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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.

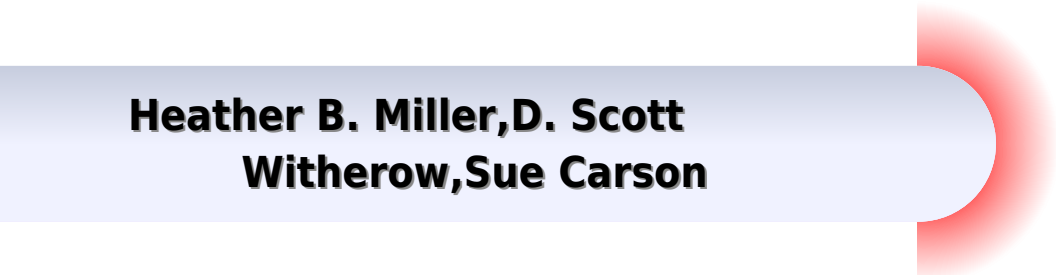
If time permits, use this exercise to discuss aspects of experimentation such as hypotheses, quantification, sources of error, design of graphs, and individual versus class results.

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.

Vodopich Biology Manual Diffusion

**Heather B. Miller,D. Scott
Witherow,Sue Carson**



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Biology Laboratory Manual Darrell S. Vodopich, Moore, 1989 Instructor's Manual for Laboratory Preparation to Accompany Biology Laboratory Manual Darrell S. Vodopich, 1989 Subject Guide to Books in Print, 2001 **The American Biology Teacher**, 1998 **Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff, R R Bowker Publishing, 1996-09 Biology Laboratory Manual Darrell S. Vodopich, Randy Moore, 1998-12 This laboratory manual is designed for an introductory majors biology course with a broad survey of basic laboratory techniques The experiments and procedures are simple safe easy to perform and especially appropriate for large classes Few experiments require a second class meeting to complete the procedure Each exercise includes many photographs traditional topics and experiments that help students learn about life Procedures within each exercise are numerous and discrete so that an exercise can be tailored to the needs of the students the style of the instructor and the facilities available *Diffusion Processes and Related Topics in Biology* Luigi M. Ricciardi, 1977 **Diffusion Processes and Related Topics in Biology** Luigi M. Ricciardi, 2013-03-13 These notes are based on a one quarter course given at the Department of Biophysics and Theoretical Biology of the University of Chicago in 1916 The course was directed to graduate students in the Division of Biological Sciences with interests in population biology and neurobiology Only a slight acquaintance with probability and differential equations is required of the reader Exercises are interwoven with the text to encourage the reader to play a more active role and thus facilitate his digestion of the material One aim of these notes is to provide a heuristic approach using as little mathematics as possible to certain aspects of the theory of stochastic processes that are being increasingly employed in some of the population biology and neurobiology literature While the subject may be classical the novelty here lies in the approach and point of view particularly in the applications such as the approach to the neuronal firing problem and its related diffusion approximations It is a pleasure to thank Professors Richard C Lewontin and Arnold J F Siegert for their interest and support and Mrs Angell Pasley for her excellent and careful typing I PRELIMINARIES 1 Terminology and Examples Consider an experiment specified by a the experiment's outcomes forming the space S by certain subsets of S called events and by the probabilities of these events **Diffusion Processes** Merkel H. Jacobs, 2012-12-06 A basic tenet of present day biophysics is that flows in biological systems are causally related to forces A large and growing fraction of membrane biophysics is devoted to an exploration of the quantitative relationship between forces and flows in order to understand both the nature of biological membranes and the processes that take place on and in these membranes This is why the discussion of the nature of diffusion is so important in any formal development of membrane biophysics This was equally true twenty years ago when tracers were just beginning to be used for the measurement of m **Diffusion Processes in Biology** Henry Clavering Tuckwell, 1973 **Diffusion Processes and Related Topics in Biology** Christopher Hookway, 1977 Plant Biology Laboratory Manual Curt M. Peterson, 1975-01-01 **Molecular Biology**

Techniques Heather B. Miller, D. Scott Witherow, Sue Carson, 2011-10-18 This manual is an indispensable tool for introducing advanced undergraduates and beginning graduate students to the techniques of recombinant DNA technology or gene cloning and expression. The techniques used in basic research and biotechnology laboratories are covered in detail. Students gain hands-on experience from start to finish in subcloning a gene into an expression vector through purification of the recombinant protein. The third edition has been completely re-written with new laboratory exercises and all new illustrations and text designed for a typical 15-week semester rather than a 4-week intensive course. The project approach to experiments was maintained; students still follow a cloning project through to completion, culminating in the purification of recombinant protein. It takes advantage of the enhanced green fluorescent protein; students can actually visualize positive clones following IPTG induction. Covers basic concepts and techniques used in molecular biology research labs. Student-tested labs proven successful in a real classroom laboratory. Exercises simulate a cloning project that would be performed in a real research lab. Project approach to experiments gives students an overview of the entire process. Prep list appendix contains necessary recipes and catalog numbers providing staff with detailed instructions. *Plant Molecular Biology — A Laboratory Manual* Melody S. Clark, 2013-11-27 The aim of this manual is to encompass a broad range of the latest plant molecular biology techniques. However, it is acknowledged that any manual will be read and hopefully used by a wide range of people with different levels of experience. Hence the remit of the manual was widened to include a full range of basic molecular techniques so that novices do not have to consult several texts to enable the execution of each major experiment. The manual is divided into three main parts. Part I: Basic Molecular Techniques. The reason behind this part is to provide a background knowledge of molecular techniques but also to reduce duplication in later chapters; this is particularly true of the methods contained in Chap. 1. All authors provided very detailed methods and often forgot that some of these would be covered earlier. A particular favourite was DNA extraction methods where everyone managed to provide a slightly different variant. My view was that it is far less confusing for the reader to be presented with one standard protocol and accompanying troubleshooting tips than to read a different version in each chapter. In this way the basic techniques are addressed more in depth and my apologies to all authors for judicious use of the delete key. RNA methodology is covered in Chapter 3. This proceeds from the fundamentals of extraction, northern blotting etc. to cDNA libraries. Diffusion Processes and Related Topics in Biology Notes Taken Luigi M. Ricciardi, Charles E. Smith, 1977 *Diffusion Processes* Merkel Henry Jacobs, 1935 *Analysis, Modeling, and Simulation of Diffusion Processes in Cell Biology*, 2006 *Diffusion and Osmosis* Donald Gordon Mackean, 1971 *The Theory of Diffusion in Cell Models and Volume Changes Analogous to Growth* Lewis G. Longworth, 1934 **Plant Biology & Plant Biology Lab Manual Pkg** ANONIMO, 2006-07-01

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