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The cell wall is a rigid structure that provides support and protection to the cell. It is composed of cellulose, hemicellulose, and lignin.

The cell membrane is a phospholipid bilayer that regulates the movement of substances in and out of the cell. It is selectively permeable, allowing only certain molecules to pass.

The nucleus is the control center of the cell, containing DNA and RNA. It is surrounded by a nuclear envelope with nuclear pores. The nucleolus is a dense region within the nucleus where ribosomes are synthesized.