

A model of cell membrane structure. Note the two layers of phospholipids (called a phospholipids bilayer), with the distinctive head-and- tail shape of the phospholipid molecules. Inside the cell, parts of the cell's "skeleton" (called the cytoskeleton) support the membrane.

Membrane Transport Mechanism	Characteristics
diffusion	follows concentration gradient; no energy from the cell is
	required
osmosis	follows concentration gradient; no energy from the cell is
	required
facilitated diffusion	follows concentration gradient, assisted by channel proteins
	or carrier proteins; no energy from the cell is required
active transport	moves against concentration gradient, assisted by channel or
	carrier proteins and with the input of energy (usually from
	ATP molecules)
endocytosis (may be pinocytosis,	membrane engulfs a substance and draws it into the cell in
phagocytosis, and receptor-assisted	membrane-bounded vesicle
endocytosis)	
exocytosis	membrane-bounded vesicle fuses with cell membrane,
	releasing the cell's contents outside of the cell

	Mechanisms fo	or the Movement of	of Substances	across the	Cell Membrane
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