

Microbiology an Introduction



Learning Objectives

At the end of this lecture you should be able to:

1. Summarize the relative burden of human diseases caused by microbes.
2. Explain spontaneous generation and role of Pasteur in disproving it.
3. Name the four main families of biochemicals.

Learning Guide Questions

The answers to these questions are covered both in the lecture material and the text book.

1. Define spontaneous generation.
2. Explain the role of a pathogen in causing an infectious disease.
3. Using the figure below, describe Pasteur's experiments disproving spontaneous generation.
4. Define macromolecules and state what the monomers are the four main biochemical macromolecules of a cell.

According to the hypothesis of spontaneous generation, life can arise spontaneously from nonliving matter, such as dead corpses and soil. Pasteur's experiment, described below, demonstrated that microbes are present in nonliving matter—air, liquids, and solids.

1. Pasteur first poured broth both into a long-necked flask.
2. Next he heated the neck of the flask and tilted it into an S-shape. When he cooled the broth for several minutes.
3. Microorganisms did not appear in the cooled solution, even after long periods.

Microorganisms were present in the broth.

Microorganisms were not present in the broth after heating.

Broth prevented microbes from entering flask.

Microorganisms were not present even after long periods.

Some of these original vessels are still on display at the Pasteur Institute in Paris. They have been sealed but show no sign of contamination more than 100 years later.

NEW CONNECTIONS

- Pasteur demonstrated that microbes are responsible for food spoilage, leading microbially to the connection between microbially and disease.
- His experiments and observations provided the basis of aseptic techniques, which are used to prevent microbial contamination, as shown in the photo on right.

Microbiology 2420 Study Guide

Xiaolong Qi



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