

Plant cell lab report

I'm not robot!

Species Name	Animal cell (human)	Plant cell (onion)
Microscope Type	Light Microscope	Light Microscope
Slide	Animal Cell	Plant Cell
Stain	None	None
Microscope Objective	10x	10x
Microscope Eyepiece	10x	10x
Microscope Total Magnification	100x	100x
Microscope Objective	10x	10x
Microscope Eyepiece	10x	10x
Microscope Total Magnification	100x	100x
Microscope Objective	10x	10x
Microscope Eyepiece	10x	10x
Microscope Total Magnification	100x	100x
Microscope Objective	10x	10x
Microscope Eyepiece	10x	10x
Microscope Total Magnification	100x	100x

1. The animal cell is fairly spherical in shape. It contains a nucleus and other organelles. The cell is surrounded by a cell membrane. It does not have a cell wall. It is surrounded by a cell membrane. It does not have a cell wall. It is surrounded by a cell membrane. It does not have a cell wall.
2. The plant cell is rectangular in shape. It contains a nucleus and other organelles. It has a thick cell wall. It is surrounded by a cell membrane. It has a large central vacuole. It is surrounded by a cell membrane. It has a large central vacuole.
3. The animal cell is fairly spherical in shape. It contains a nucleus and other organelles. It is surrounded by a cell membrane. It does not have a cell wall. It is surrounded by a cell membrane. It does not have a cell wall.
4. The plant cell is rectangular in shape. It contains a nucleus and other organelles. It has a thick cell wall. It is surrounded by a cell membrane. It has a large central vacuole. It is surrounded by a cell membrane. It has a large central vacuole.

1. **CELLS (1) (HUMAN) WITH MICROSCOPE LAB**

Objective (aim): Identify (name) the cell types.

PROBLEM: To identify animal and plant cells.

Introduction:
 A cell is the basic unit of life. It is the smallest unit of life that can carry out all the processes of life. Cells are the building blocks of life. They are the smallest units of life that can carry out all the processes of life. They are the smallest units of life that can carry out all the processes of life.

The cells of animals and plants have several distinguishing characteristics. Animal cells are characterized by the presence of a nucleus, a cell membrane, and a cytoplasm. Plant cells are characterized by the presence of a cell wall, a large central vacuole, and a nucleus. The cell wall is a rigid structure that surrounds the cell. The large central vacuole is a fluid-filled sac that occupies most of the cell's volume. The nucleus is a spherical structure that contains the cell's genetic material.

- Objectives:**
1. To prepare and observe human cheek cells and onion skin cells under a microscope.
 2. To compare the structure of animal and plant cells.

Equipment and Materials:

Microscope	Microscope Slides	Microscope Cover Slips
Human Cheek Cells	Onion Skin	Water
Microscope Slides	Microscope Slides	Microscope Slides

- Method / Procedure:**
- (i) Cheek cells preparation and observation:**
1. A clean microscope is prepared and the microscope is checked to ensure it is properly set up.
 2. The end of the microscope is used to scrape the inner surface of the cheek.
 3. A small drop of water is placed on the slide and the cells are spread across the surface of the slide.
 4. A cover slip is placed over the cells and the slide is covered with a cover slip.
 5. The slide is placed on the microscope and the cells are observed under a microscope.

2.7 Plant Cells & Tissues
 Virtual Garden 4.1 (2017) Lab Report
 Turn in this Lab Report in the 2.7 Portfolio

Objectives 10 pts: Predict how soil pH will affect flower color and plant height in your garden.
 Low pH: Flower color will be _____, height will be _____.
 High pH: Flower color will be _____, height will be _____.

Day 10 pts
 Virtual Garden Observation Data Chart A - Watering the Seeds

Day 8 - Two Observations

Peonies (2)	one tall stem, two leaves	upright with small red stems
Hydrangeas (2)	one tall stem, two leaves	upright with small red stems
Sunflowers (2)	one tall stem, two leaves	upright with small red stems

Virtual Garden Observation Data Chart B - Low pH (2 weeks later)

Peonies (2)	light yellow	6.2 m
Hydrangeas (2)	dark and light purple	6.2 m
Sunflowers (2)	yellow	6.2 m

Virtual Garden Observation Data Chart C - High pH

Peonies (2)	dark purple	6.2 m
Hydrangeas (2)	light purple	6.2 m
Sunflowers (2)	yellow	6.2 m

Conclusions 10 pts:

1. Research in Florida - complete the comparison table:

	Western (Hydrangeas)	Great (Peonies & Sunflowers)
Flower parts in groups of	5	4-5
Flower System	Merist	Apical
Flower Number in Stem	indefinite	definite
Leaves	Paraphyll	non or modified leaves

Title : PLANT STRUCTURE AND ANATOMY

Introduction

Plants are made up of two organ systems: the shoot system and the root system. For terrestrial plants the shoot system is above ground and consists of a number of organs. These include stems, leaves, and flowers. On the other hand, the root system is most often underground and consists of organs such as roots, underground stems, and rhizomes. Each of these organs performs a different function. Stems are support structures and mediate the growth of the plant. Shoot tips contain actively dividing regions called meristems, which produce auxin, a hormone that regulates the growth and shape of the plant. Leaves are the primary sites of photosynthesis, so they are the food production centers of the plant. Flowers are reproductive structures, where eggs and sperm (pollen) are produced and where pollination and fertilization occur. Roots, tubers, and rhizomes are the main system for nutrient and water acquisition and storage. All of these organs are made up of cells that can be categorized into three major tissue types which are dermal, ground, and vascular tissue.

Materials

Plant, Eosin, prepared slide (cross section of roots), cover slip, clean slip, filter paper, scalpel, forceps, beaker, tiles, microscopes.

Method

a. Stems

1. Plant A with leaves and roots was obtained.
2. The soil was removed from the plant.
3. Thin section of the stem and leaf was sliced off on the tile.
4. A few drops of eosin was put on the thin section for 5-10 minutes.
5. The stem was transferred carefully on the slide.
6. The specimen was observed under microscope.
7. The observations was drawn under low and high magnification.

b. Leaves

1. Thin slice of cross section of the C3 and C4 leaves was cut.
2. C3 and C4 leaves was observed under microscope.
3. The observation was drawn and labelled.

c. Root

1. The prepared slide was observed under microscope.

TITLE:
INTRODUCTION:
COURSE: BSC
DATE: September 24, 2024
LAB REPORT #:
TOPIC: ANIMAL AND PLANT CELLS

PURPOSE:

- To learn staining techniques and to observe human cheek cells and onion skin cells under a microscope.

INTRODUCTION:

- All living things are made up of cells which are the basic unit of life. A cell is made up of an outside lining called the cell membrane. A plant cell has a cell wall which gives its shape while the animal does not. Inside the cell there is a structure called nucleus of a material called the nucleolus, which allows movement of substances within the cell in both plant and animal cell. In prokaryotes, the cell wall is made of peptidoglycan, while the thick cells will be covered by a layer known as glycocalyx, granular and mucous. A large space, the cell wall will be present in plant or filled out in an animal cell. Cytoplasm and nucleus will be present in both plant and animal cell. In both the hypodermis, a hemocytoblast cell and an oncoside skin cell will be observed under a microscope.

MATERIALS:

- Microscope
- Cover slip
- Glass slide
- Cheek cells
- Toothpick
- Dropper
- Eosin
- Onion skin
- Micrograph paper

Plant growth lab answer key. Plant cell lab report introduction. Observation of plant cell lab report. Plant cell overview. Biology lab report plant cell. Animal and plant cell lab report. Plant cell lab report discussion. Plant cell lab report conclusion.

Page ID26444 Purpose: Students will observe plant cells using a light microscope. Two cells will be observed, one from the skin of an onion, and the other from a common aquarium water plant (anacharis). Students will compare both types of cells and identify structures visible in each. Prelab Questions What is the function of chloroplasts? Name two structures found in plant cells but not animal cells. Name three structures found in plant cells AND in animal cells. What structure surrounds the cell membrane (in plants) and gives the cell support. Obtain a prepared slide of onion cells or prepare one yourself. View under the microscope and sketch the cells at each magnification. Label the cell wall, nucleus, and cytoplasm as they appear under high power. View a prepared slide of elodea (anacharis), which is an aquarium plant. As the slide warms from the light of the microscope, you may see the chloroplasts moving, a process called cytoplasmic streaming. Label the cell wall, chloroplasts, and cytoplasm as they appear under high power. Describe the shape and the location of chloroplasts. Why were no chloroplasts found in the onion cells? (hint: think about where you find onions) Which type of cell was smaller the onion cells or the elodea cells? How do you know? Fill out the Venn Diagram below to show the differences and similarities between the onion cells and the elodea cells. Did you notice the chloroplasts moving within the cytoplasm of the elodea plant? Do they all move in the same pattern or direction? Suggest a reason why these structures move. Develop a quick experiment to test your hypothesis. Describe the test below, and if you have time conduct the test. Was this article helpful? You're Reading a Free Preview Page 4 is not shown in this preview. Thank you for your participation!

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