

GENERAL BIOLOGY 1

Cell: Theory, Structure and Function

What are cells?

- Cells are the basic building blocks of all living things.
- The human body is composed of trillions of cells.
- They provide structure for the body, take in nutrients from food, convert those nutrients into energy, and carry out specialized functions.
- Cells also contain the body's hereditary material and can make copies of themselves.

Cell Theory

Robert Hooke improved the design of the existing compound microscope in 1665.

- His microscope used three lenses and a stage light, which illuminated and enlarged the specimens. These advancements allowed Hooke to see something wondrous when he placed a piece of cork under the microscope. Hooke detailed his observations of this tiny and previously unseen world in his book, Micrographia. To him, the cork looked as if it was made of tiny pores, which he came to call "cells" because they reminded him of the cells in a monastery.

Antonie van Leeuwenhoek a dutch scientist in 1674

- published his observations on tiny living organisms which he named animalcules.
- was the first to observe under his microscope the structure of a red blood cell, different animals as well as a sperm cell.

The leading botanist in his time, Robert Brown in 1831

- was able to compare diverse kinds of plant specimens under the microscope.
- He markedly indicated that there is a common thing about them-they are all composed of cells, and inside the cell is a dark dense spot which he termed as the nucleus.

German botanist Matthias Schleiden (1838)

- concluded that all plant parts are made of cells.

Theodor Schwann (1839).

- botanist and a close friend of Schleiden.
- stated that all animal tissues are composed of cells.
- In 1855, the third tenet of Schwann were replaced by the Rudolph Virchow's powerful dictum, *Omnis cellula e cellula, "All cells only arise from pre-existing cells."*

The discoveries made by Hooke, Leeuwenhoek, Schleiden, Schwann, Virchow, and others led to the formulation of the cell theory. This theory can be summed up into three basic components:

- (1) all living things are composed of one or more cells;
- (2) the cell is the basic unit of life;
- (3) all cells arise from preexisting cells.

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