

TRANSPORT IN CELLS

How do water molecules move?

Why?

Water accounts for over 70% of the human body. If water levels are not regulated and maintained there can be disastrous consequences. Cells and tissues can swell, blood cells burst and your brain expands so much it pushes on the skull, leading to brain damage and death. So what exactly is the process that allows organisms to regulate and maintain their water content?

MODEL 1: Movement of Water – a type of diffusion.

Schematic Diagram of Transport of Water in a Sugar Solution:



Key:



Sugar molecules (solute)



Water molecules (solvent)



Selectively permeable membrane

For each question use the above diagram:

1. Complete the following table:

	Left side of membrane	Right side of membrane
Number of water molecules	24	14
Number of sugar molecules	6	15
Ratio of water to sugar	4:1	14:15

2.
 - a. What is the **solvent** in the diagram?
Water molecules
 - b. What is the **solute** in the diagram?
Sugar molecules
3. Using the terms from Question 2, define a solution (use complete sentences).

Solution is the product of the solute and the solvents



Transport In Cells Ap Bio Pogil

Katherine Brehme Warren



Transport In Cells Ap Bio Pogil:

Intracellular Transport Katherine Brehme Warren, 2014-05-12 Intracellular Transport is a collection of papers that examines the processes of and the mechanisms underlying intracellular transport One paper describes that all active transport processes in the amoeba are intracellular and depend on dynamic transformations of membrane into cytoplasm and of cytoplasm into membrane Another paper discusses the kinetics of membrane transport of which the phenomena of counterflow can become a mobile carrier system The paper notes that the specific transport properties of membranes are conferred by the proteins of the surfaces that are grouped as macromolecular complexes probably similar to those of enzymes One paper describes the concept of parametric pumping an oscillation driven separation process as a possible model for active transport in biological cells Another paper compares the fine scale diffusion effects that happen in a mixture without large scale concentration gradients and where the effect are on a large scale The homogenous kinetic law can be used in the large scale situation the law already can account for any of the fine scale diffusion effects The paper notes that without large scale concentration gradients the transport event is from a local region to a nearby reaction site only Where the effects are on a large scale the diffusion results in a gross transport of over distances larger than molecular dimensions This collection can prove useful for mathematicians cellular biologists physical chemists physiologists electron

microscopicists geneticists and engineers **Transport Organs** G. Giebisch, 2013-03-08 With contributions by numerous experts *Intracellular transport* Katherine Brehme Warren, 1969 **Transport Phenomena in Biological Systems** George A. Truskey, Fan Yuan, David F. Katz, 2004 Presenting engineering fundamentals and biological applications in a unified way this book provides learners with the skills necessary to develop and critically analyze models of biological transport and reaction processes Midwest **Transport Organs**, 1979 *Biological Transport* Halvor N. Christensen, 1962 Hormone Transport **Intracellular Transport** Katherine Brehme Warren, 1966 *Ion Transport in Plant Cells and Tissues* David A. Baker, John Lloyd Hall, 1975 Ion transport introduction and general principles Cell membranes Mitochondria Chloroplasts Algal cells Storage tissues Excised roots Long distance transport in roots Whole plants Halophytes Salt glands Stomata

Short and Long Distance Signaling Friedrich Kragler, Martin Hülskamp, 2011-12-07 The ability of plants to exchange RNA molecules and transcription factors between cells and tissues is a relatively recent discovery However all areas of research such as plant development metabolism and plant pathogen interactions now realize the importance of this phenomenon In this book experts from the field of intercellular transport deal with various aspects on intercellular transport of viruses and plant endogenous macromolecules such as transcription factors small silencing induced and micro RNAs and other RNAs and their function as signals The aim of the book is to provide the basic information on the cell to cell transport mechanism and to give an overview of the current knowledge of this relatively new field of research To quote the words of W J Lucas pioneering discoveries in this field of cell to cell and long distance signaling should certainly entice talented young scholars to join this

frontier area of plant biology He is certainly right as we got only a first glimpse on the cellular factors regulating intercellular transport and the functional diversity of the ever increasing number of proteins and RNA molecules found to move between cells *Transport and Accumulation in Biological Systems* Eric James Harris,1972 **Water Transport in Cells and Tissues** Charles Randall House,1974 Cell Biology of Intracellular Transport Processes Trilateral Workshop Cell Biology of Intracellular Transport Processes. 2006, Warszawa,2007 *Active Transport and Secretion* Society for Experimental Biology (Great Britain),1954 **Intestinal Transport** M. Gilles-Baillien,R. Gilles,1983-07 Fourth Conference of the European Society for Comparative Physiology and Biochemistry Bielefeld September 8 11 1982 **Transport at the Cellular Level** Society for Experimental Biology (Great Britain),1974

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