Cell Transport Notes

Cell Membrane

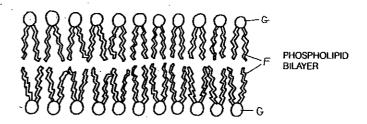
Function:

Structure:

Phospholipids:

Proteins:

PHOSPHOLIPID*
NONPOLAR (HYDROPHOBIC)
PORTION*
POLAR (HYDROPHILIC)
PORTION*

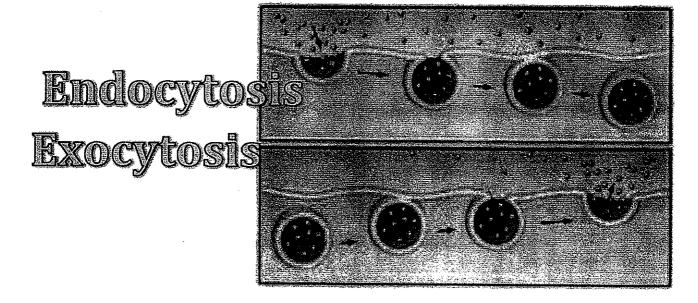


Types of Transport

Passive:

Active:

Addive Transport->veside transport

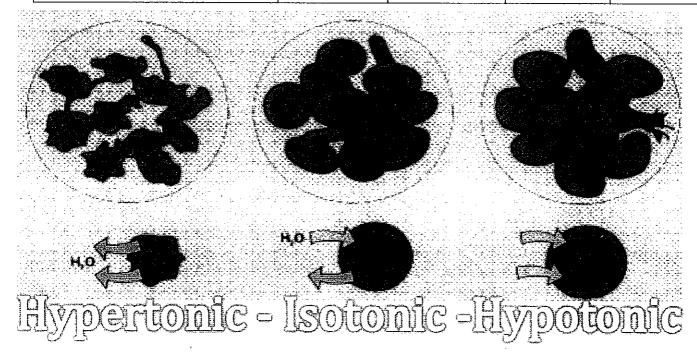


Passive Transport > osmosis

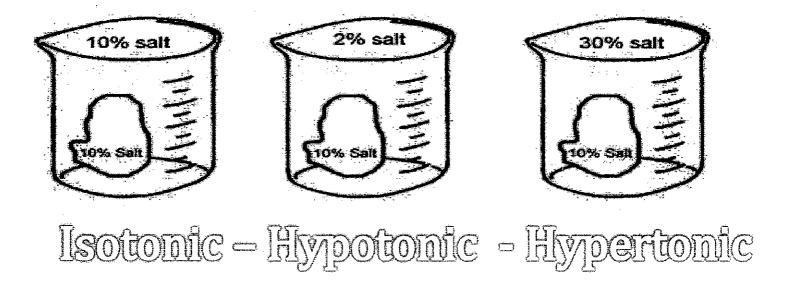
Cell in its environment

Three types of solutions cells can be in based on the concentration of dissolved molecules (solute) in the water (solvent) of the cells environment. Each situation causes a different flow direction of free water through the cell membrane (osmosis). The greater the difference in concentration (inside/outside of cell) the greater the flow rate/pressure. Complete from Page 77 in Holt Biology Textbook.

Type of solution (outside of cell)	Fluid outside of cell has	Water diffuses	Picture	Effect on cell	
Hypertonic					
Hypotonic					
Isotonic	· · · · · · · · · · · · · · · · · · ·				

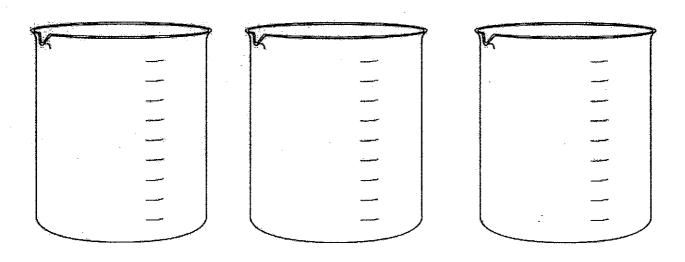


Draw arrows below to indicate which direction the water will flow.



EGG Membrane obsevations

Draw and describe the effect on each egg. Label as isotonic, hypertonic, or hypotonic. Be sure to indicate what molecule was in the water if any. Use arrows to show the direction of flow of water.



CK-12Chapter 3 Section3 - pg. 144 Title of chapter or section

Objectives:	·
Describe	
Explain	
Outline	
·	
Transport Across Mem	branes
Passive Transport	
Simple Diffusion	
Osmosis	
Facilitated Diffusion	
	1

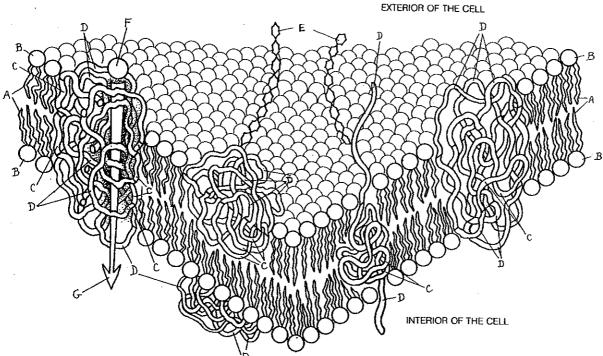
Active Transport					
					
			 		
					,
Sodium-Potasium Pump					
	. '				
		· · · · · · · · · · · · · · · · · · ·			
		1.02 12			
		· · · · · · · · · · · · · · · · · · ·			
Vesicle Transport			· · · · · · · · · · · · · · · · · · ·		

Homeostasis and Cell Function

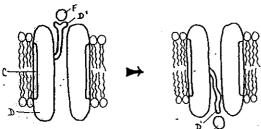
THE FLUID MOSAIC MODEL.

PHOSPHOLIPID BILAYER. NONPOLAR (HYDROPHOBIC) PORTION POLAR (HYDROPHILIC) PORTION.

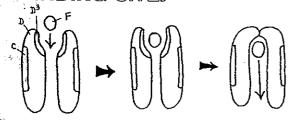
PROTEIN MOLECULE. HYDROPHOBIC PORTION. HYDROPHILIC PORTION. GLYCOCALYX. CARBOHYDRATE: ION/SMALL POLAR MOLECULE, DIFFUSION_G



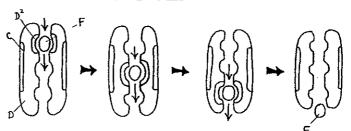
THE MOVABLE ARM. MOVABLE ARMO



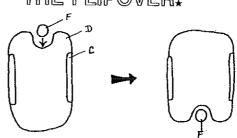
THE TRAP. BINDING SITE.



SEQUENTIAL BINDING SITES. BINDING SITE

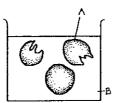


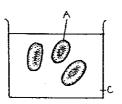
THE FLIPOVER.

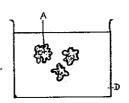


OSMOSIS.

ERYTHROCYTE PURE WATER 0.85% SALT SOLUTION. 2% SALT SOLUTION.

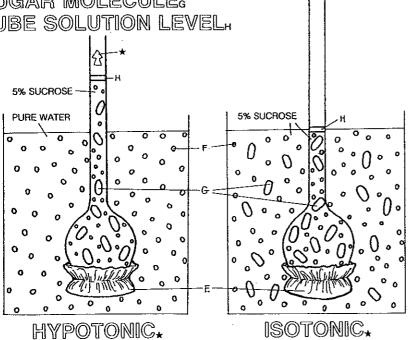


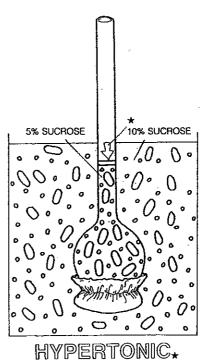




· OSMOMETER. SELECTIVELY PERMEABLE MEMBRANE

WATER MOLECULE SUGAR MOLECULE. TUBE SOLUTION LEVEL,





WILTING PLANT CELL. CELL WALL

AIR SPACEL

SHRUNKEN VACUOLE

NUCLEUS

CHLOROPLAST. HYALOPLASM,

CONTRACTILE VACUOLE,

AMOEBA*

WATER,

