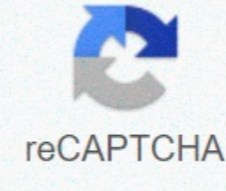




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Paramecium homeostasis gizmo answers

Student exploration: Paramecium Homeostasis Vocabulary: cell mouth, eyelashes, concentration, vacuole contractile, food vacuole, homeostasis, hypertonic, hypotonic, macronucleus, micronucleus, oral groove, osmosis, paramecium, soluté, solution, solvent Pre-knowledge questions (Do them before using Gizmo.) The images show red blood cells (RBCs) in three different solutions. What image shows RBCs in normal blood plasma? What image shows THE RBC in pure water? What image shows THE RBC in a very salty solution? What do you think is going on in images A and C? Gizmo Warming A paramecium is a single-celled organism that lives in ponds and other bodies of water. One of the challenges of a parameter is to maintain a stable size and shape. On the Paramecium Homeostasis Gizmo™, turn on the checkbox View labels. Try to determine the function of each of the labeled structures. What two structures do you think food enters the parameter? What are the two structures containing DNA? What small structures help the paramecium move? What structure pumps excess water and waste? Activity A: Maintain a watered balance Prepare the Gizmo: Select the user-controlled setting. Check that the water solute concentration is 1.00%. Introduction: Each organism must maintain stable internal conditions — a process known as homeostasis — in order to survive. A paramecium maintains homeostasis by responding to variations in the concentration of salt in the water in which it lives. (The concentration of a solution is equal to the amount of solute dissolved in a given amount of solvent.) Question: How does changes in solute concentrations affect a parameter? Predict: In The Paramecium Homeostasis Gizmo, solute is salt and solvent is water. Look at the top left of the Gizmo. What is the concentration of water solute? A solute concentration of 1.00% means that for every 1 gram of water there is 0.01 grams of solute (salt). What is the concentration of solutes inside the parameter? It is said that the water solution outside paramecium is hypotonic because it has a lower solute concentration than the solution inside the paramecium. Based on the concentrations of internal and external solute, do you think the parameter will swell or shrink in this solution? Explain your reasoning. Watch: Click Play () and observe the size of the parameter. What do you notice? What happens after about 16 seconds? Watch: Click Reset (). Set the water solute concentration to 2.00%. (This is a hypertonic solution because it has higher solute concentration than the solution inside the parameter.) Click Read. What happens to the volume of the parameter now? Inference: Water enters and exits the parameter through a process called osmosis. Osmosis is the movement of water through a membrane of a region with low solute solute a region with a higher solute concentration. If the concentration of solute in the water is low (hypotonic solution), does the water move in or out of the parameter? If the concentration of solute in the water is high (hypertonic solution), does the water move in or out of the parameter? In what situation is the parameter likely to swell and burst? Experience: The contractile vacuole is a star-shaped structure that helps the parameter pump excess water. Click Reset and set the water solute concentration to 1.00%. Click Read. When the contractile vacuole fills up, click Contract. Do this for a while, then click Pause (). How does vacuole contraction affect the volume of the parameter? Click Read, then click Contract several times quickly. What's going on? Experience: Click Reset. This time, try to maintain a steady volume for the parameter. Pause the simulation after about a minute and select the TABLE tab. How many contractions per minute were required for the parameter to maintain a relatively stable internal solute concentration and remain the same size? Think and discuss: How could a paramecium maintain its volume in a slightly hypertonic solution? If possible, discuss your answer with your classmates and the teacher's Activity B: Contractions and Concentrations Prepare gizmo: Click Reset. Select the Paramecium controlled setting on the DESCRIPTION tab. Question: How does a parameter respond to changes in solute concentrations? Form a hypothesis: How do you think the number of contractile vacuole contractions will change when the concentration of water solute is reduced? Explain why you think so. Collect data: Set water solute concentration to 2.00%. Click Read. Pause after 30 seconds. On the TABLE tab, add the total number of contractions. Save the results in the table below. Click Reset and repeat this procedure for all listed concentrations. Analyze: What model do you see in your data? How does that compare to your hypothesis? Predict: How many contractions do you expect in 30 seconds if the water solute concentration was 0.75%? Test your prediction with the Gizmo. Think and discuss: Paramecia who live in fresh water have contractile vacuoles, while those who live in salt water do not. Why do you think that is the case? Let's Ride - No conditions attached. This college course is 100% free and worth 1 semester of credit. Credit.

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