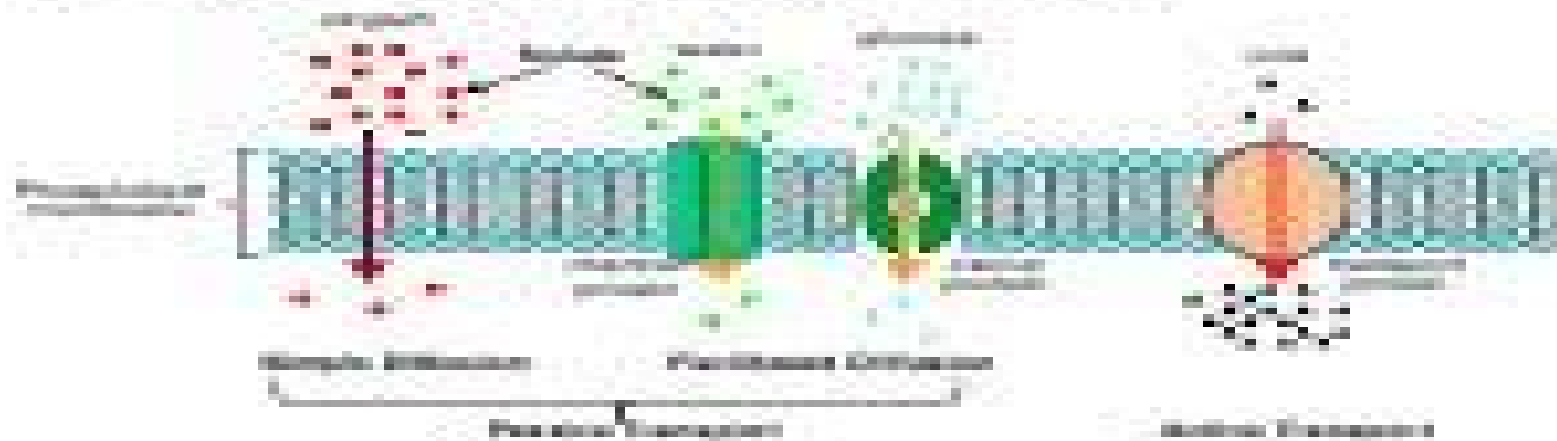


## Membrane Transport

### Model 1: Active versus Passive Transport

Most cells are solutions of water and dissolved solutes (ions, glucose, amino acids, etc.). The probability of solutes in a solution permeating a lipid bilayer membrane through or across the lipid bilayer is very low. The probability of solutes crossing through the membrane is greatly increased by the presence of a transport protein. Model 1 compares two types of transport mechanisms responsible for moving solutes across the cell membrane.



### Questions:

- Can the model for active transport permeate solutes across the membrane from a high solute concentration (extracellular space) to a low solute concentration?
- Explain why transport from outside to inside is opposite to the concentration gradient? (Is high to low, low to high? **Concentration opposes movement down?** but solute **movement and action** are the same as concentration? **These processes move solutes in high to concentration, still, process.**)
  - Importantly, transport into the solution moves along the concentration gradient?
    - Passive transport moving solutes from high to low concentration**
  - Importantly, transport from the solution moves along the concentration gradient?
    - Active transport moving solutes from low to high concentration**

<https://www.khanacademy/a/biology/membrane-transport/a/biology/membrane-transport/v/a/biology/membrane-transport>

# Membrane Transport Pogil Answers

**Marcel A. Müller**



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