

Similarities between plant and animal cell

Organelle	Structure	Function
Cell membrane	Thin, living membrane (skin) found on the inside of cell wall. Also called the plasma membrane or plasmalemma.	Encloses the contents of the cell and controls the entry and exit of substances of the cell. It is selectively permeable.
Protoplasm	Entire living contents of the cell. Made up of nucleus and cytoplasm.	Many chemical reactions take place inside the protoplasm to help the cell function.
Cytoplasm	A jelly-like substance that makes most of the cell. Part of the protoplasm that surrounds the nucleus. Part of the protoplasm that surrounds the nucleus.	Contains all the organelles. Chemical reaction takes place here. Supports and maintains that shape of the cell.
Nucleus	A spherical structure found in all living cells. Enclosed by a nuclear membrane. Contains fluid called nucleoplasm. Has a smaller dense body inside it called nucleolus.	Controls all the activities of the cell. Contains DNA, which determines inherited characteristics such as eye colour and height.
Mitochondria	Small rod-shaped structures.	Referred as the power house of the cell as they break down to release energy. This process is called cellular respiration.