

Virtual Lab: The Cell Cycle and Cancer

1. Open the virtual lab: The Cell Cycle and Cancer
2. Click on the Laboratory Exercise link.
3. **Click on the microscope** in the lab simulation to examine the different stages of mitosis as they appear in different tissue samples. Three types of tissue are available for examination: lung, stomach, and ovary. Samples of normal tissue and cancerous tissue are included. Click on the tissue box to examine different tissues. Examine both normal and cancerous tissue for lung and ovary tissue type only. Follow the instructions to label each stage of the cell cycle.
4. Record the number of cells in each stage of the cell cycle in Table 1 for normal tissues and Table 2 for cancerous tissues. You must examine three different views of each tissue type and condition – *click reset to view alternate samples* of each tissue type until you have recorded the number of cells in each stage of the cell cycle for 3 different samples of each tissue.
5. Calculate the average Mitotic Index (% cells dividing) and average % cells at rest for normal tissues. Record these numbers in Table 3 and 4 on your worksheet.

To calculate the average % cells at rest in normal tissue:

1. (# cells in Interphase in Sample 1 + # cells in Interphase in sample 2) = total # cells at rest.
2. (total # cells at rest/total #cells in both samples) X 100 = average % cells at rest

To calculate the Mitotic Index - average % cells dividing - in normal tissue:

1. (#cells in mitosis in Sample 1 + #cells in mitosis in Sample 2)/2 = avg. #cells dividing
2. (avg. # cells dividing/total # cells) X 100 = average % cells dividing

Table 1: Number of cells in each stage of the cell cycle observed in normal tissues.

Tissue Type	# Cells in Interphase	# Cells in Prophase	# Cells in Metaphase	# Cells in Anaphase	# Cells in Telophase
Lung Tissue Sample 1	19	1	0	0	0
Lung Tissue Sample 2	19	1	0	0	0
Ovary Tissue Sample 1	18	0	1	1	0
Ovary Tissue Sample 2	19	1	0	0	0

Cell Cycle And Cancer Virtual Lab Worksheet Answer Key

Nicholas B. La Thangue



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