

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



Microbiology Study Guide Chapter 8

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Study Guide to Accompany Microbiology,

Fourth Edition George A. Wistreich,1984 Study Guide to Accompany Microbiology Raúl J. Cano,Jaime S.

Colomé,1985-02 Study Guide to Accompany Ronald M. Atlas' Microbiology Harry E. Peery,1984 Visualizing Microbiology Rodney P. Anderson,Linda Young,Kim R. Finer,2020-12-10 The second edition of Visualizing Microbiology contains a completely redesigned TOC and the most current coverage of the COVID 19 pandemic This text is ideal for introductory microbiology courses for non majors and pre allied health students Visualizing Microbiology brings the narrative to life with an applied clinical focus helping students see and understand the unseen in the world of microbiology The unique visual pedagogy of the text provides a powerful combination of content and visuals ideal for microbiology

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