

# Chapter 1: The Microbial World and You

## Microbiology Overview

- **Definition:** Study of microorganisms
- **Microorganisms:** Small living organisms not visible to the naked eye
  - Include bacteria, fungi, protozoa, algae, and multicellular parasites
  - Also nonliving infectious agents like viruses and prions

## Classification and Naming

- How microorganisms cause disease
- Differences between viruses, bacteria, protozoans, fungi, and parasites
- Examples of each type

## Origin and Evolution

- Mitochondria and chloroplasts origin
- Evolution of organisms from cells over 3 billion years ago
- Classification into three domains: Bacteria, Archaea, and Eukarya

## Microbes in Life on Earth

- **Essential functions**
  - Photosynthesis: Algae and some bacteria capture energy from sunlight and convert it to food, forming the basis of the food chain.
  - Decomposers: Many microbes break down dead and decaying matter and recycle nutrients that can be used by other organisms.
  - Nitrogen Fixation: Some bacteria can take nitrogen from air and incorporate it into soil

## Important and Beneficial Biological Functions of Microbes

- **Digestion:** Animals have microorganisms in their digestive tract, that are essential for digestion and vitamin synthesis.
  - Cellulose digestion by ruminants (cows, rabbits, etc.)
  - Vitamin K and B synthesis in humans.
- **Medicine:** Many antibiotics and other drugs are naturally synthesized by microbes.

# Microbial World And You Study Guide

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