



QUESTION

1. What is the function of the nucleus?

2. How does the cell membrane control the entry and exit of substances?

3. What is the role of the Golgi apparatus?

4. How do organelles cooperate to perform cellular functions?

5. What is the significance of the cell cycle?

ANSWER

1. The nucleus contains the cell's genetic material (DNA) and controls the cell's activities.

2. The cell membrane is selectively permeable, allowing certain substances to pass while blocking others.

3. The Golgi apparatus processes and packages proteins for transport within the cell or for secretion.

4. Organelles have specialized functions that work together to maintain the cell's overall health and perform its tasks.

5. The cell cycle is the process by which a cell grows and divides to produce new cells, ensuring the continuity of the organism.

Diagram 1: Cell Structure

Diagram 2: Cell Cycle