

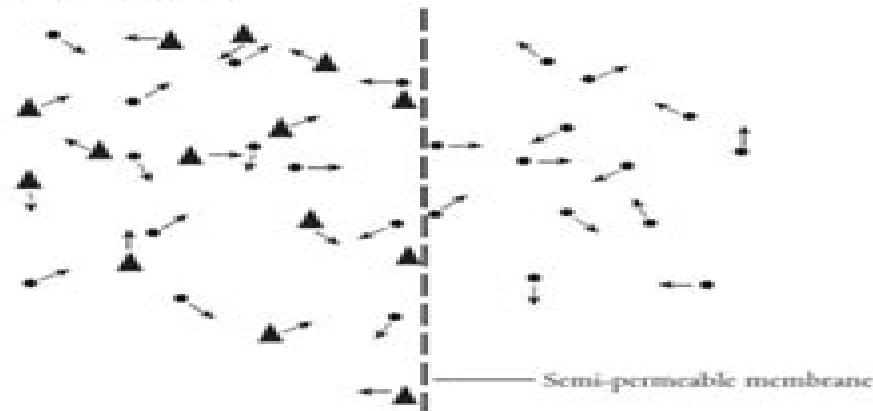
# Membrane Structure and Function

How do substances move in and out of cells?

## Why?

Advertisements 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?

2

2. Count and record the number of triangles and circles found on each side of the membrane.

14 Triangles and 18 Circles

3. Which shape is larger?

Triangle

4. Describe the direction of the movement of the molecules in Model 1?

Random

5. Which molecules are able to pass through the semi-permeable membrane? Justify your answer.

The Circles because they are on both sides

6. If you left this "system" for an extended period of time and then viewed it again, would you expect to find any changes in the concentrations of the molecules on either side of the membrane? Justify your answer.

There would probably be more circles on the right side because most of the circles on the left are headed in that direction. Some of the Circles might end up on the left side though due to the direction that there pointing in. The triangles would end up in different places but would still be on the left side on the membrane.



# Membrane Structure And Function The Pogil Project

**Ying Liu**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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