

## CHAPTER 1: INTRO TO MICROBIOLOGY

## Overview of Microorganisms

- Importance
  - Most populous & diverse group of organisms
  - Found everywhere on the planet
  - Role in recycling of essential elements
  - Source of nutrients & some carry out photosynthesis
  - Benefit society
    - Food production
    - Beverages
    - Antibiotics
    - Vitamins
  - Some are disease-causing in people, plants, or animals
- Characteristics
  - Generally < 1mm & too small to be seen with the naked eye
  - Simple in construction
    - Lack differentiated tissues
    - Unicellular (typically)
- Divisions
  - Cellular
    - Fungi
      - Yeast: unicellular
      - Molds & mushrooms: multicellular
    - Protoists
      - Algae: photosynthetic
      - Protozoa: may be motile, hunters & grazers
      - Slime molds: 2 life cycle stages
      - Water molds: devastating disease in plants
    - Bacteria
      - Don't reproduce sexually
      - Referred to as "strains" = descendants of a single, pure microbial culture
    - Archaea
      - Don't reproduce sexually
      - Referred to as "strains" = descendants of a single, pure microbial culture
  - Acellular = at some point, they are not the form of a cell & cannot replicate
    - Viruses
      - Smallest microbes
      - Require a host
      - Cause range of diseases, cancers
    - Viroids
      - Infectious agents composed of RNA
    - Satellite
      - Nucleic acid enclosed by protein shell
      - Coinfects host with a virus to complete life cycle
    - Prions
      - Infectious proteins
- Types of microbial cells
  - Prokaryotic cells
    - Lack true membrane-bound nucleus
  - Eukaryotic cells
    - Membrane-enclosed nucleus
    - Complexity

# Microbiology Exam 1 Study Guide

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Ann Weaver**



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