

Chapter 3.4 - Membrane Structure and Function

How do substances move in and out of cells?

Why?

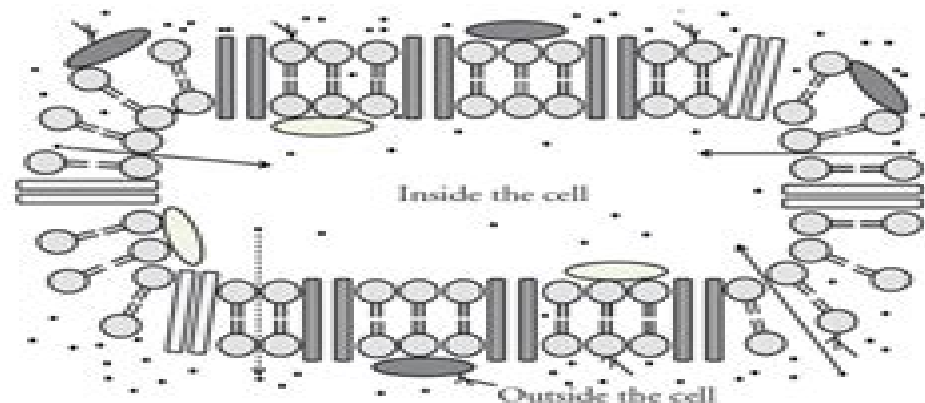
An advertisement for sports drinks, such as Gatorade, PowerAde, and Vitaminwater, etc. seem to be everywhere. All of these drinks are supposed to help your body recover and replenish lost electrolytes, fluids, and vitamins after exercise. But how do the essential molecules contained in these drinks get into your cells quickly to help you recover after exercise?

Model 1 – Simple Diffusion



1. How many different types of molecules are shown in Model 1? **Two**
2. Count and record the number of triangles and circles found on each side of the membrane.
Triangles — 14 on left, none on right; Triangles — 14 on left, none on right
3. Which shape is larger? **Triangle**
4. Describe the direction of the movement of the molecules in Model 1? **Triangle**
5. Which molecules are able to pass through the semi-permeable membrane? Justify your answer.
The dots, because they are small and can fit through the gaps, and because they are shown as equally distributed on both sides of the membrane

Model 2 – The Selectively Permeable Cell Membrane



Membrane Structure And Function Answers Key

S Ben Porath



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Cells, Teacher's Guide , **Structure and Function of Biological Membranes** Lawrence I. Rothfield,1971 Structure and Function of Biological Membranes explains the membrane phenomena at the molecular level through the use of biochemical and biophysical approaches The book is an in depth study of the structure and function of membranes

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Harper's Illustrated Biochemistry, 2009

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