

# 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.

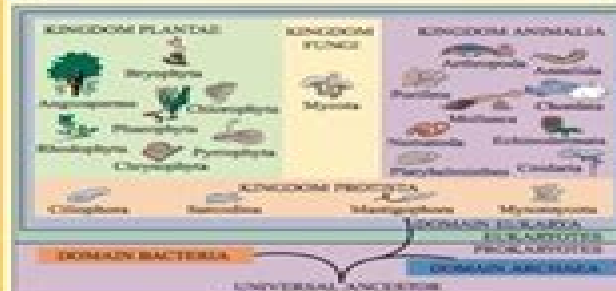
**1985** Kary Mullis invents PCR, polymerase chain reaction, a technique to amplify any DNA sequence.

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

## Types of Infective Agents

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

## Organismal Evolution



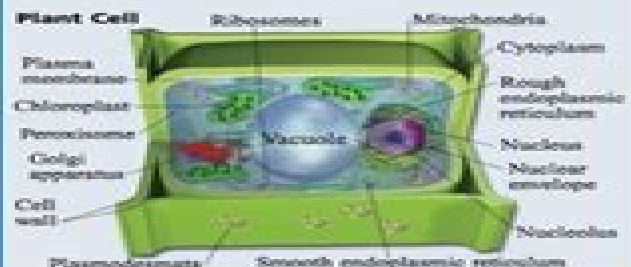
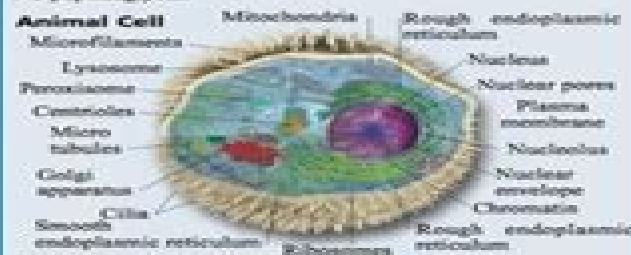
## How Prokaryotes and Eukaryotes Differ

### PROKARYOTES

No nucleus  
Simple membrane  
One chromosome  
Bacteria / Monoclonal 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 70S and 80S  
8 x 2 microtubular flagella conjugation  
No peptidoglycan



## The Cell Theory

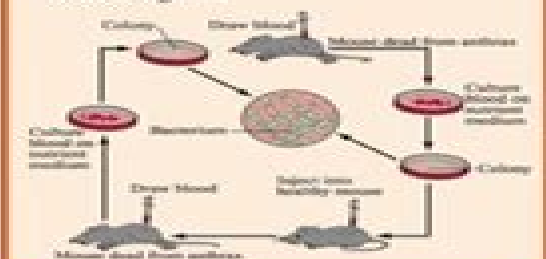
The cell theory, first put forth in the 1800's, has three main premises and states:

- 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

### VIROSES

Norwalk  
Polio  
Coxsackie  
Ebola virus  
Hepatitis A

### FUNGI

Aspergillus

### PROTOZOA

Giardia  
Toxoplasma  
Cryptosporidium  
Balantidium

### HELMINTHES

Trichina  
Taenia  
Tricostema  
Nematodes

### BACTERIA

#### Gram Positive Genera

Bacillus  
Clostridia  
Listeria

#### Gram Negative Genera

Erwinia  
Salmonella  
Shigella  
Escherichia  
Pseudomonas  
Campylobacter  
Yersinia  
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, hemorrhagic stool, vomiting and nausea

# Medical Microbiology Study Guide

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



## **Medical Microbiology Study Guide:**

## **Medical Microbiology Study Guide** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Medical Microbiology Study Guide**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Medical Microbiology Study Guide**

1. Understanding the eBook Medical Microbiology Study Guide
  - The Rise of Digital Reading Medical Microbiology Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Medical Microbiology Study Guide
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Medical Microbiology Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Medical Microbiology Study Guide
  - Personalized Recommendations
  - Medical Microbiology Study Guide User Reviews and Ratings
  - Medical Microbiology Study Guide and Bestseller Lists

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  - Medical Microbiology Study Guide Enhanced eBook Features
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  - Highlighting and Note-Taking Medical Microbiology Study Guide
  - Interactive Elements Medical Microbiology Study Guide
8. Staying Engaged with Medical Microbiology Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Medical Microbiology Study Guide
9. Balancing eBooks and Physical Books Medical Microbiology Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Medical Microbiology Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Medical Microbiology Study Guide
  - Setting Reading Goals Medical Microbiology Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Medical Microbiology Study Guide
  - Fact-Checking eBook Content of Medical Microbiology Study Guide
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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