

Cell Division: To Stop or Not To Stop?

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Outline:

- Built-in Controls in Mitosis
 - Cells have a built-in control that keeps them from dividing too much.
 - One main control is contact inhibition, it's when cells communicate, and touch and tell each other when to stop.
 - There is another control called "go, no-go" switches. They're located along the path that the cell cycle takes and choose to continue or discontinue the process of cell division.
- What is Cancer? What Causes Cancer?
 - Cancer is a class of diseases characterized by out-of-control cell growth. There are over 100 different types of cancer, and each is classified by the type of cell that is affected.
 - Cancer harms the body when damaged cells divide uncontrollably to form lumps or masses of tissue called tumors.
- Types of cancer.
 - There are tumors that affect the digestive, nervous, and circulatory systems.
 - They can release hormones that alter body function.
 - Tumors that stay in one spot and demonstrate limited growth are generally considered to be benign.