

# 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 on 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 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 trash outside hospitals, proposed that infections were due to "substances" 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.

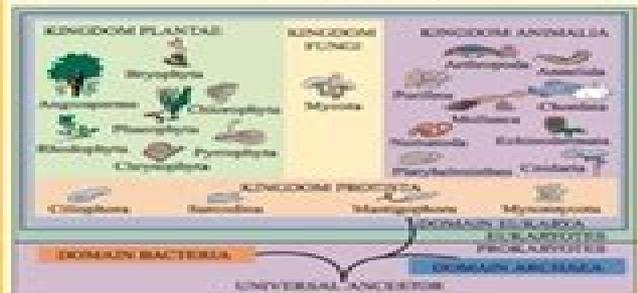
**1960** Francois Jacob and Jacques Monod discovered and elucidated control of enzyme synthesis. They are credited with the Lac Operon model of genetic control of enzyme synthesis.

**1980** Michael Bishop and Harold Varmus discover 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."

## Organismal Evolution

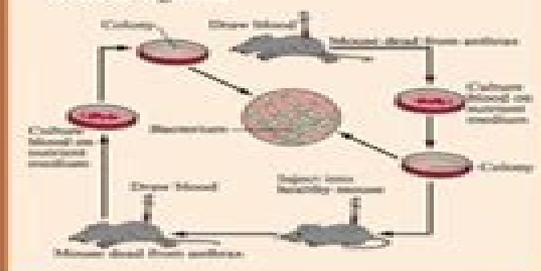


## The Cell Theory

The cell theory, first put forth in the 1800's, has three main premises and states:  
 A. All living things are made up of one or more cells.  
 B. The cell is the basic unit of life.  
 C. 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:  
 1. Identical microbe must be present in all individuals with the same disease.  
 2. Microbe must be cultured outside the body.  
 3. Microbe must induce disease when given to same species.  
 4. Identical microbe must be isolated from newly diseased organisms.



## How Prokaryotes and Eukaryotes Differ

**PROKARYOTES**  
 No nucleus  
 Simple membrane  
 One chromosome  
 Bacteria/Algreenn algal  
 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  
 Algal/fungi/protozoa  
 Large diameter / 10-100um  
 Organelles  
 Ribosomes are 70S and 80S  
 8 or 2 microtubular flagella conjugation  
 No peptidoglycan



## Food Borne Pathogens

- |   |  |
|---|--|
| <b>VIROSES</b><br>Norwalk<br>Polio<br>Coxsackie<br>Ebola virus<br>Hepatitis A | <b>PROTOZOA</b><br>Giardiasis<br>Cryptosporidium<br>Salmonellosis  |
| <b>FUNGI</b><br>Aspergillus   | <b>HELMINTHES</b><br>Trichina<br>Taenia<br>Tricostodes<br>Nematodes  |
| <b>GRAM POSITIVE GENERA</b><br>Bacillus<br>Clostridia<br>Listeria             | <b>GRAM NEGATIVE GENERA</b><br>E. coli<br>Salmonella<br>Shigella<br>Escherichia<br>Pseudomonas<br>Campylobacter<br>Yersinia<br>Bacteroides<br>Brucella |

**GRAM NEGATIVE VS GRAM POSITIVE Food Borne Bacterial Symptoms:**  
**Gram Positive (Usually Produce Toxins)**  
 Headache, dizziness, uncoordinated movements, numbness and exercise intolerance  
**Gram Negative (Usually Result in Infection)**  
 Abdominal cramps, malaise, tenesmus, diarrhea, hemorrhagic stool, vomiting and nausea

## Types of Infective Agents

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

# Medical Microbiology Study Guide

**Betty A. Forbes, Daniel F. Sahm, Alice  
S. Weissfeld**

## Medical Microbiology Study Guide:

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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

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*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

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*Case based Medical Microbiology* Tanmay Mehta, 2024-02-13 Case Based Medical Microbiology authored by Dr Tanmay Mehta is an innovative and comprehensive resource meticulously designed to demystify the intricate realm of medical microbiology The book employs a unique pedagogical approach that enhances understanding and facilitates the recall of complex concepts Each chapter commences with a carefully crafted case study providing pertinent clues emphasized in bold that guide the reader towards the diagnosis This is succeeded by a section detailing the most probable diagnosis derived from the case study The subsequent section elucidates the causative agents enumerated in the order of their frequency A distinctive feature of this book is the representation of the pathogenesis of each disease in the form of a flowchart rendering the process logical and memorable The book further explores the clinical manifestations of each disease outlining all common presentations This is followed by a comprehensive list of investigations that are typically conducted in the given clinical scenario The treatment segment is categorized into three sub sections supportive empirical and specific thereby providing a holistic approach to disease management Preventive strategies are also discussed typically bifurcated into general measures and immunoprophylaxis which includes vaccines and or immunoglobulins Case Based Medical Microbiology is an invaluable asset for those seeking to comprehend medical microbiology through a case based format Its simplistic logical and comprehensive approach renders it an indispensable tool for both learning and teaching

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