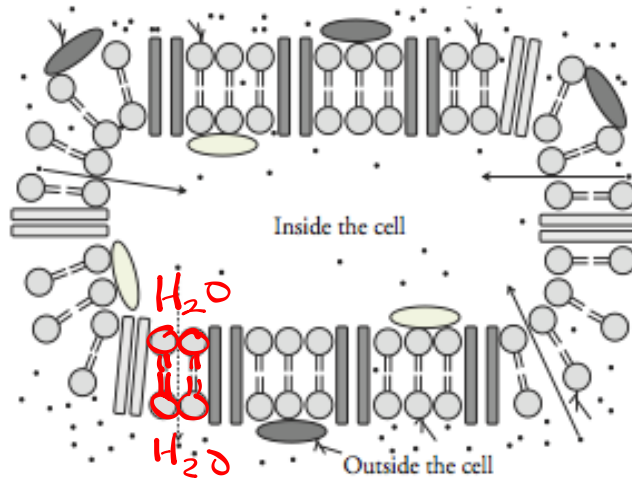
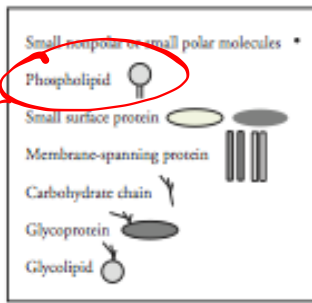


### Model 2 – The Selectively Permeable Cell Membrane

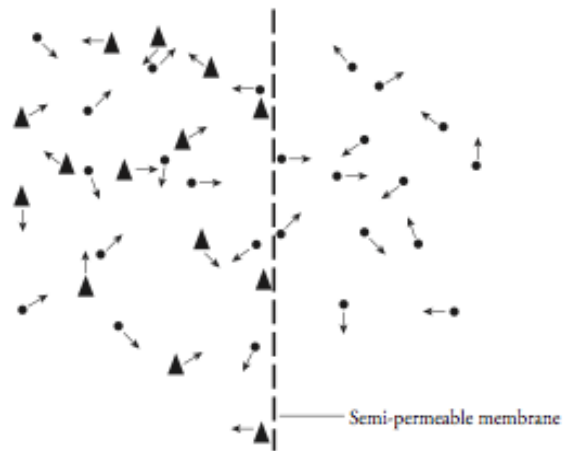


amphipathic

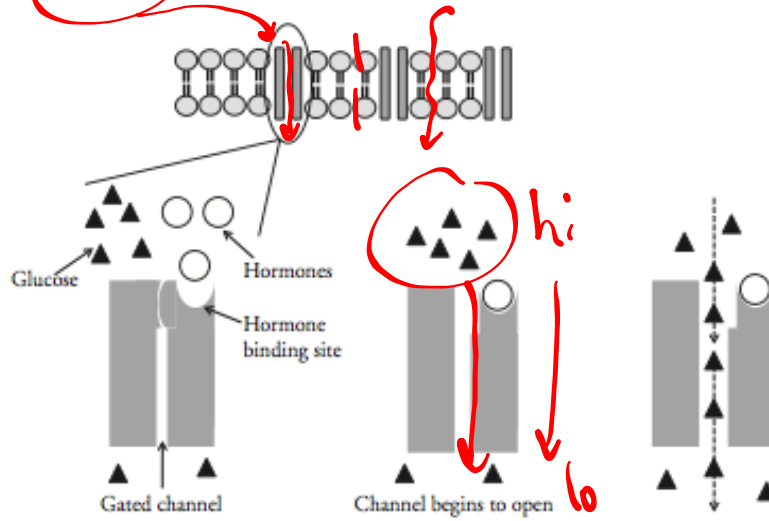
← polar

← non-polar - not dissolved in water

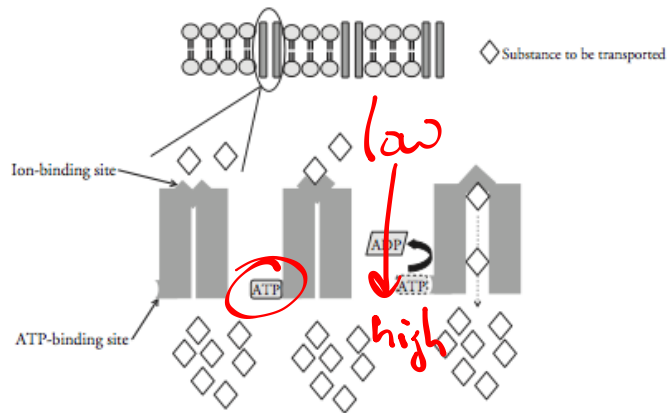
**Model 1 – Simple Diffusion**



Model 3 - Facilitated Diffusion

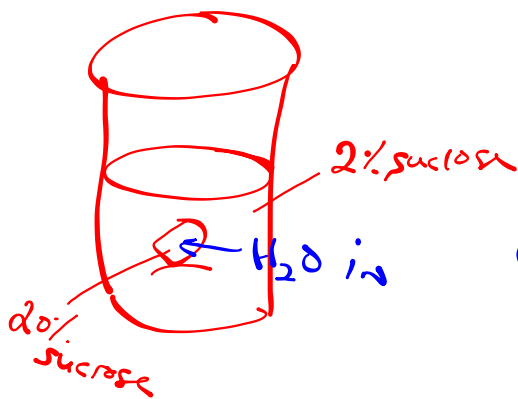


**Model 4 – Active Transport**

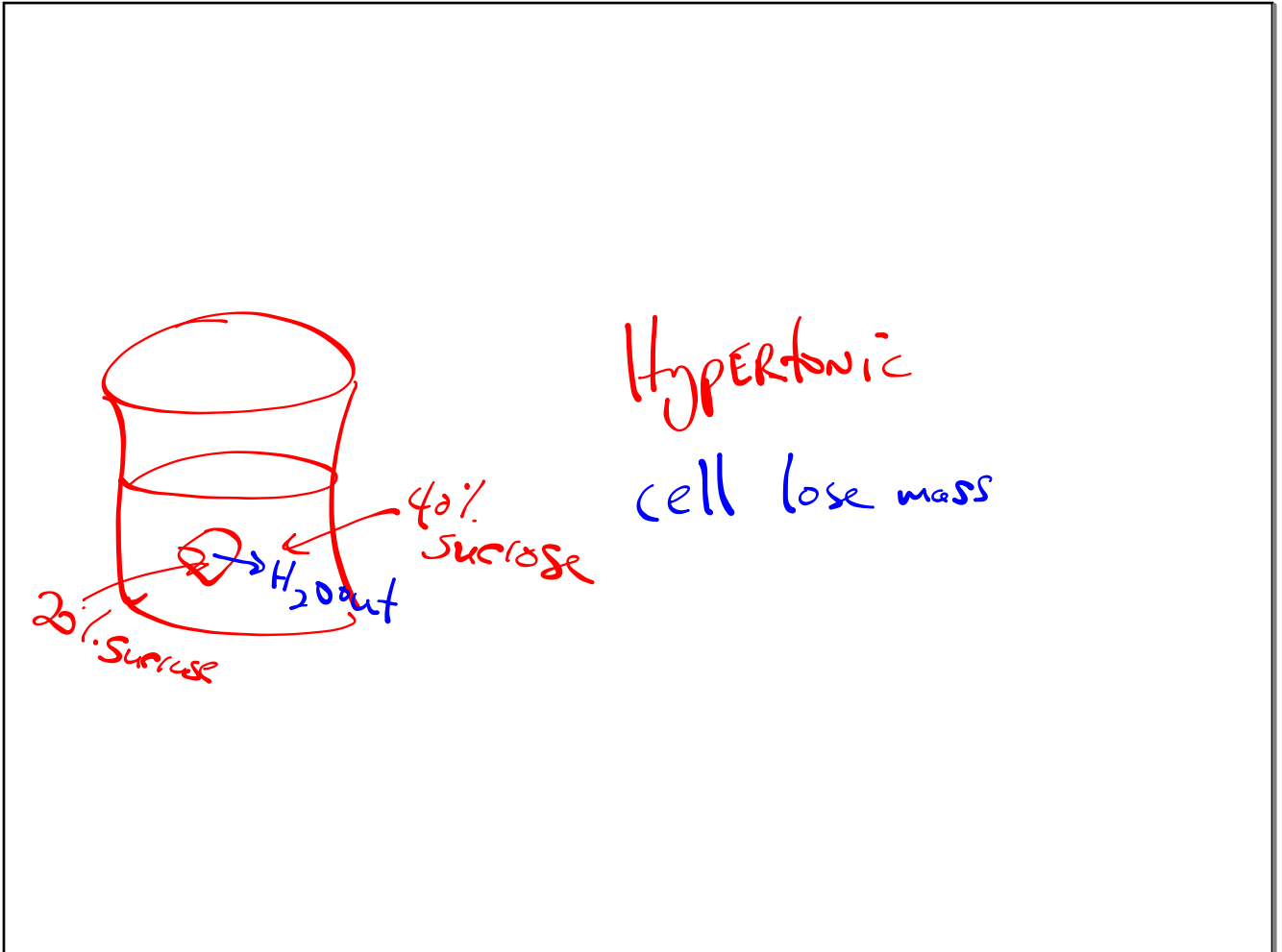


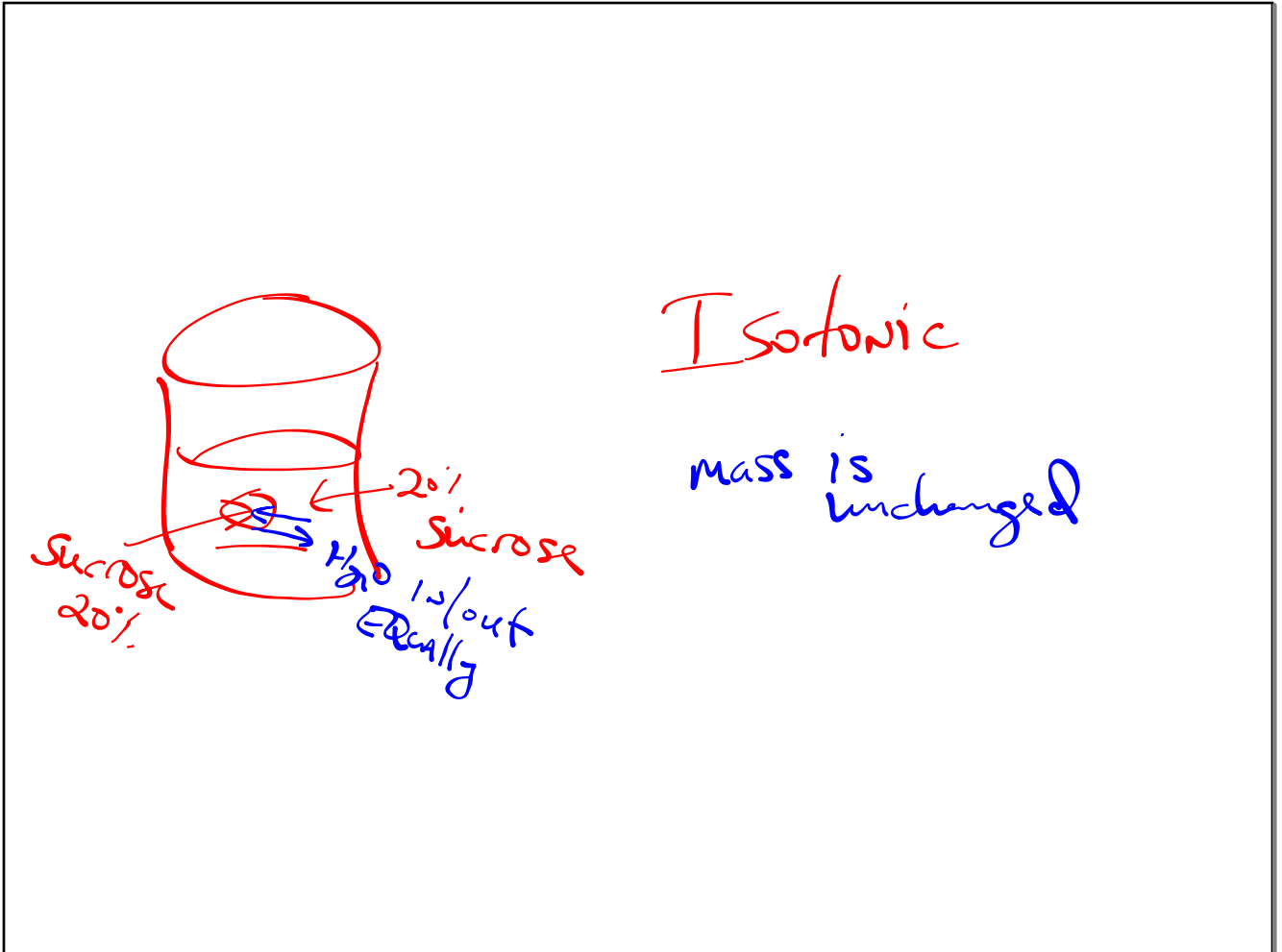
Osmosis:

Diffusion of  $H_2O$   
thru semi-permeable  
membrane



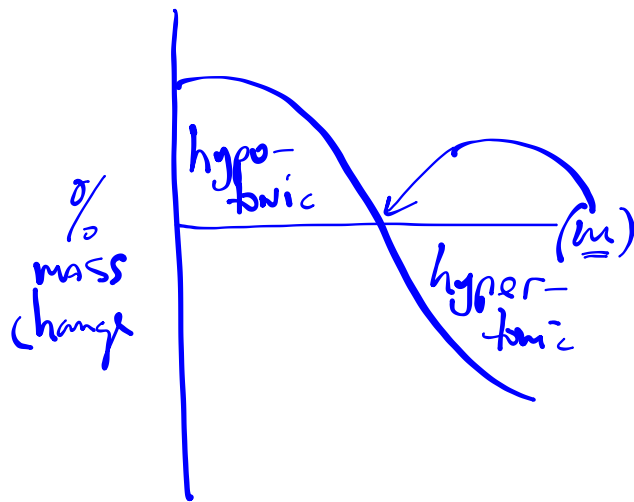
Hypotonic  
cells gain mass





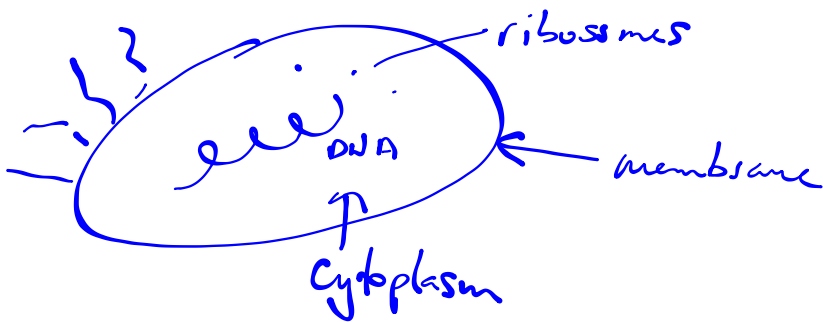
Isotonic

mass is unchanged

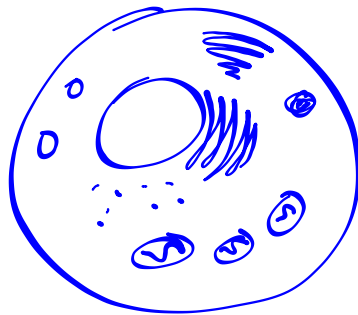




prokaryotes = bacteria



Eukaryotes -



proTEINS

