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The plant cell is a journal of the American Society of Plant Biologists (ASPB), a prestigious non-profit founded in 1924 to promote the growth and development of plant biology with members on six continents. It serves plant cells have cell walls composed of cellulose, hemicelluloses, and pectin and constructed outside the cell membrane. Their composition contrasts with the cell walls of fungi, which are made of chitin, and of bacteria, which are made of peptidoglycan, and of archaea, which are made of pseudopeptidoglycan. Plant cell is the basic unit of all plants. Plant cells, like animal cells, are eukaryotic, meaning they have a membrane-bound nucleus and organelles. Their characteristic cell wall is composed of cellulose and they contain various components. A plant cell wall is arranged in layers and contains cellulose microfibrils, hemicellulose, pectin, lignin, and soluble proteins. These components are organized into three major layers: the primary cell wall, the middle lamella, and the secondary cell wall. Plant cells are the basic unit of life in organisms of the kingdom Plantae. They are eukaryotic cells which have a true nucleus along with specialized structures called organelles that carry out different functions. Plant cells have special organelles called chloroplasts which create sugars via photosynthesis. What is a plant cell? Plant cells are the basic unit and building blocks of life in organisms of the kingdom Plantae. They are cells that have a distinct nucleus and other cellular organelles enclosed within a membrane and thus are eukaryotic in origin. Structure and characteristics of a plant cell: A plant cell is the basic building block of a plant. Plant cells, like all eukaryotic cells, contain a nucleus and other organelles, each with its distinct functions. However, plant cells also possess unique components that differentiate them from animal cells. They have a cell wall and a large central vacuole that help contribute to the plant's structure and chloroplasts, which are responsible for cellulose synthesis. Cellulose is a far more complex structure than you'll generally find in a prokaryotic cell, and it's also one of the main things that differentiates a plant cell from an animal cell. Animals do not have this rigid cell wall; they have a flexible plasma membrane. Plant cells resemble other eukaryotic cells in many ways. For example, they are enclosed by a plasma membrane and have a nucleus and other membrane-bound organelles. A typical plant cell is represented by the

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