

## Microbiology Unit 4 Study Guide

### 21.1 Characteristics and Distribution: Bacteria

1. Bacteria are unicellular organisms that lack a nucleus and other membrane-enclosed organelles.
  - 1. Bacteria are classified by shape and arrangement.
2. Cell structure and organization
  - 1. In prokaryotes there are no membrane-enclosed organelles.
3. Reproduction independent of the parent.
  - 1. Binary fission, where one cell divides into two.
4. Metabolism - can be autotrophic or heterotrophic.
  - 1. Autotrophic - organisms that can synthesize their own food.
5. Chemical composition - cell wall is a defining feature of all bacteria.
  - 1. Peptidoglycan.
6. Survival - can survive in a dormant state.
7. Reproduction is rapid by the binary fission process.
8. Extremophiles - live in extreme environments.
9. Living with bacteria - can be pathogenic or symbiotic.
10. Biotechnology - use of bacteria in various applications.
11. Antibiotic resistance - a major public health concern.
12. Environmental impact - bacteria play a role in the carbon cycle.
13. Medical importance
  - 1. Pathogens - bacteria that cause disease.
  - 2. Antibiotics - drugs that kill or inhibit the growth of bacteria.
  - 3. Vaccines - preparations that stimulate the immune system.
  - 4. Probiotics - live microorganisms that are beneficial to health.
  - 5. Antibiotic resistance - the ability of bacteria to resist the effects of antibiotics.
  - 6. Antibiotic resistance - a major public health concern.
14. Research and discovery
  - 1. Genetics - the study of heredity and the variation of inherited characteristics.
  - 2. Protein structure - the three-dimensional shape of a protein.
  - 3. Enzyme function - the study of the catalytic activity of enzymes.
  - 4. Cell signaling - the study of how cells communicate with each other.
  - 5. Antibiotic resistance - the ability of bacteria to resist the effects of antibiotics.
  - 6. Antibiotic resistance - a major public health concern.
15. The future of microbiology
  - 1. Antibiotics - the study of the use of drugs to kill or inhibit the growth of bacteria.
  - 2. Antibiotic resistance - the ability of bacteria to resist the effects of antibiotics.
  - 3. Antibiotic resistance - a major public health concern.

# Microbiology Unit Study Guide

**Clemens Wendtner**



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