

Cell Cycle Simulation

Name:	
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Go to the [cell cycle simulation](#) on Biology Simulations.

Experimental Question: How do the selected treatments affect the rate of mitosis in an onion root tip?

Treatment I:

Select one of the root treatments available to test (do not choose control, that will automatically be part of your experiment).

<i>Treatment I:</i>	
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Write your hypothesis:

Hypothesis:	
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Procedure:

1. Record the number of cells in interphase and the number of cells dividing for a control sample.
2. Select the treatment you are testing and click “Prepare New Sample.”
3. Record the number of cells in interphase and the number of cells dividing for the experimental sample.

Data:

	Control	Experimental
Interphase		
Mitosis		

Make a graph comparing your experimental and control samples.

Discussion:

1. Describe your results.

2. Based on your results and research, write an explanation of what is happening to cause the results you observed.

Conclusion:

Treatment II:

Select another root treatment to test.

<i>Treatment II:</i>	
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Write your hypothesis:

Hypothesis:	
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Repeat the procedure from Treatment I.

Data:

	Control	Experimental
Interphase		
Mitosis		

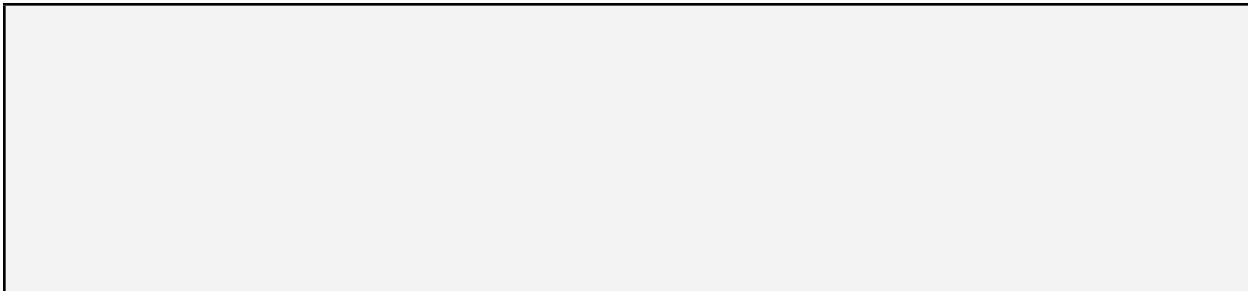
Make a graph comparing your experimental and control samples.

Discussion:

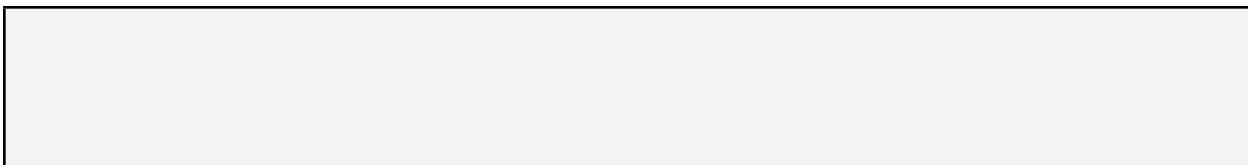
1. Describe your results.

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2. Based on your results and research, write an explanation of what is happening to cause the results you observed.

A large, empty rectangular box with a thin black border, designed for students to write their explanation of the results.

Conclusion:

A large, empty rectangular box with a thin black border, designed for students to write their conclusion.