

started, and it checks the DNA to ensure that there is no DNA damage. Each of these signals activates certain proteins, which start a cascade of signal transduction pathways that tell the cell to proceed or pause the cell cycle. If any of these conditions are not met, or if the cell receives a signal to go into quiescence, it will enter the non-dividing G<sub>0</sub> phase.

The next checkpoint, the **G<sub>2</sub> checkpoint**, comes near the end of the second growth phase. During this checkpoint, the cell ensures that DNA replication has been completed and that the DNA has not become damaged. If there is no DNA damage, the cell releases chemicals that start signal transduction pathways that lead the cell into cell division. If there has been DNA damage, the cell will enter the process of **apoptosis** (a.k.a. cell death) to ensure that the genetic alterations are not passed on. If this process fails, this usually means that the genes controlling the checkpoint signal transduction pathways are damaged. This is sometimes what leads to cancer cells dividing out of control!

The final checkpoint occurs during metaphase of mitosis. Sometimes called the **M checkpoint** and sometimes called the **Spindle Checkpoint**, this checkpoint takes place as the chromosomes line up on the metaphase plate. Essentially, this checkpoint ensures that the chromosomes are going to be evenly divided so both new cells have a full genetic code!

Think about this... Cancer is essentially a disease caused by a lack of regulation within the cell cycle. Theoretically, cancer is a curable disease if we can learn how to identify which cell cycle checkpoints have been corrupted, which molecules are not functioning properly, and how to synthesize and distribute those molecules to the cancer cells to stop them from dividing out of control. Keep this in mind as we start to learn the basics of how the cell cycle is regulated!

So, what are these molecules that actually control the cell cycle? The most common molecules involved in regulating the cell cycle are **cyclins and cyclin-dependent kinases** (CDKs).

When a cell checkpoint is passed, a signal transduction pathway is initiated that includes cyclins and CDKs. For example, if the cell cycle checkpoint is checking the DNA for damage, the enzyme that checks the DNA for damage can start the signal transduction pathway. When this enzyme finishes checking the DNA, it signals a process that creates a **cyclin protein**.

# Ap Biology 03gene Regulation Answer Key

**Patrick Vollmar**



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