

ANATOMY OF A CELL

Zooming In

In 1664, English scientist Robert Hooke viewed a thin slice of cork through an early microscope. Cork looked to him as if it were constructed of dozens of tiny rectangular compartments. He called them cells, from the Latin *cella*, meaning small room.

At first, scientists couldn't see much within a cell and thought it was just filled with jelly. They called that jelly protoplasm. But improved microscopes slowly changed that view. We know now that each cell is really a complex part of life.

What's in a Cell?

Each cell is different, but all cells have features similar to this **HUMAN CELL**.

Ingredients of Cells



WATER
Water makes up about 90 percent of a cell's weight. There's water in the other 10 percent.



PROTEINS
About 5 percent are protein molecules, which in turn are made up of chemicals called amino acids.



CARBOHYDRATES
These are sugars, which are formed for quick energy. They make up about 2.5 percent.



NUCLEIC ACIDS
These go by their initials—DNA and RNA—and make up about 1.5 percent of



cells. They control the cells by supplying the codes that decide which chemicals get made and when.



FATS
Fats, oils, and waxes called lipids make up about 1 percent—mostly in the cell's outer membrane.



A Red muscle, like this one, and cells are made of proteins. About half the stuff in your body is made of protein. Every person has

about 500,000 different proteins working at any time. Most serve as switches that turn chemical reactions on and off when needed.

Proteins are made by organelles. Organelles perform other jobs in a cell, such as turning food into energy and moving molecules around.

MITOCHONDRION (mī-tō-kōn-dree-ōn)
Produces energy for cell to use by breaking down substances.

DNA, or deoxyribonucleic acid (see page 107). Its code (DNA) contains closely coded information that passes on every single inherited characteristic.

NUCLEUS
Cells control center, or brain.

VACUOLE
Storage area for fat and other substances.

ENDOPLASMIC RETICULUM (en-dō-plāz-mā-ret-ik-ū-lū-m-e-tō-kyū-lū-m)
Smooth and rough tubes that move and store materials made by the cell.

CELL MEMBRANE
Made up of a double layer of fatty material called lipids. It allows some materials to pass into and out of a cell at thousands of places across its surface. For example, it allows food to pass into the cell and waste to pass out of the cell.

ORGANELLES
Structures from protein-building factories. These proteins perform chemical messages that run a cell.

CHANNELS
Cells and transport many small proteins until they can be released through the cell membrane.

PLANT CELLS differ greatly from animal cells

They use a **cell wall** instead of a fatty one. Most plant cells also contain organelles called chloroplasts. Within each chloroplast, the green pigment (called chlorophyll) uses the sun's light energy to combine carbon dioxide and water to make sugar. This process—called photosynthesis—supplies plants with energy. Plants in turn supply energy for all other forms of life.

CYTOPLASM
Jellylike fluid between cell membrane and nucleus, where most of the cell's organelles, or organelles, are found. Organelles means "little organs."

LYSOSOME
Where digestion of cell contents takes place.



CHLOROPLAST

CELL WALL

Cell Functions Understanding How Cells Work

Elliott Proctor Joslin, C. Ronald Kahn



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Cell Functions Jennifer Viegas,2005 Describes the parts characteristics and functions of various kinds of human cells

Molecular Biology of the Cell Bruce Alberts,2017-08-07 As the amount of information in biology expands dramatically it becomes increasingly important for textbooks to distill the vast amount of scientific knowledge into concise principles and enduring concepts As with previous editions Molecular Biology of the Cell Sixth Edition accomplishes this goal with clear writing and beautiful illustrations The Sixth Edition has been extensively revised and updated with the latest research in the field of cell biology and it provides an exceptional framework for teaching and learning The entire illustration program has been greatly enhanced Protein structures better illustrate structure function relationships icons are simpler and more consistent within and between chapters and micrographs have been refreshed and updated with newer clearer or better images As a new feature each chapter now contains intriguing openended questions highlighting What We Don t Know introducing students to challenging areas of future research Updated end of chapter problems reflect new research discussed in the text and these problems have been expanded to all chapters by adding questions on developmental biology tissues and stem cells pathogens and the immune system

Molecular Cellular Microbiology P. J. Sansonetti,Arturo Zychlinsky,2002

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Proceedings 18 -1906 Michigan Schoolmasters' Club,1907 Plant Cell Biology Brian E. S. Gunning,Martin W. Steer,1996 Tremendous advances have been made in techniques and application of microscopy since the authors original publication of *Plant Cell Biology An Ultrastructural Approach* in 1975 With this revision the authors have added over 200 images exploiting modern techniques such as cryo microscopy immuno gold localisations immunofluorescence and confocal microscopy and in situ hybridisation Additionally there is a concise readable outline of these techniques With these advances in microscopy and parallel advances in molecular biology more and more exciting new information on structure function relationships in plant cells has become available This revision presents new images and provides a modern view of plant cell biology in a completely rewritten text that emphasizes underlying principles It introduces broad concepts and uses carefully selected representative micrographs to illustrate fundamental information on structures and processes Both students and researchers will find this a valuable resource for exploring plant cell and molecular biology

Text-book of physiological chemistry in thirty lectures Emil Abderhalden,1908 Sanitation and Physiology John Woodside Ritchie,1910 *Signal* ,1993 Joslin's Diabetes Mellitus Elliott Proctor Joslin,C. Ronald Kahn,2005 The bible on diabetes mellitus is now in its Fourteenth Edition thoroughly revised and updated by more than 80 noted experts from the Joslin Diabetes Center and other leading institutions worldwide This edition includes a new eleven chapter section on hormone action and the regulation of metabolism The section on definition and pathogenesis now includes chapters on genetics diabetes in Asia and Africa and diabetes in U S minority groups Other new chapters cover retinopathy cardiovascular disease wound healing and treatment of women with diabetes All of the Fourteenth Edition s figures have been completely updated

The Retrospect of Practical Medicine and Surgery ,1872 Journal of the American Institute of Homeopathy ,1925 **The American Monthly Microscopical Journal** ,1892

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