

# 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 of different animals as well as a sperm cell.

The leading botanists 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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**JE Gale**



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*Biology/science Materials* Carolina Biological Supply Company, 1991      **The London Medical Record**, 1879      **The Journal of Education**, 1933      **Catalogue of Cornell College for ...** Cornell College (Mount Vernon, Iowa), 1890

**Colorado School Journal**, 1895      **The Colorado School Journal** Aaron Gove, Dorus Reuben Hatch, Harry McWhirter Barrett, Nathan B. Coy, Henry Burnside Smith, William Barnard Mooney, 1895      *Science*, 1893 Vols for 1911 13 contain the Proceedings of the Helminthological Society of Washington ISSN 0018 0120 1st 15th meeting      **School Science and Mathematics**, 1921      *The Lancet*, 1939      *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography, 1978      **Forthcoming Books** Rose Arny, 1989-09      **Evolution of Life** Cecie Starr, Ralph Taggart, 1998 This selected paperback binding of the Eighth Edition of Biology The Unity and Diversity of Life gives instructors the option of purchasing a shorter text covering selected excerpted topics Six paperbacks are available Cell Biology and Genetics Evolution of Life Diversity of Life Plant Structure and Function Animal Structure and Function and Ecology and Behavior Evolution of Life covers Unit III Principles of Evolution and contains a customized table of contents and the back matter from Biology The Unity and Diversity of Life The Evolution of Life volume includes a brief history of evolutionary thought microevolutionary thought microevolutionary processes macroevolution the origin and macroevolution of life and a case study of human evolution      **Explorations in Basic Biology** Stanley E. Gunstream, John Stanley Babel, 1978 Designed for use in the laboratory component of introductory general biology courses this lab manual contains 41 exercises that will allow students to work independently from the professor to enhance learning Each exercise in this lab manual States learning objectives Describes necessary background information to prepare students for the activities that will follow Lists the required material for each activity in the exercise Provides a laboratory report for each exercise so students can record observations data and conclusions The six diversity exercises include a minipracticum section on each laboratory report so students are challenged to identify organisms based on the recognition of characteristics Book jacket      *Journal of Developmental Education*, 1993      The Publishers' Trade List Annual, 1978      **Virginia Journal of Science** Ruskin Skidmore Freer, 1995      **The Virginia Journal of Science** Ruskin Skidmore Freer, 1995

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