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Lab report plasmolysis about onion cell

Activity exploration: osmosis in helodea cells or onion cells introduction: one of the functions of the cell membrane is to control the flow of materials inside and out of the cell. In this survey, the effects of plant cell in various concentrations will be observed. materials: elodea leaves or red onion, microscope slides, cover slips, microscope, distilled water or tap water, 2.% paper towel solution. Methods: prepare a wet support of a helodea leaf or red onion skin with tap water. observe the leaf at 40x and record your observations. increase magnification to 100x, observe and record your observations. remove the slide from the microscope phase. place 2 drops of the 5% salt solution on the slide at the edge of the cover slip. turn off a small piece of paper towel and place the ripped edge on the slide to the edge of the lid which is in front of the side where the salt solution was placed. the towel piece should begin to soak water, drawing the salt solution under the cover slip as it does. methods (cont'd): the slide returns to the microscope stage and repeats the observations of cells at 40x and 100x. record your comments. you can find even more dramatic to watch 400x. repeat the above procedure with the other sample of plants (elodea or onion.) record your observations. remove the slide from the stage, clean it and cover slip, and put it away. Put the microscope at low power and put it away. Comments: prepare sketches of a group of helodea cells or onion cells in each set of conditions. label sketches to annotate the cell structures you can identify. make sure you notice any changes in color, size and shapecells. make your sketches as precise as possible. conclusions: answer the following questions. What is the form of the cell typical of helodea or onion cell? which are the small green blobs found within the cells? What is their function? what happens to cells?Does salt water flow under cover slip? What happens to cells if / when salt water is emptied with distilled water? Elodea normally lives in fresh water. What changes would you see in the cells of an Elodea plant that was suddenly moved from fresh water to salt water? Why? When cutting onions, eyes can cry. What's in the onion that makes you cry? Would salt do something to that substance that makes you cry? 1. suggests a general question of research. 2. suggest a specific search question. 3. identify the independent variable: Is the interval enough? 4. identify the dependent variable: are the sufficient eplicas? 5. which other variables could affect the results? How can they be controlled? 1. where do the values of the x axis come from? 2. where are the values of the y axis? a. what does a positive change mean in the mass? b. What does a negative change mean in the mass?3. What can you learn from finding x interception? 4. How should the error be represented on each axis? ApparatusTweezers2 microscope flows Covering sheets An onion light microscopeAcoustic solution Distillate water tubes2 MethodUsing the tweezers peel a single layer of red cells from onion meat (only a small piece is required). Place the strip on a microscope slide. Repeat the first two steps. On one of the slides add some drops of distilled water- using a pipette. On the other slide add some drops of sucrose solution- using a pipette. Place slides under microscopes and observe. What to expect The distilled water slide should remain unchanged. Distilled water allows cells to remain turgid as it provides a high concentration of water outside the cell, thus limitingfrom the cell. However, cells on the slide containing sucrose solution plasmolize over time. this is due to the fact that the concentration of water within the cells is greater than outside the cells and therefore waterOsmosis. Due to the loss of water, cytoplasm does not exert much pressure against the cellular wall- which leads to irregular spaces. The results of my experiment are shown below: It is possible to observe the plasmolysis of the cells under the microscope. When salt water is added to onion cells, then cells will lose water due to osmosis, this can be observed. Materials It is necessary: kitchen knife, red onions, salt, tap water, microscopic slides, cover slides Method to obtain a single layer of red onion cells For this experiment, we cannot use onion skin that is located between the layers of onion. We need a single layer of pigmented cells. These cells, however, do not separate easily. We need a thin layer of cells of the red part of the onion. You can't directly cut a single cell layer, so we need to use the "drying method" to get a single layer of cells. Get a small piece of onion about (1cm x 1cm). The onion layer is about 2mm thick. With the red side of the onion overlooking you, cut under the red layer, about half the road in the onion. This cut should not be very thin. There will be about 1mm onion between the knife and the red pigmented layer. Press the onion firmly against the knife with the thumb. Now tear or detach the red part of the onion. The red layer will become thin. Some red pigments can be released from broken cells. Cut and discard the thick part of the onion (the place where the initial cut was placed). Observe the remaining cells (the thin and peeled part) under the microscope (using a glass slide, water and cover slip, of course. Consider only those cells that are filled with red pigment. TheWhite are broken and lost the red pigment. Method for plasmolysis Making a salt water saturation solution Using a pipette, add a drop of this solution to the sample. Salt water must flow under cover. There should be no need to remove the cover slip to add salt water If there is too muchwater under the cover slip, then salt water will not flow between the cover slip and slide. in this case use the fabric paper to take water from one side of the cover board, adding the salt solution to the other side. See what happens to the red pigment inside the cells. explanation of the water from the cells moves to the surrounding salt water. the shape of the cells does not change, the cell wall keeps the cell form. the cell content (the red part of the cell) begins to shine. At the same time it is possible to see that the intensity of the red pigment increases because it becomes more concentrated as the water is removed (the red pigment is not able to move out of the cell.) the process can be reversed when the salt water is removed and when the distilled water is added. Instead of simply using concentrated nacl (sale) solution, it is also possible to make solutions of different concentrations. in this case it should be possible to see a stronger plasmolysis with higher salt concentrations. try to determine the highest concentration of nacl to which plasmolysis cannot be observed. this concentration should therefore reflect the potential of the water of the onion cell inside. Alternatively, it is also possible to repeat the experiment with sugar water of different concentrations. add a drop of alcohol to the cells. Alcohol also has the tendency to withdraw water from cells. make a cut under the red layer and press firmly the red part of the onion against the edge of the knife, without cutting. carefully eliminate the layer of red cells. remove the thick part of the onion (where the cut was made) and observe only the thin layer. Many cells will probably break during this process and will be useless, we just need some intact cells.superior shows cells before plasmolysis. The cells are filled with a red pigment and appear pink. The lower image shows the same cells after adding salt water. salty cells will lose most of the water due to osmosis. The concentration of the pigment increases with a darker color. The shape of the cell wall remains unchanged. Not hit. how to do an onion cell experiment. how to look at onion cells under microscope. how to view onion cells under a microscope. onion cell plasmolysis lab answers

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