

# Chapter 1 - Microbiology

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11:35 AM

**Microbiology** = the study of micro-organisms (microbes)

- **Microbes** = organisms that cannot be readily seen without a microscope
- **Medical microbiology** = the medical implications of microbes (how they cause diseases)
- Viral pathogens -> not a microbe because it is not actually a living thing

Micrometer, micron,  $\mu\text{m}$

- 0.000001 meter = 1 micrometer

How many human cells are in the body

- More than 30 trillion
- Emphasis on *human* cells because that excludes the other microbes and microorganisms

Organizing microbes

- Classification
  - **Carl Linnaeus** is founder of modern taxonomy
    - *Systema Naturae*
      - 1) Animals
      - 2) Plants
      - 3) Minerals
    - **Taxonomy** = the classification, description, identification, and naming of living organisms
- Defining properties
  - **Ernst Haeckel** made the first phylogeny (tree) to include a kingdom for protista and bacteria
    - **Protista** = single cell organisms
    - **Monera** = bacteria
  - Before this, we didn't have a way of classifying things to this level (so tiny)
    - Greatest success was that it showed the relatedness of organisms
  - **Phylogeny** = depiction of the evolutionary history of a group of organisms
- A **taxon** is based on increasing specificity of the characteristics of a group of organisms



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## **Table of Contents Microbiology Study Guide And Practice Exams**

1. Understanding the eBook Microbiology Study Guide And Practice Exams
  - The Rise of Digital Reading Microbiology Study Guide And Practice Exams
  - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Study Guide And Practice Exams
  - 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 Microbiology Study Guide And Practice Exams
  - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Study Guide And Practice Exams
  - Personalized Recommendations
  - Microbiology Study Guide And Practice Exams User Reviews and Ratings
  - Microbiology Study Guide And Practice Exams and Bestseller Lists
5. Accessing Microbiology Study Guide And Practice Exams Free and Paid eBooks
  - Microbiology Study Guide And Practice Exams Public Domain eBooks
  - Microbiology Study Guide And Practice Exams eBook Subscription Services
  - Microbiology Study Guide And Practice Exams Budget-Friendly Options
6. Navigating Microbiology Study Guide And Practice Exams eBook Formats
  - ePUB, PDF, MOBI, and More
  - Microbiology Study Guide And Practice Exams Compatibility with Devices
  - Microbiology Study Guide And Practice Exams Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Microbiology Study Guide And Practice Exams
  - Highlighting and Note-Taking Microbiology Study Guide And Practice Exams
  - Interactive Elements Microbiology Study Guide And Practice Exams

8. Staying Engaged with Microbiology Study Guide And Practice Exams
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Microbiology Study Guide And Practice Exams
9. Balancing eBooks and Physical Books Microbiology Study Guide And Practice Exams
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Microbiology Study Guide And Practice Exams
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Study Guide And Practice Exams
  - Setting Reading Goals Microbiology Study Guide And Practice Exams
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Study Guide And Practice Exams
  - Fact-Checking eBook Content of Microbiology Study Guide And Practice Exams
  - 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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