

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, μm

- 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



Microbiology Laboratory Study Guide

JR Anderson

Microbiology Laboratory Study Guide:

Laboratory Manual and Study Guide for Integrated Science for Health Students T. Randall Lankford, 1976

Diagnostic Bacteriology Margaret A. Bartelt, 1999-01-01 Organized in a concise simplified manner using an outline format to organize the material this text emphasizes the role of the clinical microbiology laboratory in diagnosing and treating diseases Bacteria e.g. gram positive anaerobic etc and laboratory procedures e.g. antimicrobial agents and susceptibility tests are clustered in seven unique sections Chapter study questions and a 100 question comprehensive exam are included

Current Catalog National Library of Medicine (U.S.), 1979 First multi year cumulation covers six years 1965-70

Study Guide to Accompany the Microbial Perspective Frank Whitehouse, 1982 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1978

Instructor's Manual and Study Guide Answers for the Human Body in Health and Disease Barbara Janson Cohen, Memmler, 1996

Laboratory Fundamentals of Microbiology I. Edward Alcamo, 2000-08 Laboratory Applications in Microbiology: A Case Study Approach Barry Chess, 2008-09-17 Laboratory Applications in Microbiology A Case Study Approach uses real life case studies as the basis for exercises in the laboratory This is the only microbiology lab manual focusing on this means of instruction an approach particularly applicable to the microbiology laboratory The author has carefully organized the exercises so that students develop a solid intellectual base beginning with a particular technique moving through the case study and finally applying new knowledge to unique situations beyond the case study

Subject Guide to Books in Print, 1996 **Peterson's Annual Guides to Graduate Study**, 1983 *National Library of Medicine Catalog: Subjects* National Library of Medicine (U.S.), 1966 Medical and Health Care Books and Serials in Print, 1997 **The United States Catalog**, 1965

Nursing Studies Index: 1930-1949 Yale University. School of Nursing, 1970 International national regional and local nursing journals searched as well as selected journals in related fields such as public health Unpublished masters theses not covered Alphabetical subject arrangement of entries Many cross references Author index **Biology**, 1999 *The Cumulative Book Index*, 1977 A world list of books in the English language *National Union Catalog*, 1973 Includes entries for maps and atlases **Paperbound Books in Print**, 1983 **Microbiology** Jacquelyn G. Black, 1996 This text follows a body systems approach to microbiology paying attention to real life connections and covering such topics as the characteristics of microbial metabolism growth and genetics **Microbial Musings** Debra Jan Bibel, 2001

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