

Lecture 1. History and Scope of Microbiology

What is Microbiology?

- Study of organisms and agents too small to be seen by the naked eye (<1mm)
- Study of organisms that can exist as single cells, contain a nucleic acid genome for at least some part of their life cycle, and are capable of replicating that genome
 - Includes recently discovered microorganisms such as *Epulopiscium* and *Thiomargarita*
 - Also include viruses, which microbiology texts traditionally discuss along with living organisms

Importance of microorganisms:

- ✓ First living organisms on planet
- ✓ Live everywhere life is possible
- ✓ More numerous than any other kind of organisms
- ✓ Global ecosystem depends on their activities
- ✓ Influence human society in many ways

Basic Microbiology

- Interest on the microorganisms and their biology
 - Fields:
 - Virology – viruses
 - Bacteriology – bacteria
 - Phycology – algae
 - Mycology – fungi
 - Protozoology – protozoa
- Morphology/particular functional process
 - Microbial physiology/biochemistry
 - Microbial genetics/molecular biology

Applied Microbiology

- Medical microbiology
- Immunology
- Public health microbiology
- Food and dairy microbiology
- Industrial microbiology
- Agricultural microbiology
- Microbial ecology

The Future of Microbiology

- Infectious diseases
- New and improved industrial processes
- Microbial diversity and microbial ecology

More challenges and opportunities

- Biofilms

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