manual of Diagnostic Antibodies for Immunohistology** Anthony Siew-Yin Leong, Kumarasen

Cooper, F. Joel W-M. Leong, 2003 The rapid acceptance of immunohistochemistry as an important and even indispensable adjunct to morphological examination and diagnosis requires the modern anatomical pathology laboratory to be conversant with and proficient in immunostaining procedures as well as methods of tissue processing and antigen retrieval and the underlying characteristics of the increasing number of antibodies and antisera available This fully revised expanded and updated edition provides a comprehensive list of antisera and monoclonal antibodies that have useful diagnostic applications in tissue sections and cell preparations Various clones which are commercially available to detect the same antigen are listed and the sensitivities and specificities of the antibodies are discussed Importantly the authors all pathologists with a wealth of

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Manual of Molecular and Clinical Laboratory Immunology

John L. Schmitz, Barbara Detrick, Maurice R. G. O'Gorman, 2024-11-15 THE authoritative guide for clinical laboratory immunology For nearly 50 years the Manual of Molecular and Clinical Laboratory Immunology has been the premier resource for laboratories students and professionals involved in the clinical and technical details of diagnostic immunology testing The 9th Edition continues its tradition of providing comprehensive clinical and technical information on the latest technologies used in medical and diagnostic immunology Led by a world renowned group of authors and editors this new edition reflects substantial changes aimed at improving and updating the Manual s utility while reflecting the significant transformations that have occurred since the last edition including the revolution of gene editing and the widespread adoption of molecularly engineered cellular therapies Topical highlights include Laboratory Management three new chapters cover essential aspects of quality assurance quality improvement and quality management aligning with the increasingly stringent and demanding regulatory environment Inborn Errors of Immunity the primary immunodeficiency section has been completely updated to align with the latest International Union of Immunological Societies classifications of inborn errors of immunity Functional Cellular Assays expanded content includes detailed discussions on various functional assays critical for modern immunologic testing Autoimmune Diseases expanded chapters on systemic and organ specific autoimmune disorders including new chapters on Sj gren s syndrome and deficiency of ADA2 as well as significant updates on organ specific autoimmune diseases Transplantation Immunology updated chapters detail the assessment of immune reconstitution and ABO testing reflecting latest practices The 9th Edition of the Manual of Molecular and Clinical Laboratory Immunology serves as an invaluable resource for laboratory directors clinicians laboratory managers technologists and students It provides critical insights into the selection application and interpretation of immunologic tests offering practical guidance on troubleshooting clinical application and an understanding of test limitations This comprehensive and up to date manual remains an essential tool for anyone involved in the diagnosis evaluation and management of immune mediated and immune system related disorders

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