

Microbiology Final Exam Study Guide

Chapter 1-3 Slides

The Scientific Method

1. Make an observation
2. Formulate a question
3. Develop a hypothesis statement
4. Test the hypothesis statement by performing experiments or further observations and modify the hypothesis in the light of your results
5. Repeat step 4 until there are no discrepancies between hypothesis and experimental results and/or observation

Important Microbiologists

- Robert Hooke (1660s)
 - 1665 Hooke published *Micrographia*
 - Coined the term "cell" for describing biological organisms
- Antony van Leeuwenhoek
 - Prosperous Dutch linen merchant
 - Developed interest in microscopes
 - In 1676 described spherical, rod, & spiral bacteria and protozoa (animalcules); later published by the Royal Society in England
 - Also described red blood cells, sperm cells, and yeast cells he also discovered bacteria.

Fundamental disagreement: where do organisms come from?

Two different ideas emerged:

Biogenesis: life comes from pre-existing life

Spontaneous generation (abiogenesis): life can come from non-living sources

Spontaneous generation sceptics

Redi-Meat does not rot if sealed properly. Living cells can only arise from preexisting living cells.

Louis Pasteur: French chemist

1859 - disproved spontaneous generation by experiments with swan-necked flasks

1864 - invented pasteurization

Hypothesis: Microorganisms live in the air. If sterile nutrient broth is guarded against microbes in the air that may fall out of the air into it, it will remain sterile.

Koch's Postulates: to establish the cause of a specific infectious disease

REQUIREMENTS:

1. Organism is always present in diseased animal
2. Can grow in pure culture
3. Can inoculate healthy animal and observe disease
4. Organism can be re-isolated from diseased animal

Microbiology Study Guide For Final Exam

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