

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

Grade 1history Scope For 2014

Peipei Pang



Grade 1history Scope For 2014:

Unveiling the Magic of Words: A Overview of "**Grade 1history Scope For 2014**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Grade 1history Scope For 2014**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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