



THE EUKARYOTIC CELL CYCLE AND CANCER

ABOUT THIS WORKSHEET

This worksheet complements the Click and Learn "The Eukaryotic Cell Cycle and Cancer" developed in conjunction with the 2013 Holiday Lectures on Science, "Medicine in the Genomic Era" (<http://www.biointeractive.org/eukaryotic-cell-cycle-and-cancer>).

PROCEDURE

Follow the instructions as you proceed through the Click and Learn and answer the questions in the spaces below.

Click on the "Background" tab on the right side.

1. Compare and contrast the reasons cell division is important for unicellular and multicellular organisms.

- reproduce organism
- repair dead/damaged cells
- development/growth

2. Provide an example of why cell division remains important to an adult organism even after it is fully developed.

replace cells that are dead/damaged, tissues w/ high turnover

3. What is the role of growth factors? - molecular signals
cause cells to divide

4. Cells divide, differentiate, or die. What is differentiation?

specialize in structure + function

5. What is apoptosis? Explain its purpose.

programmed cell death. Eliminates unnecessary cells + kills abnormal/damaged cells

6. Organisms maintain the right number of cells by regulating the cell cycle. What are "cell cycle regulators"?

molecular signals that stimulate or halt division

7. Watch the video clip of cell division in the small intestine. Name the general location along the villus where the following processes occur:

Cell Division: outside villi

Cell Differentiation: crypt → lumen

Apoptosis: top of villi

Eukaryotic Cell Answer Key

Annelies Wilder-Smith

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