

Scope of microbiology

Microbiology is the study of microorganisms that are invisible to the naked eye,

Introduction to Microbiology, History & scope

• Microbiology:

- In the broadest sense, **microbiology** is the study of all organisms that are the naked eye-that is the study of **microorganisms**.
- Its subjects are viruses, bacteria, many algae and fungi, and protozoa.
- The importance of microbiology and microorganisms can not be overemphasized
- Microorganisms are necessary for the production of bread, cheese, beer, ; vaccines, vitamins, enzymes, etc.
- Modern **biotechnology** rests upon a microbiological foundation.

• Microorganisms:

- Microorganisms are everywhere; almost every natural surface is colonized by microbes, from body to ocean. Some microorganisms can live hot springs, and others in frozen sea ice.
- Most microorganisms are harmless to humans; You swallow millions of microbes every day with no ill effects. In fact, we are dependent on microbes to help us digest our food.
- Microbes also keep the biosphere running by carrying out essential functions such as decomposition of dead animals and plants. They make possible the cycles of carbon, oxygen, nitrogen and sulfur that take place in terrestrial and aquatic systems.
- Microorganisms have also harmed humans and disrupted society over the millennia.