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Exercise 9

DIFFUSION AND OSMOSIS: PASSIVE MOVEMENT OF MOLECULES IN BIOLOGICAL SYSTEMS

This exercise expands the definition of diffusion to include the concept of free energy. However, many students find this concept difficult to understand. They will need some help interpreting their results in terms of free energy rather than just concentration. Also important is the concept of a "model" in biological investigation. Specifically, the dialysis bag is used as a model of a cell.

If time permits, use this exercise to discuss aspects of experimentation such as hypotheses, quantification, sources of error, design of graphs, and individual versus class results.

SUGGESTED ELEMENTS FOR AN INTRODUCTORY LECTURE

- Heat causes molecules to move randomly and drives diffusion.
- Brownian movement is the random movements of small particles caused by collisions with other small particles.
- Diffusion is the net movement of molecules from an area of high free energy to an area of low free energy.
- Free energy is the energy available to do work.
- Osmosis is the diffusion of water across a differentially permeable membrane.
- A solvent is a fluid that dissolves substances. A solute is a substance dissolved in a solution.
- A hypotonic solution has a salt concentration lower than the concentration of a comparable solution.
- A hypertonic solution has a salt concentration higher than the concentration of a comparable solution.

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Yan Bai



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