



The cell wall is the outermost layer of the cell, providing structural support and protection. It is composed of cellulose, hemicellulose, and pectin. The cell membrane is a phospholipid bilayer that regulates the movement of substances in and out of the cell. The nucleus is the control center of the cell, containing the cell's genetic material (DNA) and a nucleolus. The vacuole is a large, fluid-filled sac that stores water, nutrients, and waste products. The cytoplasm is the fluid-filled space between the cell membrane and the nucleus, containing various organelles and molecules.

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# PLANT CELL



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