

Cell Membrane Structure and Permeability

Introduction

Cells require the transportation of materials in and out of the cell membrane in order to complete activities such as photosynthesis, protein synthesis, ingestion, absorption, respiration, and elimination of waste. Molecules of matter move around in random directions until they collide with another molecule and change directions. The random motion of molecules in this way is referred to as Brownian motion. Because of these collisions, molecules move in a direction meant to lower the number of collisions that occur, meaning they travel from areas with higher concentrations of molecules to areas with lower concentrations of molecules, known as diffusion (Boyles, R., & Areda, D. 2017). Once concentrations have reached an equal number throughout the solution, it has achieved equilibrium.

Diffusion can happen across a membrane, which is described as either permeable or semi-permeable. A membrane that is semi-permeable, such as a cell membrane, will allow certain molecules to pass through it and block other molecules from passing. (Boyles, R., & Areda, D. 2017). Water moves across semi permeable membranes through a process called osmosis. During osmosis, water travels across a semi permeable membrane from areas of less solute to areas of more solute in order to make the ratio of solute to water equal. To cross a cell membrane into a cell, water travels from the area around the cell into the cell, which has a higher solute concentration than the area around the cell. (Boyles, R., & Areda, D. 2017).

In addition to solute concentration, pressure influences the movement of water into and out of plant cells. If a plant cell is placed in an environment with a lower solute amount than the cell(hypotonic), water will flood the cell and the cell wall will exert an equal amount of pressure on the cell's contents. If there is a higher amount of

Membrane Permeability Lab Report

Tao Wei



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