

## BIOS 350 Unit 1 Exam Study Guide

### **Chapter 1**

Microorganisms or microbes are very small organisms; many types of microbes are too small to see without a microscope. Although some parasites and fungi are visible to the naked eye.

#### Hippocrates

- "Father of Western Medicine"
- the thought that diseases had natural causes from within patients or their environments
- Author of the Hippocratic Oath, taken by new physicians to pledge their dedication to diagnosing and treating patients without causing harm

#### Thucydides

- "Father of Scientific History"
- advocated for evidence based analysis of cause and effect reasoning

#### Varro

- one of the first people to propose the concept that things we cannot see can cause disease

#### The Birth of Microbiology

- Leeuwenhoek was the first to develop a lens powerful enough to view microbes
  - he was able to observe single-celled organisms
- Pasteur
  - showed that individual microbial strains has unique properties and demonstrated that fermentation is caused by microorganisms
- Koch
  - was the first to demonstrate the connection between a single isolated microbe and a known human disease

#### Tools in Microbio Lab

- **stains and dyes**: add color to the microbes so they can be observed
- **growth media**: provides nutrients to microbes, larger observation
- **inoculation loop**: used to streak microorganisms, for transfer

#### A systematic Approach

- science of taxonomy
  - classification, description, identification, and naming of living organisms
- Linnaeus
  - Linnaean taxonomy: a system of categorizing and naming organisms using a standard format so scientist could discuss organisms using consistent terminology
- divided the natural world into 3 Kingdoms: animal, plant, mineral

#### Positive Roles of microbes

- decomposition

# Texas Tech Pols 2302 Study Guide

**Chao Zhang**



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