

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 Pogil Packet

Emilie Sanchez



Transport In Cells Pogil Packet:

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

microscopists geneticists and engineers **Intracellular transport** Katherine Brehme Warren, 1969 **Intracellular Transport** Katherine Brehme Warren, 1966 **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 **Cell Biology of Intracellular Transport Processes** Trilateral Workshop Cell Biology of Intracellular Transport Processes. 2006, Warszawa, 2007 **Transport in Cells and Epithelia** European Society for Comparative Physiology and Biochemistry. Conference, 1988 *Transport in Cells and Epithelia* European Society for Comparative Physiology and Biochemistry, 1988 **Transport and Accumulation in Biological Systems**, 1950 Transport Cellular Level Society for Experimental Biology (Great Britain), 1974-10-31 **Molecular Cell Biology and Physiology of Solute Transport** Bernard C. Rossier, Robert J. Alpern, Christopher S. Wilcox, Hugh R. Brady, 1998 *Drug Transport in Cell Preparations with Diffusional Dosing and Temporal Ratiometry* Prasad Oruganti, 2010 The introduction of specific molecules into single cells is a widely used approach to probe cellular mechanisms For example to better understand the complex phenomenon of cancer drug resistance due to sequestration binding and efflux drug molecules are introduced into cancer cells To probe cell cell communication tracer molecules are delivered into connected cells and their junctional permeabilities are estimated Existing methods for delivering molecules into cells include the injection of discrete boluses of material using mechanical or electro mechanical principles and continuous perfusion from a patch pipette in the whole cell configuration

However with these methods delivery cannot be quantified or can introduce stress to the cells due to volume addition or can cause excessive washout of cytosolic content In this work we report on the use of a diffusional microburet that is a micropipette with a diffusion port at its tip to deliver molecules into an impaled target cell quantifiably and with reduced washout of intracellular constituents A new ratiometry technique called temporal ratiometry has also been developed in this work to provide dynamic time resolved concentration maps of the delivered molecules within the cell These methods have been used to determine junctional permeabilities between connected A7r5 cells over a 30 min time frame The DMB has also been used to dose the anticancer drug doxorubicin into the human breast cancer cell line MCF 7 and the rat epithelial cell line NRKE to titrate intracellular drug binding sites Doxorubicin was found to accumulate in the nucleus and slow propagation at binding sites at the rate of 2 0 0 8 micrometers min n 4 cells were observed for the first time The methods presented in this work can make new types of experiment such as continuous and quantitative titrations of binding sites sequestration processes and efflux pathways on single cells feasible As an offshoot of diffusive dosing we also report on the development of a delivery device that uses hydrodynamic resistance in the path of flow to effect very slow deliveries in the order of nL s to make ultra low concentration solutions in a single step

Stochastic Transport in Complex

Environments Robin Jose,2020

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