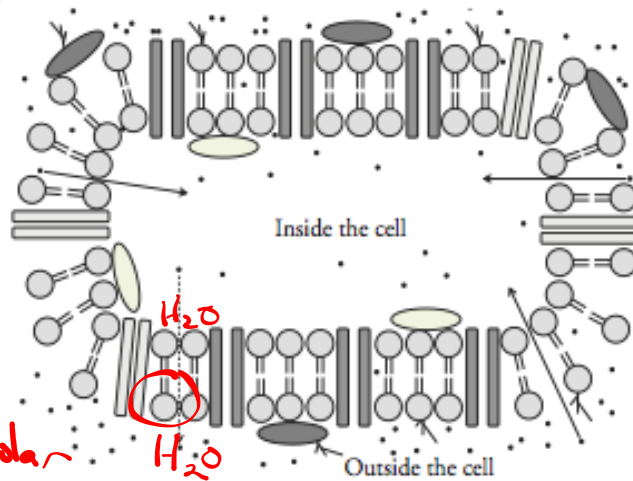
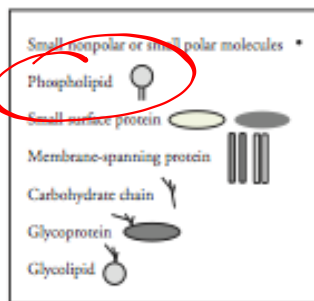


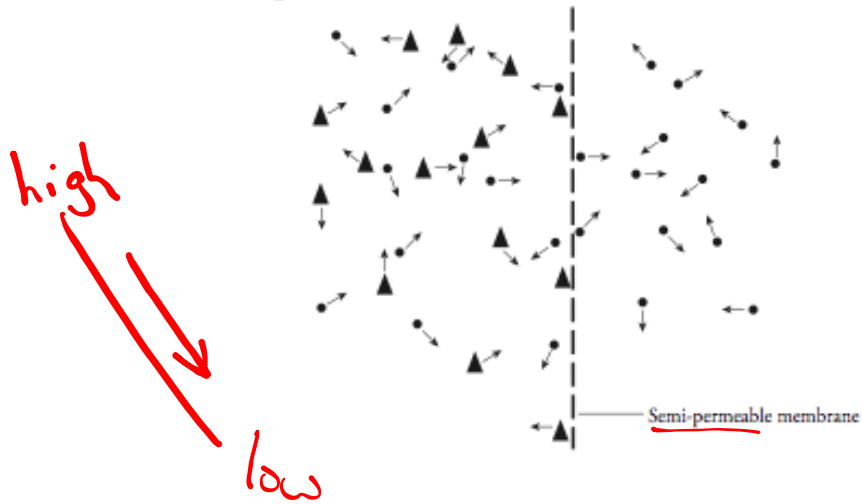
### Model 2 – The Selectively Permeable Cell Membrane



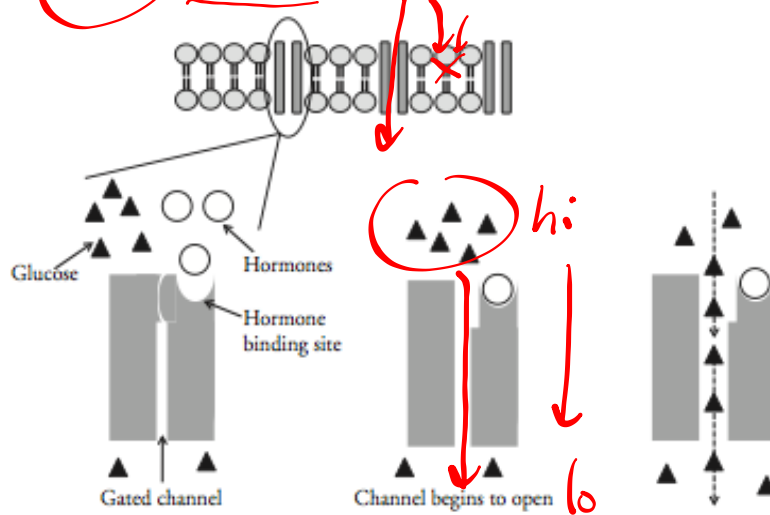
Amphipathic

○ ← polar  
|| ← non-polar - water doesn't dissolve

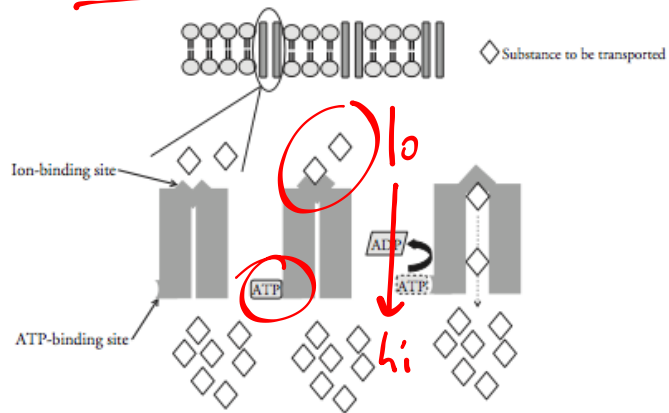
Model 1 – Simple Diffusion



Model 3 - Facilitated Diffusion



Model 4 - Active Transport



$h_i$   
 $l_o$

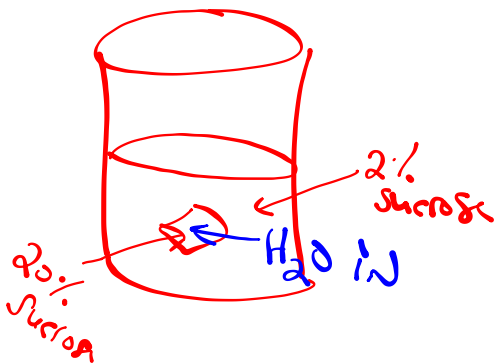
$h_o$   
 $h_i$

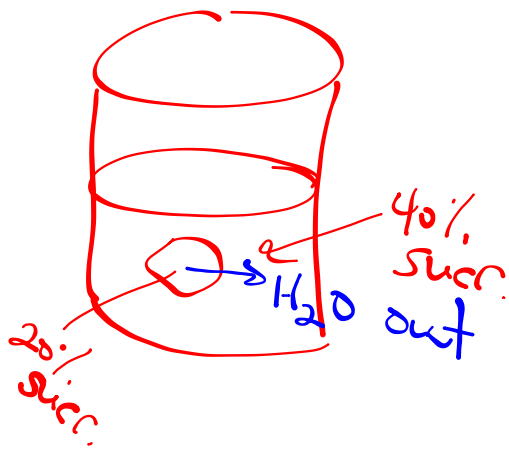
Osmosis: diffusion of H<sub>2</sub>O

across a semi-permeable membrane

Hypotonic sol.

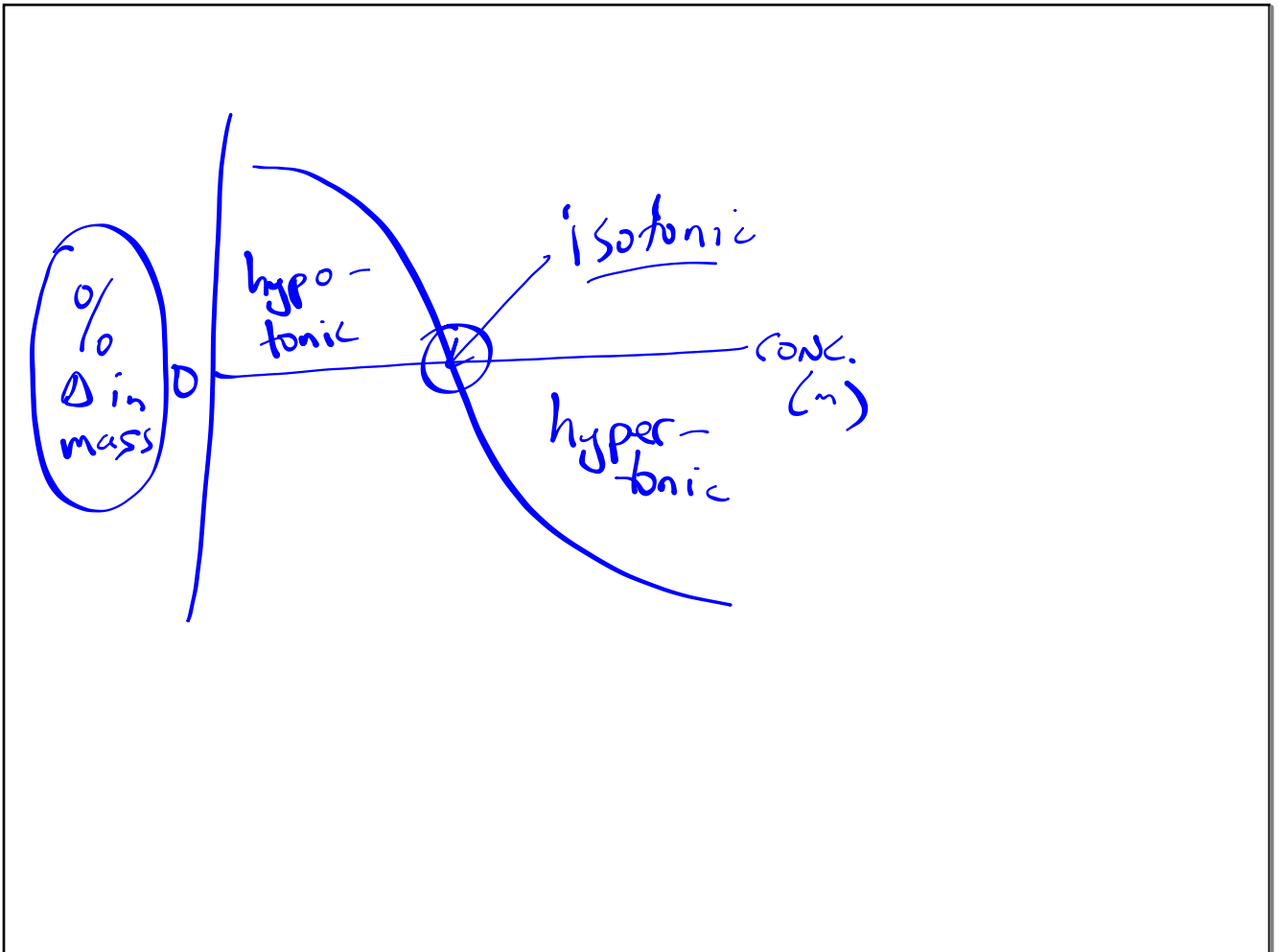
cell incr. mass



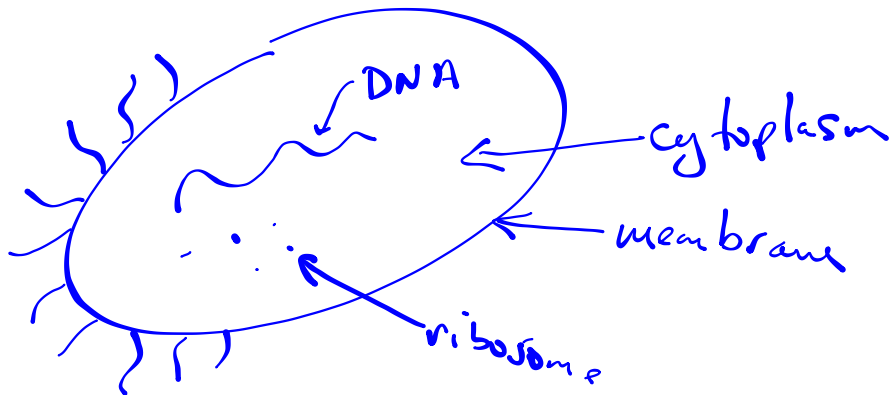


HyperTonic sol.

cell mass decr.



PROKARYOTE = BACTERIA





Eukaryote

