

KNOWNS



1. The cell is the basic unit of life. It is the smallest unit of an organism that can perform all the functions of life. Cells are present in all organisms. Some organisms are made of only one cell (unicellular), while others are made of many cells (multicellular).

2. Cells are surrounded by a cell membrane. This membrane is made of phospholipids and proteins. It controls the entry and exit of substances into and out of the cell. In plant cells, there is an additional layer called the cell wall, which is made of cellulose and provides structural support.

Organelle	Function
Nucleus	Contains genetic material (DNA and RNA) and controls cell activities.
Cytoplasm	Provides a medium for organelles and is the site of many metabolic reactions.
Cell membrane	Controls the entry and exit of substances into and out of the cell.
Cell wall	Provides structural support and protection in plant cells.
Mitochondrion	Produces energy for the cell through cellular respiration.
Golgi apparatus	Processes and transports proteins and lipids.
Lysosome	Digests and recycles cellular waste.
Vacuole	Stores water, nutrients, and waste products.
Centrioles	Organize microtubules and are involved in cell division.