

MICROBIOLOGY

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 80S
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

HELMINTHES

Trichina
Taenia
Tricostema
Nematodes

BACTERIA

Gram Positive Genera	Gram Negative Genera
Bacillus	Escherichia
Clostridia	Salmonella
Listeria	Klebsiella
	Proteus
	Salmonella
	Shigella
	Enterobacter
	Pseudomonas
	Campylobacter
	Serratia
	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

A Gutmann



Clinical Pathology Microbiology Study Guide:

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 **BOR Study Guide** Patricia A. Tanabe,E. Blair Holladay,2009 **The Ultimate Study Guide for the Registry Examination in Radiography** Patrick Leonardi,2005 **Medical Lab Tech Exam Cheat Sheets: High-Yield Summaries & Mnemonics** Birhanu Aberha Berele,2025-10-29 Your complete medical laboratory exam prep book filled with high yield summaries mnemonics quick reference sheets and medical lab science essentials Ideal for MLT CLT MLS students and professionals preparing for ASCP AMT or board exams Study smart score high and advance your lab career **Elsevier's Medical Laboratory Science Examination Review** Linda Graeter,Elizabeth Hertenstein,Charity Accurso,Gideon Labiner,2014-08-28 Elsevier s Medical Laboratory Science Examination Review is a brand new resource that offers all the review practice and support you need to prepare for the either the MLS or MLT certification examination Each chapter in the book offers a thorough review on one of the core areas of Medical Laboratory Science as outlined by the ASCP Board of Certification Practice questions are also featured at the end of each chapter and explanations and rationales for each correct answer appear at the end of the text Plus an eight page full color insert displays photomicrographs of hematological and microbiological specimens exactly as they appear under the microscope and on the MLS and MLT certification exams A mock certifications exam is included in the print book as well as online at the companion Evolve website which also houses additional practice questions totaling 1 000 questions in all Inclusion of both MLS and MLT level content and questions enables the book to be used for both certification exams Print mock exam at the end of the book contains 100 certification examination preparation questions Content reviews in outline form enables each topic to be easily reviewed but covered in an appropriate depth Online mock exams on the companion Evolve website include all the practice

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Clinical Pathology Board Review E-Book Suzanne Arinsburg,Jeffrey Jhang,2024-11-12 Covering all of the major subject areas of this complex field Clinical Pathology Board Review 2nd Edition is the ultimate guide for those preparing to take certification recertification and specialty board exams This essential study guide has been revised from cover to cover making it an excellent review tool for exam prep as well as a handy update for practicing pathologists who want to stay current with the latest advancements in the field Covers 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 Contains multiple choice questions including hundreds of new questions offered in a format that mimics that of the actual test along with brief explanations of why answers are correct or incorrect Includes questions that integrate various areas of clinical pathology as well as questions that bridge concepts in clinical pathology with those in anatomic pathology Shares the knowledge and expertise of new section editors and authors who bring fresh perspectives and features an all new organization and greatly revised content throughout Addresses key topics such as toxicology and therapeutic drug monitoring endocrine pathology and cancer biomarkers Helps you 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 Provides online access to all of the questions in the print book along with additional interactive questions

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Medical Examination Review Book ,1960 Journal of the American Public Health Association ,1926

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