

The Biochemical Nature of the Cell

Water is the main component of organisms, and provides an aqueous environment in which metabolic reactions can occur. Apart from water, most other substances in cells are compounds of carbon, hydrogen, oxygen, and nitrogen. The combination of carbon atoms with the atoms of other elements provides a huge variety of molecular structures, collectively called organic

molecules. The organic molecules that make up living things can be grouped into four broad classes: carbohydrates, lipids, proteins, and nucleic acids. These are discussed in more detail in subsequent activities. In addition, a small number of elements and inorganic ions are also essential for life as components of larger molecules or extracellular fluids.



Chromosome
Nucleotides and nucleic acids
Nucleic acids (DNA and RNA) encode information for the construction and functioning of an organism. Most of a eukaryotic cell's DNA is found in the nucleus. The nucleotide, ATP, is the energy currency of the cell.



Lipids provide insulation and a concentrated source of energy. Phospholipids are a major component of cellular membranes, including the membranes of organelles. Above: Thylakoid of a chloroplast

Water is a major component of cells; many substances dissolve in it, metabolic reactions occur in it, and it provides support and turgor.

Certain elements and inorganic ions are important for the structure and metabolism of all living organisms. An ion is simply an atom (or group of atoms) that has gained or lost one or more electrons. Many of these ions are soluble in water. Some of these elements and inorganic ions required by organisms and their biological roles are listed in the table on the right.

Ion or Element	Name	Example of Biological Roles
Ca^{2+}	Calcium	Component of bones and teeth, required for muscle contraction
NO_3^-	Nitrate	Component of amino acids. Bioavailable form of nitrogen for plants.
Fe^{2+}	Iron (II)	Component of hemoglobin and cytochromes
S	Sulfur	Component of the thiol (-SH) functional group and part of many organic molecules, e.g. coenzyme A and some amino acids.
P	as phosphate	Component of phospholipids, and nucleotides, including ATP
Na^+	Sodium	Component of extracellular fluid and needed for nerve function
K^+	Potassium	Important intracellular ion, needed for heart and nerve function
Cl ⁻	Chloride	Component of extracellular fluid in multicellular organisms



Carbohydrates form the structural components of cells, e.g. cellulose cell walls (arrowed), they are a store of energy, and they are involved in cellular recognition.



Proteins may be catalytic (enzymes), structural (e.g. collagen in skin, proteins in ribosomes), or they may be involved in movement, message signaling, internal defense and transport, or storage. Above: ribosomes in translation

1. Describe the biologically important roles of each of the following molecules:

- (a) Lipids: _____
- (b) Carbohydrates: _____
- (c) Proteins: _____
- (d) Nucleic acids: _____

2. Identify the most four most common chemical elements in living organisms: _____

3. Giving examples, describe the roles of some of the less common elements in living organisms: _____

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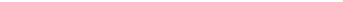
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