



SCIENCE



LIFE SCIENCE

Classes of Molecules Found in Cells

- **Lipids:** Long chains of carbon and hydrogen that generally don't like water

❗ Oils and fats

- **Proteins:** Made up of *amino acids*, carry out most of the functions of the cell
- **Carbohydrates:** Also known as *sugars*, used for energy and storage, as well as for building structures around cells
- **DNA/Ribonucleic acid:** Double-stranded hereditary molecules of all cells that twist into a *double helix* and is used to directly make RNA molecules in a process called *transcription*
- **RNA (ribonucleic acid):** Molecules are similar to DNA, but are single stranded and make proteins in a process called *translation*

These five substances are used to make up most of what goes into all living organisms.

We eat things such as lipids, proteins, and carbohydrates to use as raw materials to build our cells.

Cells

Cells are the basic unit of life.

Organelles are specialized structures in cells to carry out particular functions.

Prokaryotic Cells

- Lack nuclei and are generally simpler than eukaryotic cells
- **Bacteria** are typical prokaryotic cells.
- Have a single circular DNA molecule
- Have a **cell membrane** made up of two layers of lipids with **hydrophilic** (water loving) heads and **hydrophobic** (water fearing) tails
- Reproduce by **binary** where one cell separates into two cells. They do not need any other organisms to reproduce.
- Do not have any internal membranes to create separate spaces in the cell
- Have a **cell wall** made up of proteins and carbohydrates that protect the cell

Eukaryotic Cells

- Have nuclei and are often larger and more complex than prokaryotic cells
- Usually have multiple chromosomes that are more organized than DNA in prokaryotes
- Have membrane-bound organelles that create specialized environments, increasing efficiency
- Can form multicellular organisms where cells take on specialized functions
- May or may not have cell walls. Animal cells lack cell walls, but plants and yeast cells have them.
- May undergo **sexual reproduction**, which requires two different sexes to produce specialized reproductive cells

Prokaryotic & Eukaryotic Cell Structures

- **Cell walls:** Protective structures surrounding some organisms, made up of carbohydrates and proteins
 - **Cell Mem.** thin projections that help to move a cell or create currents around a cell
 - **Flagellae:** Long, thin projections that spin and are used to move a cell
- **Basal bodies:** Protein structures that serve as a base for cilia and flagella to move
- **Cell membranes:** Lipid bilayers that form a barrier between the inside and outside of a cell
- **Ribosomes (RR):** Made up of proteins and RNA, used to make proteins, not membrane bound

Eukaryotic Cell Structures



- **Nucleolus (NT):** A specialized region of the nucleus used to make ribosomes
- **Nucleolus (NT):** Membrane-bound structures holding the DNA of a cell
- **Vesicles (V):** Membrane-bound organelles that can trap material inside of the membrane and either bring it into the cell (endocytosis) or release it from the cell (exocytosis)
- **Rough endoplasmic reticulum (RR):** Used to synthesize membrane proteins and vacuole proteins
- **Golgi complex (GR):** Membrane-bound organelle used to sort proteins into their correct locations and add complex carbohydrates to cells
- **Cytoskeleton (CT):** Internal protein structure that supports the cell and gives molecules tracks on which they can move within a cell
- **Smooth endoplasmic reticulum (ER) (RR):** Used to synthesize lipids
- **Mitochondria (MT):** Membrane-bound structures used to make ATP, the main energy molecule of a cell, using membrane folds called **cristae**
- **Chloroplasts (CP):** Membrane-bound storage organelles that are very large in plant cells
- **Centrioles (CR):** Serve as a base structure to pull chromosomes apart during cell division
- **Chloroplasts:** Membrane-bound structures that convert light energy into chemical energy through photosynthesis using internal membrane sacs called **thylakoids**
- **Peroxisomes:** Membrane-bound organelles that isolate reactions that require hydrogen peroxide, which if not restricted, could kill the cell
- **Lysosomes:** Membrane-bound organelles that isolate digestive reactions, which if not restricted, could damage or kill the cell

Viruses

- Use DNA or RNA as their genetic material
- Always have proteins on their surface that determine what type of cell they can infect
- Sometimes have a membrane around them to enclose the rest of the virus
- Always take over the machinery of the infected cell to make more virus particles
- May kill a cell quickly or infect a cell for a long time and make more viruses slowly
- Can often cause disease in humans
- Can infect all types of cells, from bacteria, to plants, to humans, depending on the virus

Cell Metabolism & Energy

- **ATP:** Main energy source of a cell
 - Animals break down sugars, particularly glucose, to make ATP
- **Aerobic metabolism:** Breakdown of carbohydrates, fat, or proteins in the presence of oxygen, more efficient
 - Formula: $C_6H_{12}O_6 + 6O_2 \rightarrow 6H_2O + 6CO_2$
- **Fermentation (anaerobic metabolism):** Breakdown of sugar in the absence of oxygen

- Fermentation used in making beer and bread results in the production of alcohol.

Human Body Systems

System	Organs Involved	Major Functions
Circulatory	Heart, blood vessels, and red blood cells	Transport nutrients and wastes
Digestive	Stomach, small intestine, and the gall bladder	Extract nutrients from food
Endocrine	Pituitary and adrenal glands	More control of body systems
Excretory	Kidneys, large intestine, and the bladder	Remove waste from the body
Immune	Spleen, thymus, and white blood cells	Protect from infection
Integumentary	Skin, hair, and nails	Provide outer protection from environment
Muscular	Muscles and smooth muscles	Provide voluntary and involuntary movement
Nervous	Brain, spinal cord, and nerves	Provide rapid control of body systems
Reproductive	Ovaries, testes, and uterus	Born children
Respiratory	Lungs and trachea	Bring oxygen in and expel carbon dioxide
Skeletal	Bones	Provide structural support and protection

Health Issues

- Diseases and viruses can live on many surfaces, including other people.
- Washing your hands is a good way to keep from picking up diseases.
- Cover your mouth when coughing or sneezing to reduce the spread of germs.
- Vaccines are the best way to prevent a virus from infecting a person.
- Antibiotics can kill most bacteria, but have no effect on viruses.
- Always take a full dose of antibiotics when prescribed by the doctor in order to kill all the bacteria.
- Cover cuts with antibiotic ointment and a clean bandage.
- Drugs
 - Overusing any drug, even one prescribed by a doctor, can lead to **addiction**.
 - Addiction is very hard to break—some people never can.
 - Moderation is the best way to use any drug, including alcohol or caffeine.
 - Always take prescribed drugs only as described by the doctor.
 - Illegal drugs are never as pure as legal ones, you don't know what is really in them!

Reproduction & Heredity

- **Genotype:** Reproductive cell containing half the genetic information (**haploid**)
 - Male: Sperm
 - Female: Egg
- Each human gamete contains 23 chromosomes made up of DNA and proteins.
- The chromosomes contain one copy of every gene that provides a blueprint to make a person.
- You have two copies of every gene—one from each parent (**diploid**).

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