

# 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 what's 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 burned 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 nucleus**, 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 as well, such as turning food into energy and moving molecules around.

**MITOCHONDRIA** (mī-tō-kōn-dree-ōn)  
Produce energy for cell to use by breaking down substances

**RNA**, or deoxyribonucleic acid (the coarser RY), is made of RNA and contains closely coiled information that passes on every single inherited characteristic.

**NUCLEOLUS**  
Cells control center, or brain

**ORGANELLES**  
(ōr-gā-nē-lēz)  
Protein-producing factories. Proteins produce chemical messages that run a cell.

**CHANNEL** (chā-nē-l)  
Stems and transports newly made proteins until they can be released through the cell membrane

**VACUOLE**  
Storage area for fat and other substances

**ENDOPLASMIC RETICULUM** (en-dō-plāz-mā-ret-ik-ū-lū)  
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 certain 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.

**PLANT CELLS**  
differ greatly from animal cells

They use a new outer covering 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 imports, or organelles, are found. Organelles means "little organs."

**LYSOSOMES**  
Where digestion of cell contents takes place



**CHLOROPLAST**

**CELL WALL**

# Human Cell Structure And Function Study Guide

**Chao Zhang**



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