

# Cell Cycle Regulation

How does a cell know it is time to divide?

## Why?

Quality control inspectors typically do not limit their product testing to the final product at the end of the assembly line. They monitor all aspects of production in hopes of preventing larger problems down the line. Likewise, when cells are progressing through the cell cycle there are processes in place that check on the cell's progress. Is everything happening according to plan? Are there sufficient resources to complete the task of cell division? Tightly regulating the cell cycle keeps a multicellular organism healthy by conserving materials. This ensures that new cells receive accurate genetic information, and also prevents uncontrolled growth that may lead to diseases like cancer.

## Model 1 – The Cell Cycle



1. Review the phases of the cell cycle in Model 1 by placing the abbreviated phase name (G<sub>1</sub>, S, G<sub>2</sub>, or M) next to the proper description.

- |                          |   |
|--------------------------|---|
| <u>  G<sub>1</sub>  </u> | The cell grows by producing more proteins and organelles.               |
| <u>  S  </u>             | DNA replication occurs.   |
| <u>  G<sub>2</sub> </u>  | The cell prepares for cell division with the appearance of centrosomes. |
| <u>  M  </u>             | Mitosis and cytokinesis occurs.   |

2. Some cells, like mature nerve cells or muscle cells, do not divide. Other cells will divide only when the cellular environment signals that it is necessary. According to Model 1, what "phase" of the cell cycle are these cells said to be in when they are not dividing or planning to divide?

According to Model 1, the G<sub>0</sub> phase of the cell cycle is where these cells are located in when they are not dividing or planning to divide.

# 18 Cell Cycle Regulation Packet Answers

**Julia Schneider**



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