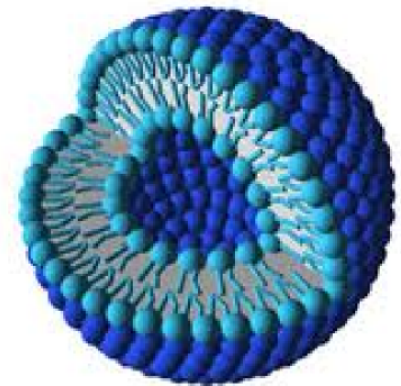
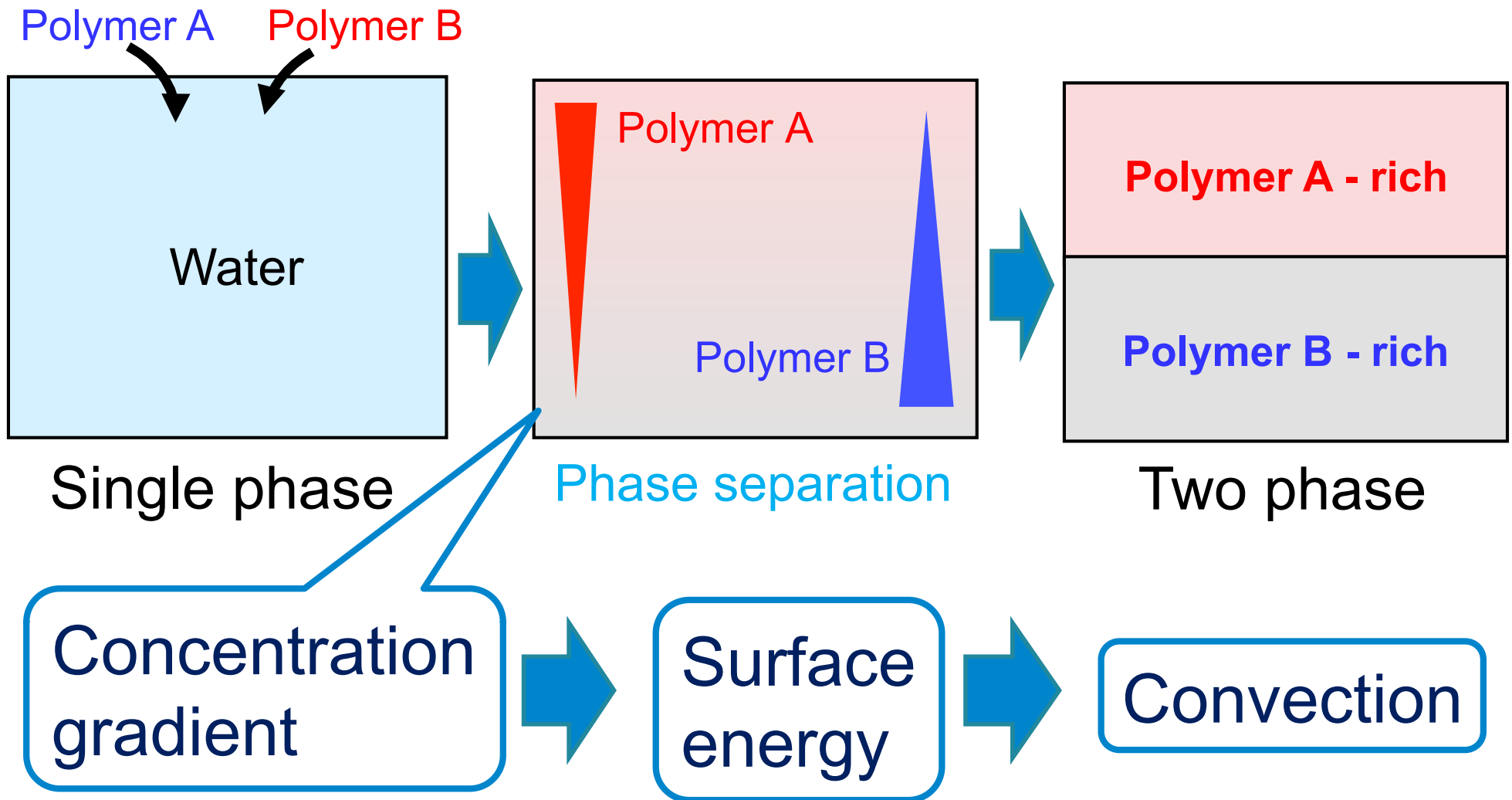


Research on spontaneous movement of molecular assembly



Introduction of Korteweg force

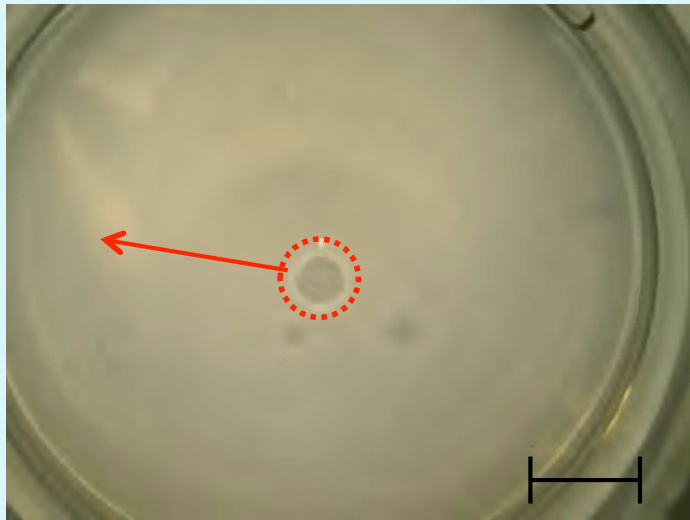
Mutual miscible liquid system



Korteweg Force

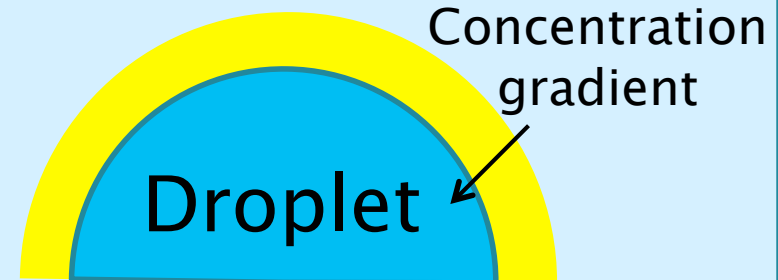
Applying Korteweg force to driving force

Droplet movement



0.5 mm

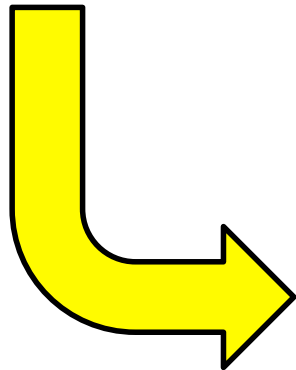
Continuous phase



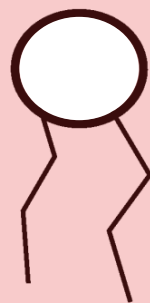
Droplet

Concentration
gradient

Surface Energy

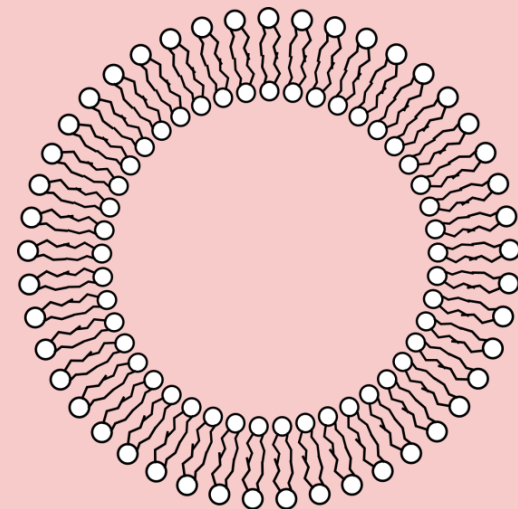


Applying to vesicles



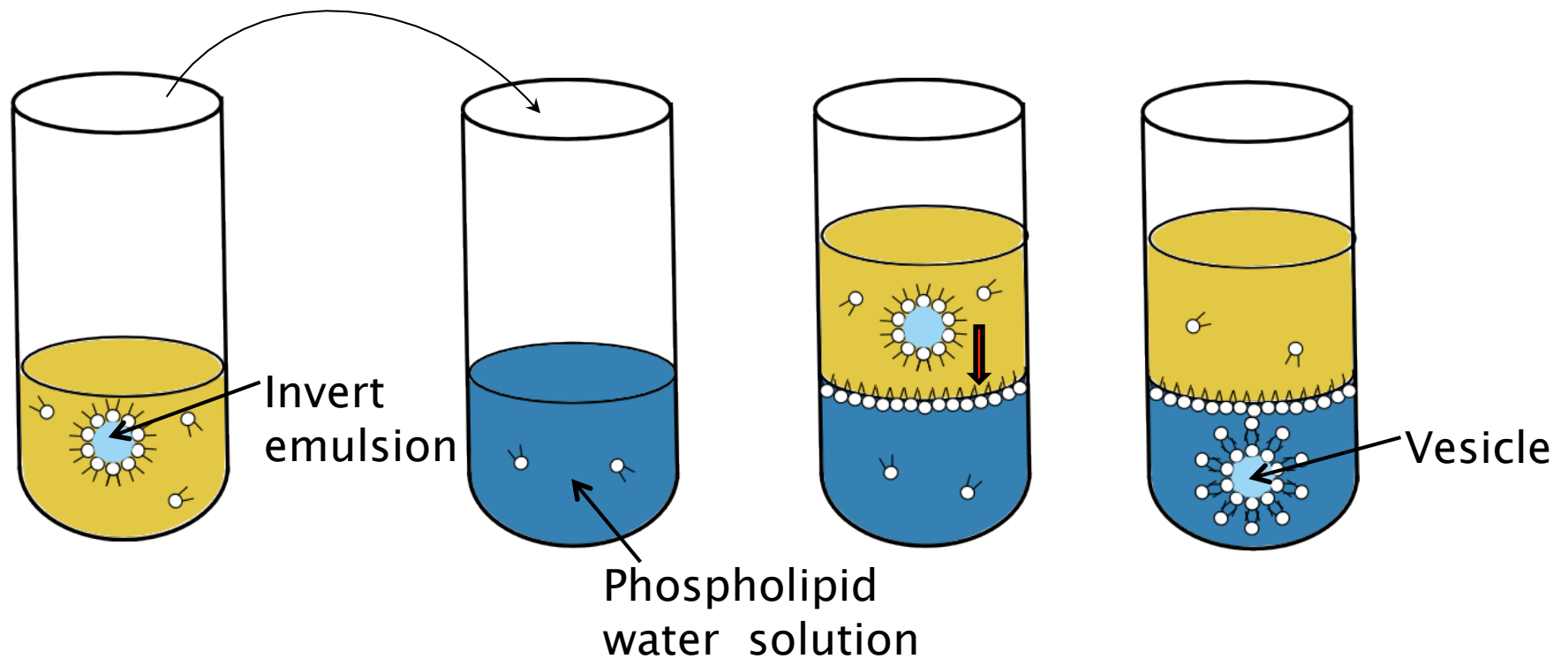
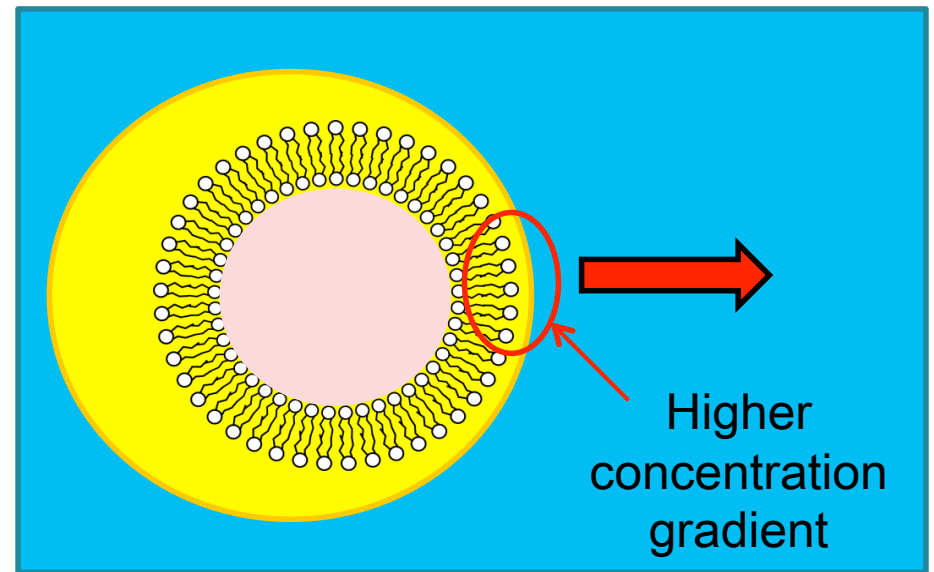
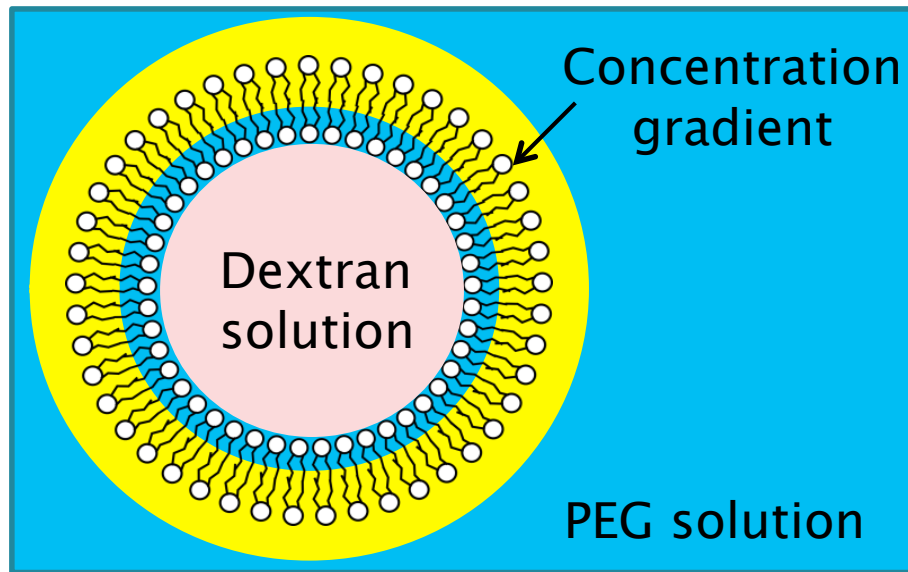
Hydrophilic
(Dissolved by water)

Hydrophobic
(Dissolved by oil)

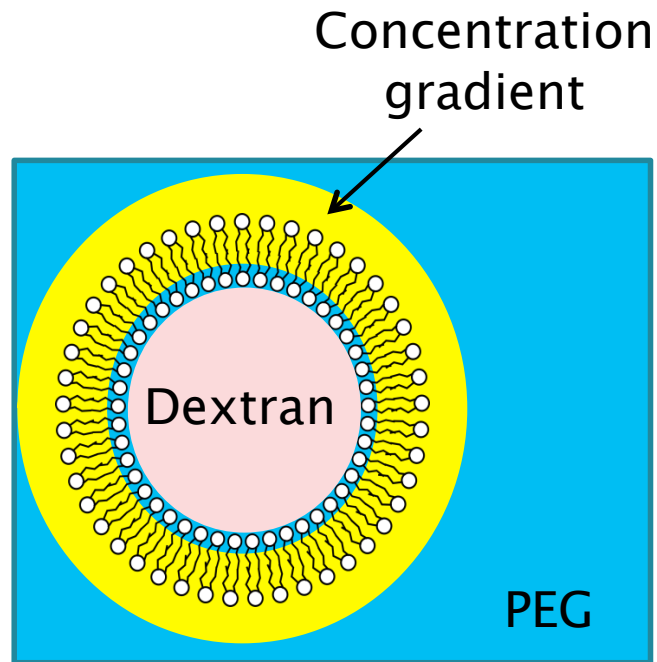


Vesicle

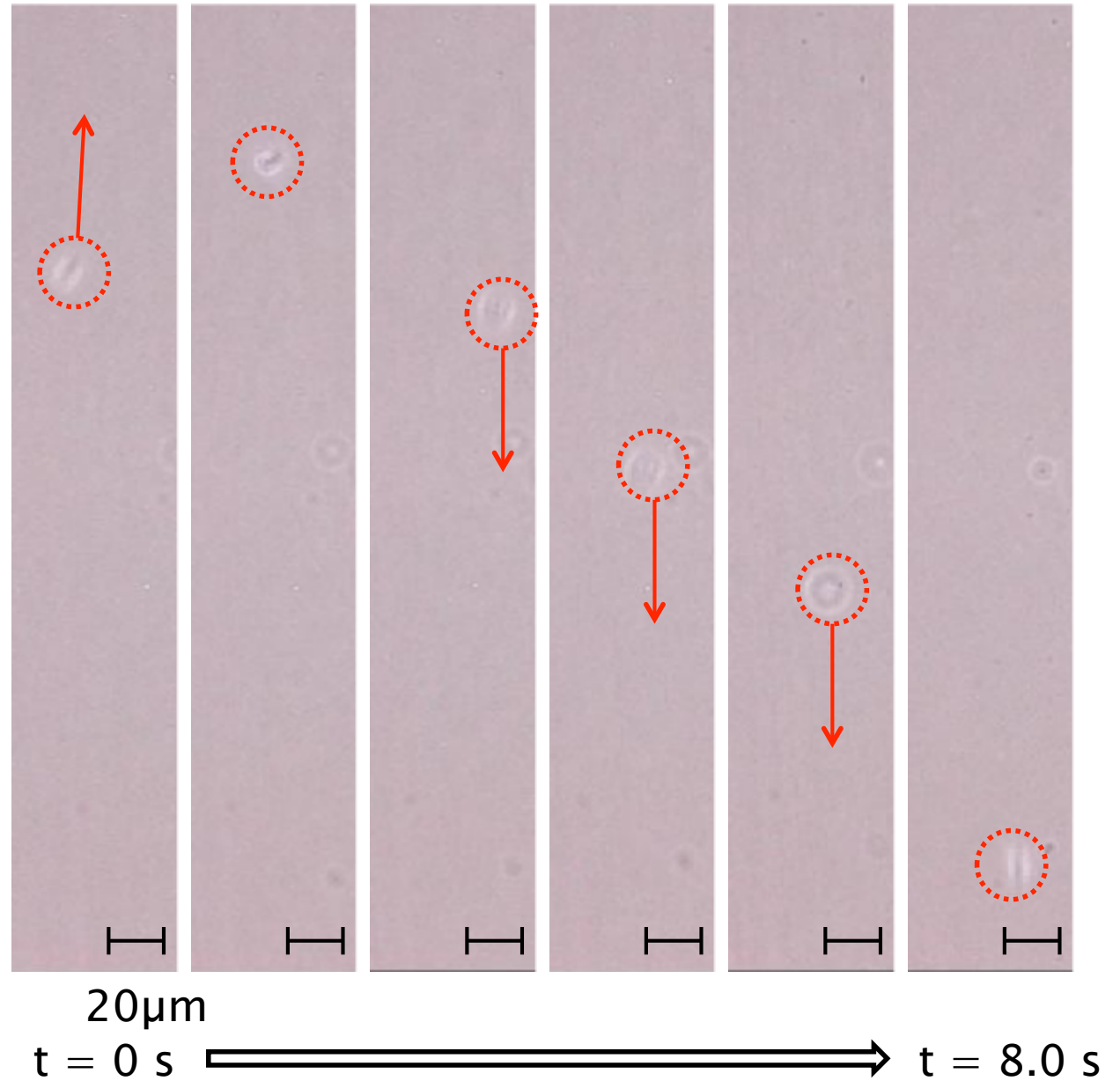
Method to make vesicles



Snapshots of moving vesicles

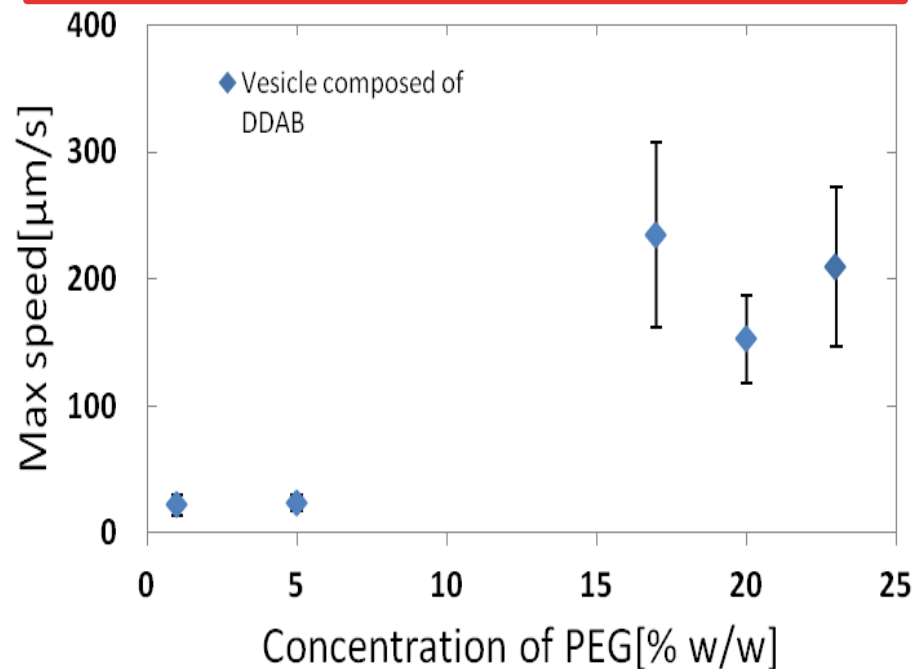
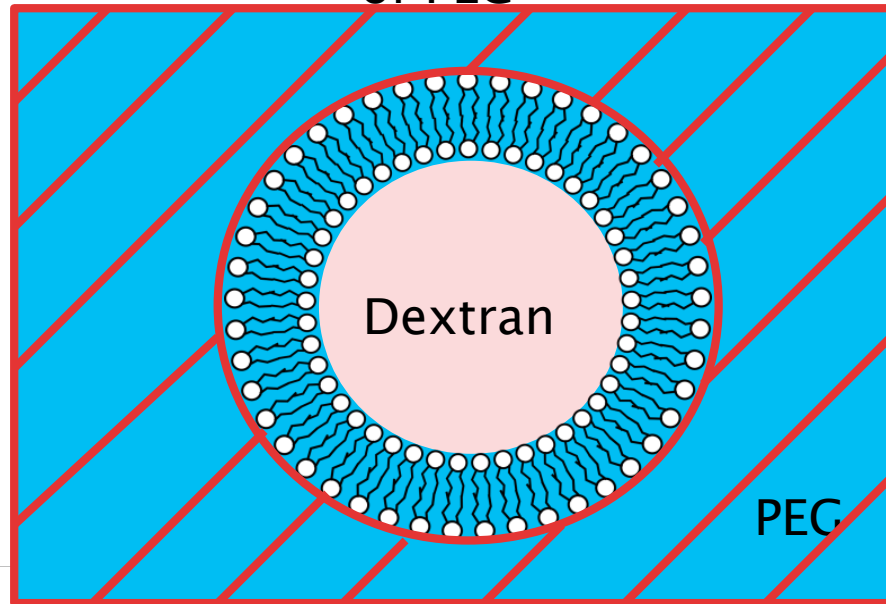


Movement of vesicle



Behaviors of moving vesicles

Concentration
of PEG



Length of carbon chain within
amphipathic molecules

