

Cells Flashcards PDF

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What is the basic unit of life?

The cell.

What are the two main types of cells?

Prokaryotic and eukaryotic cells.

What is the function of the cell membrane?

To protect the cell and control what enters and exits.

What organelle is known as the powerhouse of the cell?

The mitochondria.

What is the jelly-like substance inside the cell?

Cytoplasm.

What structure contains the cell's genetic material?

The nucleus.

What is the function of ribosomes?

To synthesize proteins.

What is the role of the endoplasmic reticulum?

To transport materials within the cell.

What organelle is responsible for packaging and distributing proteins?

The Golgi apparatus.

What is the function of lysosomes?

To digest waste materials and cellular debris.

What is the difference between plant and animal cells?

Plant cells have a cell wall and chloroplasts, while animal cells do not.

What is the function of chloroplasts?

To conduct photosynthesis.

What is the role of the cell wall?

To provide structure and support to plant cells.

What is the function of the cytoskeleton?

To maintain the cell's shape and assist in movement.

What are the small structures within a cell that perform specific functions called?

Organelles.

What is the process by which cells divide called?

Cell division.

What is the term for the movement of water across a semipermeable membrane?

Osmosis.

What is the function of the plasma membrane?

To regulate the movement of substances in and out of the cell.

What is the term for the network of protein filaments and tubules in the cytoplasm?

The cytoskeleton.

What is the role of vacuoles in plant cells?

To store nutrients and waste products.