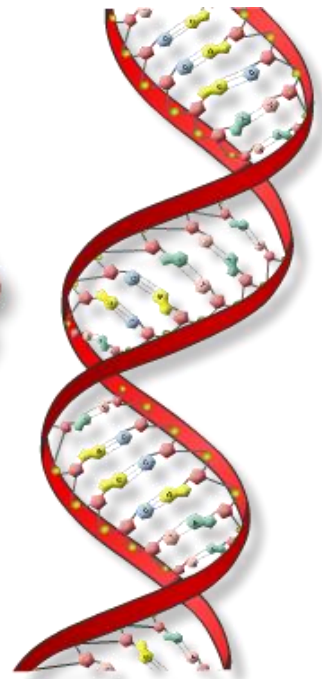
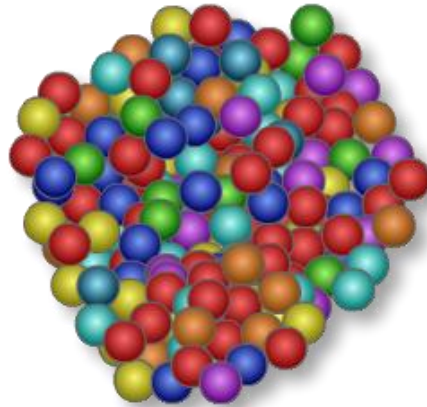
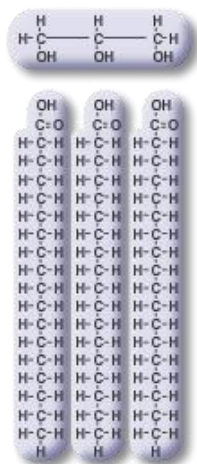


Bio-molecules



Bio-molecules

The living matter is composed of mainly six elements — **carbon, hydrogen, oxygen, nitrogen, phosphorus** and **sulfur**. These elements together constitute about 90% of the dry weight of the human body. Several other functionally important elements are also found in the cells. These include Ca, K, Na, Cl, Mg, Fe, Cu, Co, I, Zn, F, Mo and Se.

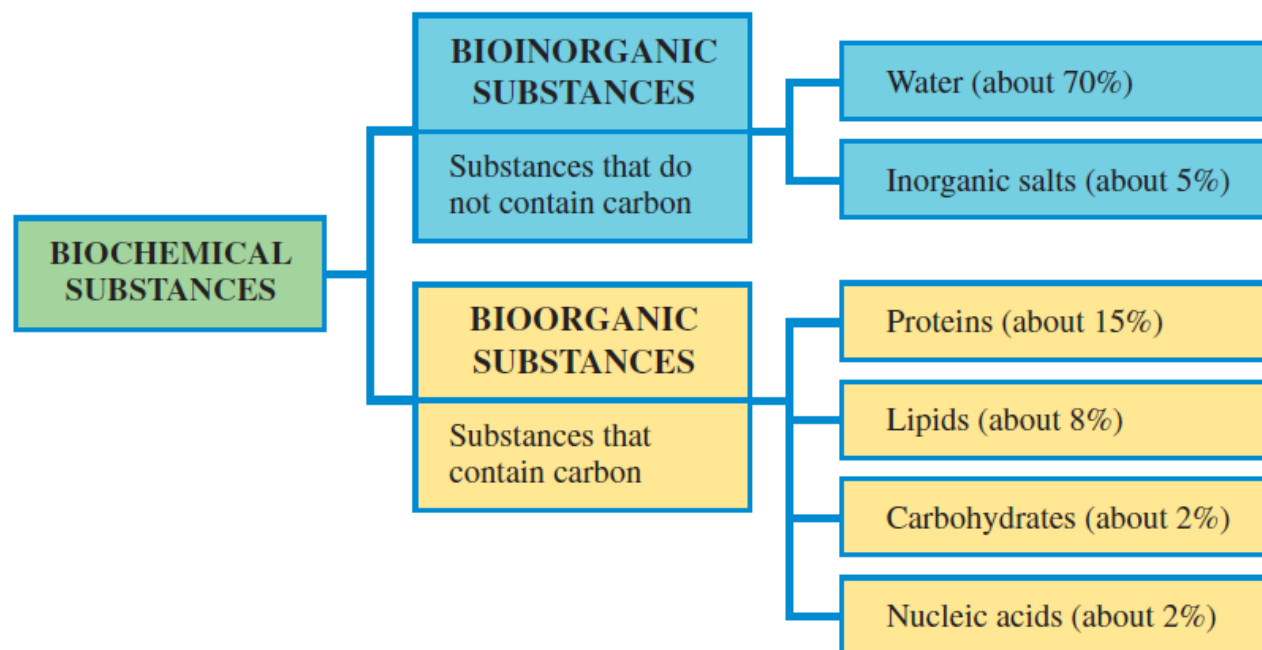
A **biochemical substance** is a chemical substance found within a living organism.

Biochemical substances are divided into two groups:

Bioinorganic substances: include water and inorganic salts.

Bioorganic substances: include carbohydrates, lipids, proteins, and nucleic acids.

The figure below gives an approximate mass composition for the human body in terms of types of biochemical substances present.



Although the human body is usually thought of as containing mainly organic (biochemical) substances, such substances make up only about one-fourth of total