

## *Onion Root Tip Mitosis Lab Answers*

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### **Onion Root Tip Mitosis Lab**

In order to examine cells in the tip of an onion root, a thin slice of the root is placed onto a microscope slide and stained so the chromosomes will be visible. The cells you'll be looking at in this activity were photographed with a light microscope and then digitized so you can see them on the computer.

### **Online Onion Root Tips - The Biology Project**

Root Tip Mitosis Page - rtm1 Mitosis in Onion Root Tip Cells A quick overview of cell division The genetic information of plants, animals and other eukaryotic organisms resides in several (or many) individual DNA molecules, or chromosomes. For example, each human cell possesses 46 chromosomes, while each cell of an onion possesses 8 chromosomes.

### **Onion root mitosis - Marietta College**

When observing the onion root tip cells for the stage of prophase, the cells took on a brick-like structure and within the cells, small dots (the nuclei) can be seen. In one particular cell's nucleus, the chromatin has condensed so much that it can be seen using a light microscope.

### **Onion Root Cell Cycle Lab Answers - SchoolWorkHelper**

The most commonly used root tips in labs to study mitosis are onion, wheat, lentil, barley and alfalfa. An onion root tip is a rapidly growing part of the onion and thus many cells will be in different stages of mitosis.

### **Mitosis in Onion Root Tips (Theory) : Cell biology Virtual ...**

The emphasis of this laboratory period will be on mitosis . At the right is a longitudinal section through an onion ( Allium) root tip. The root tip is responsible for the downward growth of the root and therefore, is one of the regions in the plant where cells are actively dividing and elongating.

### **Virtual Cell Biology Lab - Rutgers University**

This lab was an experiment designed to analyze how many cells could be observed in each part of mitosis for different areas of an onion root. First, with a prepared slide, area X and Y were located and each counted and recorded of what stages were observed. Then, another onion root tip was prepared and area Z was located.

### **Onion Root Tip Lab Report - Portfolio of Hannah Scott**

Mitosis in an Onion Root. Growth occurs when cells divide, so the root tips should have several cells in the process of cell division. View the root tip under the microscope and search for organized blocks of cells where nuclei are plainly visible. (Most activity will be occurring at the tip of the root).

### **Mitosis in an Onion Root - The Biology Corner**

LAB EXPERIMENT 4: Mitosis in Onion Root Tip Cells Objective After completing this exercise, you should be able to: 1. Better understand the process and stages of mitosis. 2. Prepare your own specimens of onion root in which you can visualize all of the stages of mitosis.

### **LAB EXPERIMENT 4: Mitosis in Onion Root Tip Cells**

Virtual Mitosis Lab: Part I - Onion Root Tip Introduction: Mitosis is considered nuclear division, since its main stages deal strictly with the nucleus and its contents (DNA). Mitosis consists of 4 major stages: Prophase, Metaphase, Anaphase, and Telophase. Mitosis is part of a larger process called the cell cycle.

### **Virtual Mitosis Lab: Part I - Onion Root Tip - ScienceGeek.net**

Mitosis Lab Report. The objective of this experiment was to calculate the percentage of cells in each of the phases of mitosis. There were two different slides, one of onion root tip and one of whitefish blastula. The slides were each placed under a microscope and observed. The stages were counted, and the percentages were calculated.

### **Mitosis Lab Report | matthiowong**

root to grow. Because each cell divides independently of the others, a root tip contains cells at different stages of the cell cycle. This makes a root tip an excellent tissue to study the stages of cell division. Materials: microscope prepared slides of onion (allium) root tips Procedure: 1. Get one microscope for your lab group and carry it to your lab desk with two hands.

### **Observing Mitosis Lab - nclark.net**

Take the onion plant with newly sprouted roots and cut two root tips using scissors and transfer them into a plastic microfuge tube. Fill 2/3 of the tube with 1N HCl using a dropper. Place the tube in a 60°C water bath and incubate the tube for 12- 15 minutes.

### **Mitosis in Onion Root Tips - Sakshat Amrita Virtual Lab**

View the root tip under the microscope and search for organized blocks of cells where nuclei are plainly visible. (Most activity will be occurring at the tip of the root). Move the slide around until you find a good spot that shows the cells in various stages of mitosis. \*Make-Up work, see Mitosis in an Onion Root makeup

### **Mitosis in an Onion Root Answer Key - The Biology Corner**

After the entire root has been removed, only the 1-cm tip should be cut off and used in the exercise. If using this as a student activity, several onions will be required to provide enough root tips for an entire class. • We can see mitosis in action in the root tips of sprouting onion (Allium sp.) because the chromosomes are particularly

### **Making Mitosis Slides - flinnsci.com**

In this lab, you will determine the approximate time it takes for a cell to pass through each of the four stages of mitosis. You may use your textbook and class notes to help you identify the stages of mitosis as seen under the microscope. Materials: Microscope, prepared slide onion root tip or whitefish blastula, textbook, lab worksheet, pencil

### **Mitosis Activity - BIOLOGY JUNCTION**

Mitosis in Onion Root Tips. Onion root tips are extremely popular for viewing the different phases of mitosis because the chromosomes are large and very dark when stained. The images shown below were taken using a regular light microscope with an oil immersion lens at 1000X.

### **Mitosis in Onion Root Tips - Green River College**

Mitosis in Onion Root Tip. The meristematic cells located in the root tips provide the most suitable material for the study of mitosis. The chromosome of monocotyledonous plants is large and more visible, therefore, onion root tips are used to study mitosis. Based on the kind of cells and species of organism, the time taken for mitosis may vary.

### **Study Mitosis in Onion Root Tip (Theory) - Amrita Online Lab**

(Note: The green onions need to be placed in water for 72 hours before the lab to encourage growth of the roots. If onions are not available, this can be done with garlic cloves or any other types of Allium.) Methodology based on Onion Root Tip Mitosis Lab as found on the Kansas Association of Biology Teachers BioBlog

### **Onion Root Tip Mitosis Lab - BetterLesson**

Walk-through of the preparation and procedure for the onion root tip mitosis lab.

### **Onion Root Tip Mitosis**

Mitosis Onion Root Tip Lab. November 19, 2011 1 Comment Uncategorized. Percentage of Cells in Each Mitosis Stage Question: How much time do cells spend in each part of the cell cycle? Hypotheses: If the tip of an onion root is magnified, then more than 90% of the cells will be in interphase.

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