







The diagram shows the following organelles and their functions:

- Nucleus:** Contains genetic material (DNA) and controls cell activities.
- Rough Endoplasmic Reticulum (RER):** Site of protein synthesis.
- Golgi Apparatus:** Processes and packages proteins.
- Mitochondria:** Site of cellular respiration, producing energy (ATP).
- Lysosomes:** Contain enzymes for breaking down waste materials.
- Cell Membrane:** Controls the entry and exit of substances.

The diagram illustrates the structure and function of a eukaryotic cell. The nucleus is the control center, containing DNA. The RER is involved in protein synthesis, while the Golgi apparatus processes these proteins. Mitochondria generate energy for the cell, and lysosomes are responsible for waste disposal. The cell membrane maintains the cell's internal environment.

Labels in the diagram include:

- Nucleus
- Rough Endoplasmic Reticulum
- Golgi Apparatus
- Mitochondria
- Lysosomes
- Cell Membrane





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