

# Introduction to Microbiology –Ch. 1

This is a short outline of the main points covered in lecture. It is meant as a framework to help you in your study, however, it is not a comprehensive list of everything you need to know. Anything covered in lecture and your textbook is potential material for exams.

## Study Questions

- Define the term **microbiology**.
- Name the **3 Domains of life**. How are the domains different from each other?
- Name a few differences between **prokaryotic** and **eukaryotic** organisms.
- What are the **7 categories of microbes** (according to modern classification)? Describe their characteristics (e.g. how are they differentiated from each other, prokaryotic/eukaryotic/acellular, cellular structures)
- What were the 2 major beliefs prior to the Golden Age of Microbiology that were dispelled?
- Who invented the microscope? Who is considered the Father of Microbiology?
- Name 3 people instrumental to developing modern medical hygienic standards.

## Brief outline of topics covered in lecture:

- Taxonomic classification system
  - Who invented it?
  - How do you properly write out the binomial of an organism?
  - Domains of life → new classification level
- Invention of the Microscope
  - Antoni van Leeuwenhoek
    - Discovered microorganisms
  - Microbe vs. microorganism
- Microbes studied in microbiology
  - Fungi
  - Protozoa
  - Bacteria
  - Archaea
  - Algae
  - Parasitic worms
  - Viruses
- Early misconceptions about biology
  - Spontaneous generation
    - Redi helped produce doubt
  - Miasmas/sprits as the causation of disease
- Golden Age of Microbiology
  - Louis Pasteur = “father of microbiology” What were his major contributions?

# Microbiology Study Guide Chapter 8

**Lingjun Ying**



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