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Cota	

AP* Biology Laboratory 1 Diffusion and Osmosis

Objectives

- Use dialogs rubing to model diffusion across the cell membrane
- Investigate the toflumes of solute concentration on sensors
- Investigate the concept of enter potential in relation to water too extent into or out of plant cells.

Background to Activities A and B

The cell incombrane is a cell's inserting with its surroundings. In one sense, this membrane must function us a berrier, it must large register in one bandle the excress, UNA, and membrine must function by the provide. The cell insurbities must also function on a gaternay waste products must be discharged through to sell cocertial materials (congres, waste etc.) must enter through a A membrane that allows some molecules to pass through while blocking the passage of others is said to be semipromastible. Molecules pass through the cell mordsome either through processes that require the cell to expend energy (active transport), or through processes driven by the kinetic Electronic energy of solucions (quasity transport).

In those lab activities, you will investigate the partogy of manninks through a semigrormoshle manuferantly passive transport. The membrane you will use, dislost outing it semigrormoshle because it has submicroscopic holes through it. Minisculas are in consumit madern motion. By chance, a molecule's motion may move it toward the membrane (Figure 1). If it collides with the membrane and, it is bounded. If its estates takes it toward a pow, it may either pass through the pow, or it may schound, depending ages the size of the methodic relative to the discussor of the pow. Molacolos that are small enough to pass through the piece of the membrane solute malecules have displaced some of the water molecules. Thus, there is a higher concentration of water molecules are evaluable to collide with the membrane on the opposite side of the membrane. More water molecules are evaluable to collide with the membrane on the side having the higher concentration of water. Thus, although water molecules will move in both directors across the membrane, more will move from the side having the latter concentration or the side having the lower concentration. The powersers of molecules from around of higher concentration to the side having the lower concentration is ridded diffusion.

The diffusion of state molecular sample a semigerate life manufactor is territed isomests. A process that depends upon mardom minimum might seem inefficient, but so many some molecular my involved and they move as fact, that it is entirected that a real blood cell floating in blood plasma gains an amount of water equil to 125 times to over volume every second. It also loses the same amount of water each second, all by compute. This occurs because the concentration of solutes in the blood plasma is the same or fine concentration of solutes in red blood cells. Solutions that have the name solute exercisaries are betterior of solutes in red blood cells. Solutions that have the name solute exercisaries are betterior, if we took a sample of whole blood and solid such to the plasma, introducing its solute concentration, the plasma becomes hypertenic to the solution in the red blood cells, and the pells lose mater and thrick. If we said some to the blood plasma, decreasing its inducement of the plasma becomes hypertenic to the red blood cells. The cells gain water med, and may even buts.

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M Carnoy

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