

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 minute organisms.

Why Study Microbiology?

No living creature can separate itself from interaction 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, requested that all 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, 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 trash outside hospitals, proposed that infections were due to "miasmas" 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 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.

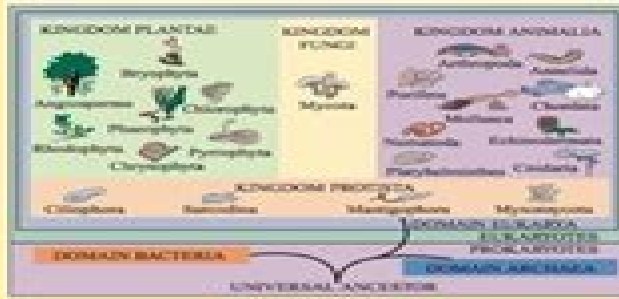
1985 Kary Mullis invents PCR, polymerase chain reaction, a technique to amplify any DNA sequence.

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

Types of Infective Agents

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

Organismal Evolution



How Prokaryotes and Eukaryotes Differ

PROKARYOTES

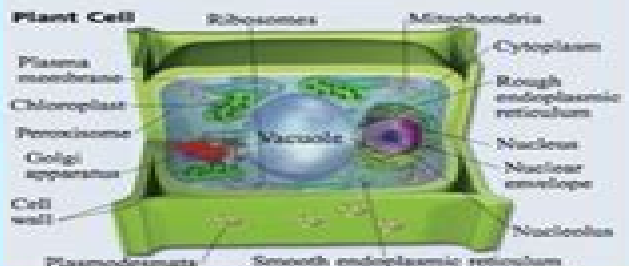
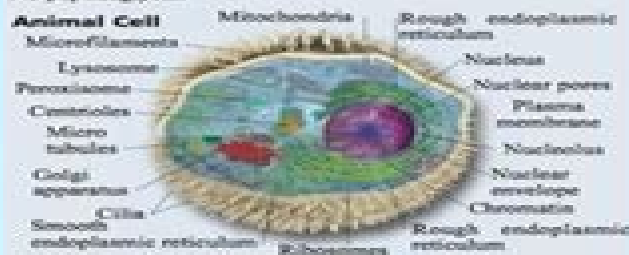
No nucleus
Simple membrane
One chromosome
Bacteria / Mycoplasma / Algae
Small diameter / 1-5um
No organelles
Ribosomes are 70S
Simple flagella
Conjugation, transduction, transformation peptidoglycan in cell wall

Prokaryotic Cell



EUKARYOTES

True nucleus
Complex, invaginated membrane
Multiple chromosomes
Algae / Fungi / Protozoa
Large diameter / 10-100um
Organelles
Ribosomes are 70S and 80S
8 x 2 microtubular flagella conjugation
No peptidoglycan



The Cell Theory

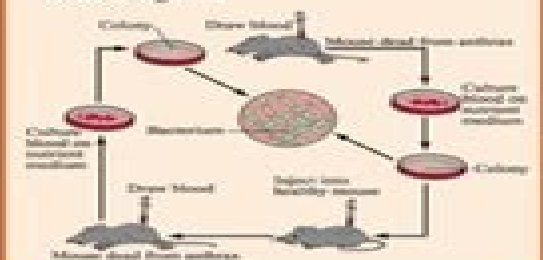
The cell theory, first put forth in the 1800's, has three main premises and states:

- 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

Cryptosporidium
Giardia
Toxoplasma
Cryptosporidium
Balantidium

HELMINTHES

Trichina
Taenia
Tricostema
Nematodes

BACTERIA

Gram Positive Genera

Bacillus
Clostridia
Listeria

Gram Negative Genera

Escherichia
Salmonella
Shigella
Yersinia
Campylobacter
Vibrio
Bacteroides
Brucella

GRAM NEGATIVE VS GRAM POSITIVE

Food Borne Bacterial Symptoms:

Gram Positive (Usually Produce Toxins)

Headache, dizziness, uncoordinated movements, numbness and excessive incoherent

Gram Negative (Usually Result in Infection)

Abdominal cramps, malaise, tenesmus, diarrhea, hematochezia stool, vomiting and nausea

Medical Microbiology Study Guide

**Joseph Domachowske, Manika
Suryadevara**



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are included **Review of Medical Microbiology and Immunology, Seventeenth Edition** Warren E. Levinson, Peter Chin-Hong, Elizabeth A. Joyce, Jesse Nussbaum, Brian Schwartz, 2022-04-05 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 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 as well as a new chapter on COVID 19 Outstanding Tools for USMLE Studying Facilitates any study objective or learning style Essential for USMLE review and medical microbiology coursework 654 USMLE style practice questions test your knowledge Complete USMLE style practice exam Pearls cover the basic science necessary for passing the USMLE 50 clinical cases illustrate the importance of basic science information in clinical diagnosis Concise summaries of medically important organisms Color images depict clinically important findings such as infectious disease lesions Color micrographs of stained microorganisms Chapter ending self assessment questions and answers New chapter on COVID 19 with images **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 **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 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 cases Content valuable to any study objective or learning style 654 USMLE style practice questions test your knowledge and understanding 50 clinical cases illustrate the importance of basic science in clinical diagnosis A complete USMLE style practice exam consisting of 80 questions Pearls for the USMLE impart important basic science information Concise summaries of medically important microorganisms Self assessment questions with answers appear at the end of almost every chapter Color images depict clinically important findings Gram stains of bacteria electron micrographs of viruses and microscopic images depict fungi protozoa and worms NINE NEW CHAPTERS on infectious diseases from an organ system perspective *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 interviews and career MCQs with answers keys Basic mycology quiz has 39 multiple choice questions Classification of medically important bacteria quiz has 14 multiple choice questions Classification of viruses quiz has 35 multiple choice questions Clinical virology quiz has 82 multiple choice questions Drugs and vaccines quiz has 20 multiple choice questions Genetics of bacterial cells quiz has 16 multiple choice questions Genetics of viruses quiz has 34 multiple choice questions Growth of bacterial cells quiz has 9 multiple choice questions Host defenses and laboratory diagnosis quiz has 14 multiple choice questions Normal flora and major pathogens quiz has 139 multiple choice questions Parasites quiz has 31 multiple choice questions Pathogenesis quiz has 65 multiple choice questions Sterilization and disinfectants quiz has 16 multiple choice questions Structure of bacterial cells quiz has 22 multiple choice questions Structure of viruses quiz has 31 multiple choice questions Vaccines antimicrobial and drugs mechanism quiz has 33 multiple choice questions Microbiologist jobs interview questions and answers MCQs on actinomycetes antiviral drugs antiviral medications arbovirus bacterial diseases transmitted by food insects and animals bacterial genetics bacterial growth cycle bacterial structure bacteriological methods basic bacteriology basic virology blood tissue protozoa cestodes chemical agents chlamydiae clinical bacteriology clinical

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