

Epub free Elodea onion cheek cell lab answers (Read Only)

the main difference between onion cell and human cheek cell is that the onion cell is a plant cell with a cell wall made up of cellulose whereas the human cheek cell is an animal cell without a cell wall key points all living organisms are made up of cells cells are the smallest part of a living organism and are around 0.01 mm to 0.03 mm long to look at a cell close up a microscope needs to be used the onion peel cell experiment is very popular for observing a plant cell structure this post explains the theory requirements procedure observation result and precautions of the onion peel cell experiment gently scrape the inside of your cheek with a toothpick and swirl it in the dye on the slide place a cover slip on the suspension and view at 1000x total magnification draw 1-3 cells large enough to show the detail that you see in your lab manual label its cell membrane cytoplasm and nucleus unlike animal cells such as cheek cells the cell wall of an onion and other plants are made up of cellulose which protects the cell and maintains its shape how to obtain a thin layer of onion cells an onion is made up of layers that are separated by a thin membrane the onion and cheek cell lab background onion tissue provides excellent cells to study under the microscope the main cell structures are easy to see when viewed with the microscope at low power for example you will observe a large circular nucleus in each cell which contains the genetic material for the cell the human cheek cell will serve as the model of a typical animal cell this video explains how to prepare and observe stained temporary mounts of onion peel and human cheek cells visualizing onion and cheek cells expand immediately before the experiment wash and peel onion bulbs for the class remove the entire brown outer skin and cut the onion in half with a knife the human cheek cell 1 list the 3 parts of the cell theory 2 describe or define each of the following cell membrane cytoplasm nucleus organelle 3 sketch the cell at low and high power label the nucleus cytoplasm and cell membrane draw your cells to scale 4 why is methylene blue necessary 5 visualizing onion and human cells in this experiment you will

prepare different types of cells from a plant and animal onion and human respectively and then visualize them under a microscope what do onion cells look like under the microscope studying cell tissues from an onion peel is a great exercise in using light microscopes and learning about plant cells since onion cells are highly visible under a microscope especially when stained correctly loaded 0 ncert class 9 science lab manual slide of onion peel and cheek cells aim to prepare stained temporary mounts of onion peel and human cheek cells and to record observations and draw their labelled diagrams theory plant cell to be studied in lab onion peel introduction in the lab the cell of the biology lab primer you will review the major organelles of eukaryotes investigate plant cell structures discover how chloroplasts while undergoing photosynthesis identify easily identifiable organelles within human cells conduct a gram stain to visualize plaque bacteria onion cell and cheek cell lab background onion skin cells have many rectangular cells that are easy to see under a light microscope many of the organelles cannot be seen with a light microscope because they are generally clear or too small however you can observe the cell wall nucleus and cytoplasm the cell membrane is right inside the 1 place a drop of methylene blue on a slide 2 use a toothpick to gently scrape the inside of your cheek 3 swirl the toothpick in the drop of methylene blue 4 place a coverslip over the drop 5 view cells with the scanning low power and high power objective microscope views scanning objective 40x low power 100x high power 400x draw an onion cell and label the cell wall plasma membrane cytoplasm nucleus nucleolus central vacuole and tonoplast why are there no chloroplasts in this plant cell consider where an onion bulb would be located in a garden setting to answer your question onion cells you usually use epithelial cells for this experiment are normal cells with all of the normal organelles nucleus cytoplasm cell wall and membrane mitochondria ribosomes rough and smooth endoplasmic reticulum centrioles golgi body and vacuoles the most common specimens to observe under a light microscope are cheek cells animal cells and onion cells plant cells stains are used to highlight structures within cells methylene blue is used to stain cheek cells iodine for onion cells care must be taken to avoid smudging the glass slide or trapping air bubbles

under the coverslip an onion cell is a plant cell and a cheek cell an animal cell the main differences between plant and animal cells are that plant cells have cellulose cell wall large vacuole chloroplasts if the plant is green animal cells have none of the above a cheek cell is a flat squamous cell from the inner lining of the mouth the cell theory states that all living things are composed of cells which are the basic units of life and that all cells arise from existing cells in this course we closely study both types of cells prokaryotic and eukaryotic

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plant physiology what organelles are in an onion cell Jan 06

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differentiate between the structure of onion cells and cheek

Nov 04 2022 an onion cell is a plant cell and a cheek cell an animal cell the main differences between plant and animal cells are that plant cells have cellulose cell wall large vacuole chloroplasts if the plant is green animal cells have none of the above a cheek cell is a flat squamous cell from the inner lining of the mouth

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the cell theory states that all living things are composed of cells which are the basic units of life and that all cells arise from existing cells in this course we closely study both types of cells prokaryotic and eukaryotic

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