

Chapter 1 - Microbiology

Wednesday, January 12, 2022

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



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Microbiologist National Learning Corporation, 2014. The **Microbiologist** Passbook® prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam. **Research & Creative Activity**, 2003. **Fundamentals of Microbiology** I. Edward Alcamo, 1997. *Lange Q&A USMLE Step 1, Sixth Edition* Michael W. King, 2008-04-06. The trusted favorite for USMLE Step 1 review. **LANGE Q&A USMLE Step 1** is a comprehensive Q&A review of all the topics medical students can expect on the USMLE Step 1. Chapters contain specific topics so you can reinforce one topic at a time and concentrate on your weak areas. The final seven chapters consist of practice tests in blocks of 50 questions each in the same format you will see on exam day. FEATURES: Co-authored by residents who recently passed Step 1. Board format practice exams enhance test preparation. Most frequently tested subjects are emphasized. Organized by subject to help you focus on problem areas. Fully comprehensive and up to date. The most popular review guide for USMLE Step 1. More than 1,100 Q&As plus detailed explanations for each. One complete 350 question practice test for self-evaluation. Special focuses on physiology, pathology, and pharmacology. The latest info on microbiology and behavioral science.

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