

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 organisms and soil. Pasteur's experiments, described below, demonstrated that microorganisms are present in nonliving matter—air, liquids, and solids.

 Pasteur found yeast
buds in a long-necked flask.



Microorganisms were
present on the yeast.

 Reder heated the neck of the flask
and bent it into 90 degrees when he
boiled the broth for several minutes.



Microorganisms were
not present in the
bent neck after boiling.

 Microorganisms did not appear in the
bent-necked flask, even after long periods.



Boiling prevented
microorganisms from
entering the flask.

Microorganisms were
not present even
after long periods.

KEY CONCEPTS

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



Some of these original vials 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.

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