

Cell Biology

1. Remembering: Recall the structure and functions of the plasma membrane, actin filaments, nucleus, and Golgi apparatus in cell biology.
2. Understanding: Explain the organization and roles of actin filaments, nucleus, and Golgi apparatus in the context of cell structure and function.
3. Applying: Apply knowledge of the cell cycle, cell death, and cell renewal processes to understand their significance in maintaining cellular homeostasis.
4. Analyzing: Analyze the mechanisms of protein sorting, targeting, and transport within cells, including the GERL system-Golgi apparatus pathway.
5. Evaluating: Evaluate the components and mechanisms of signal transduction, including G-protein coupled receptor signaling, and their importance in cellular communication and response.
6. Creating: Develop potential research hypotheses or experimental designs related to cell biology topics such as protein sorting, signal transduction, and cell cycle regulation.

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