

# insane in the membrane

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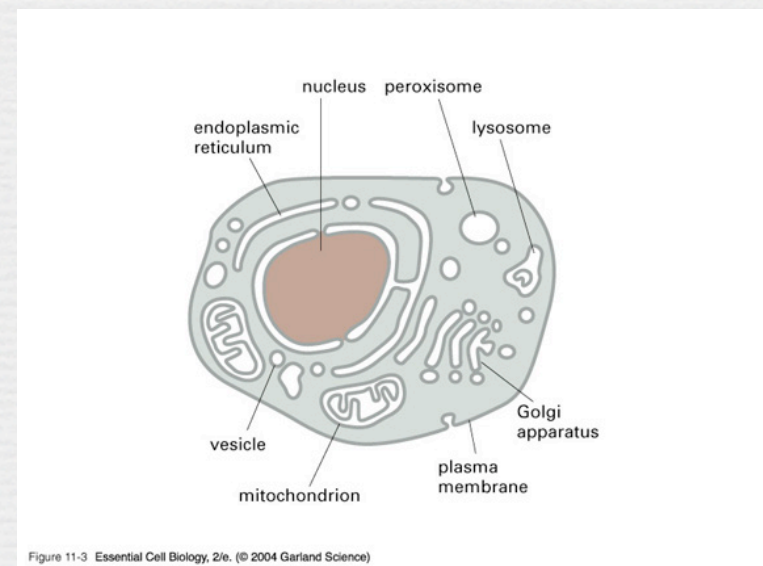
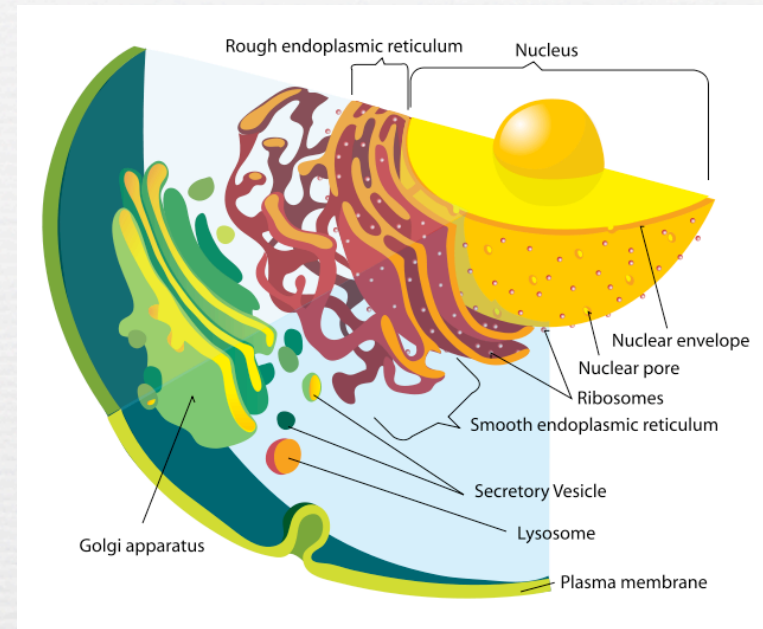
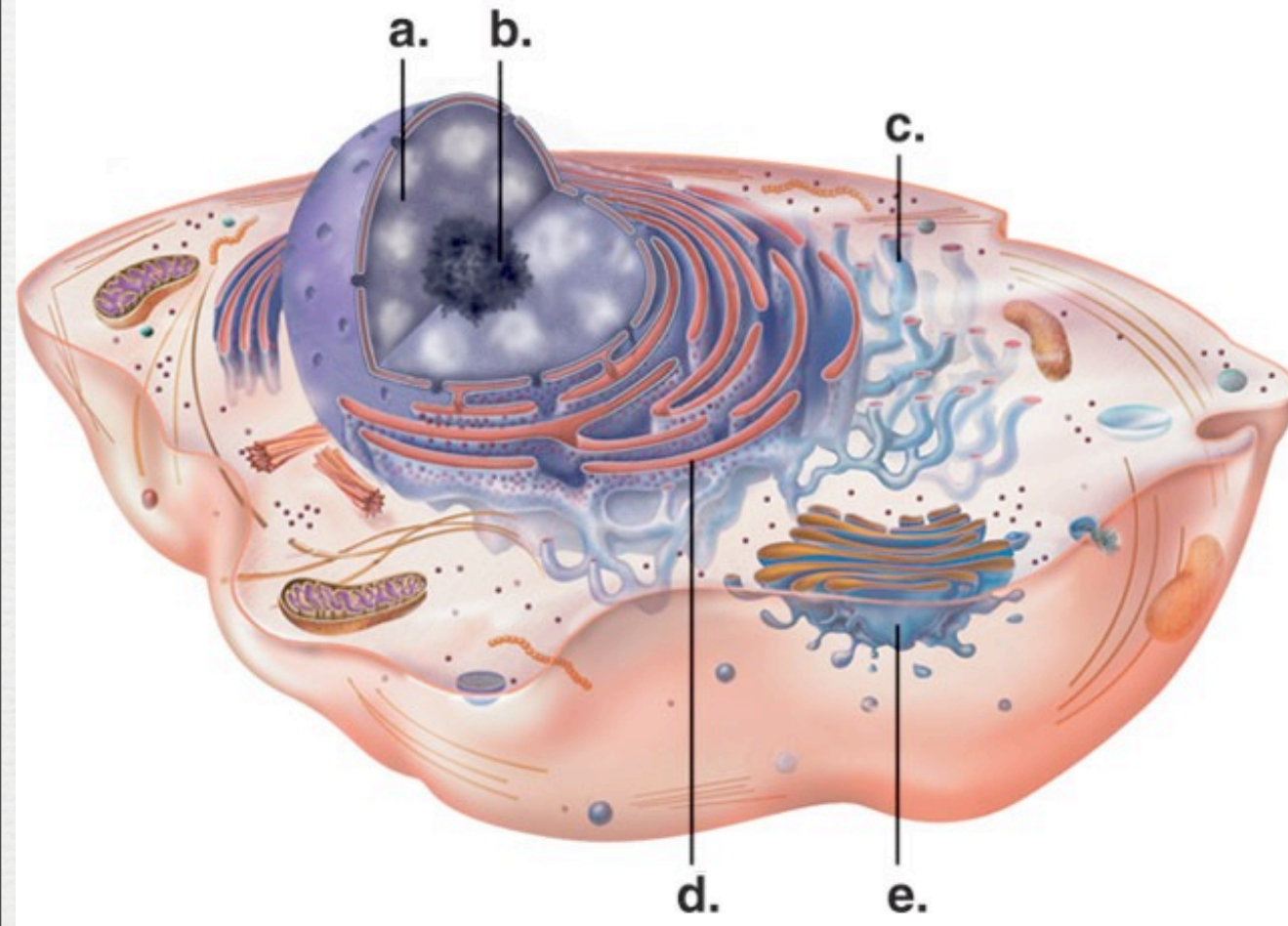


Figure 11-3 Essential Cell Biology, 2/e. © 2004 Garland Science

# cells and their membranes

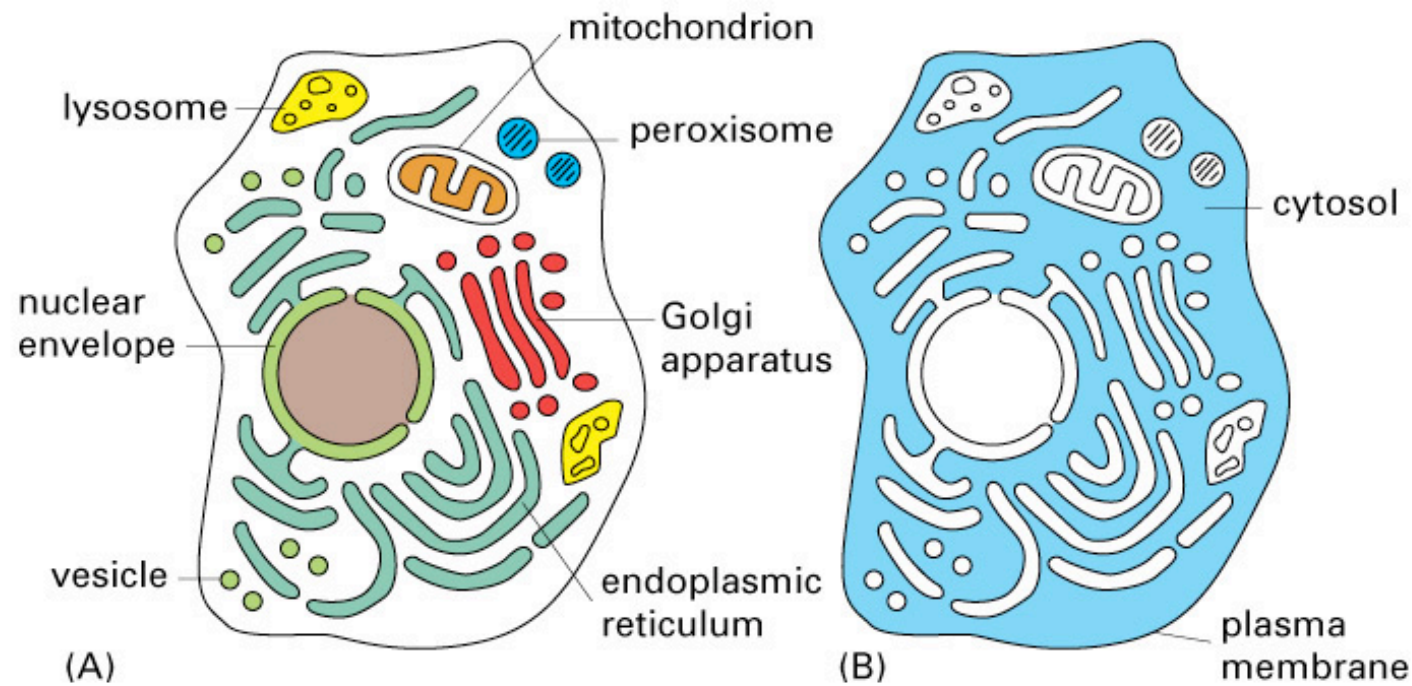
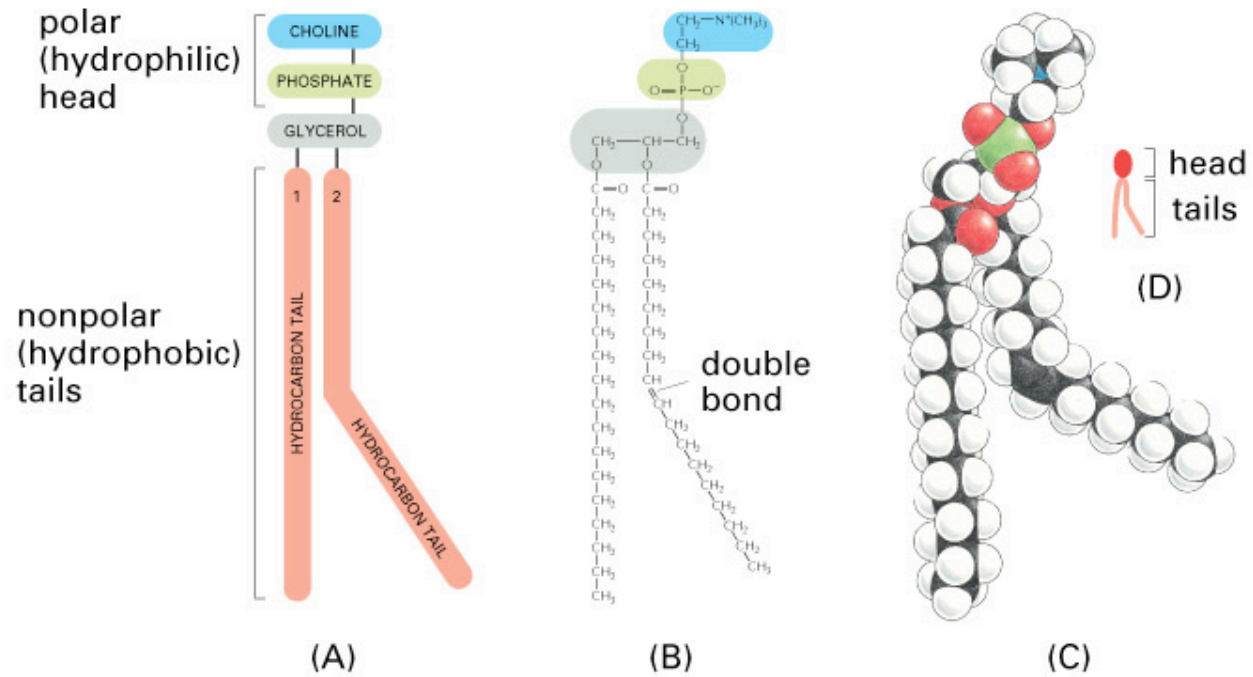


Figure 1-24 Essential Cell Biology, 2/e. (© 2004 Garland Science)



# lipids





# lipid bilayers

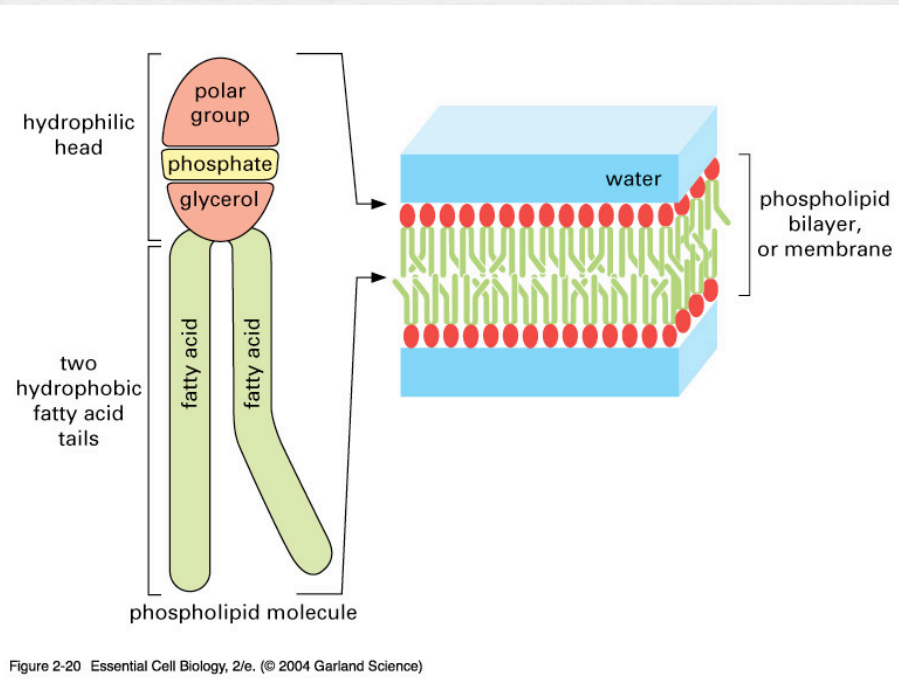
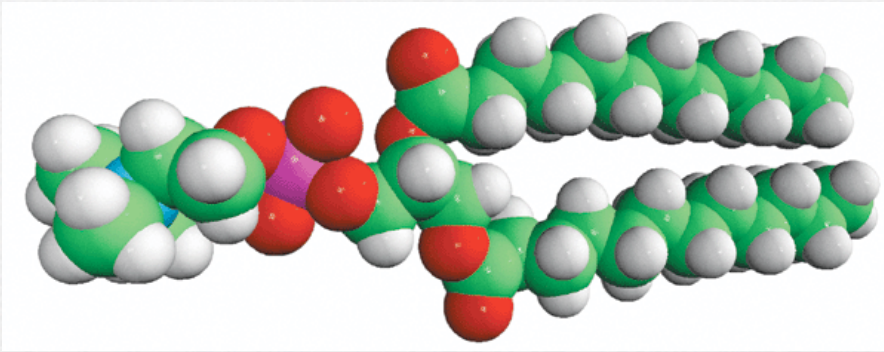
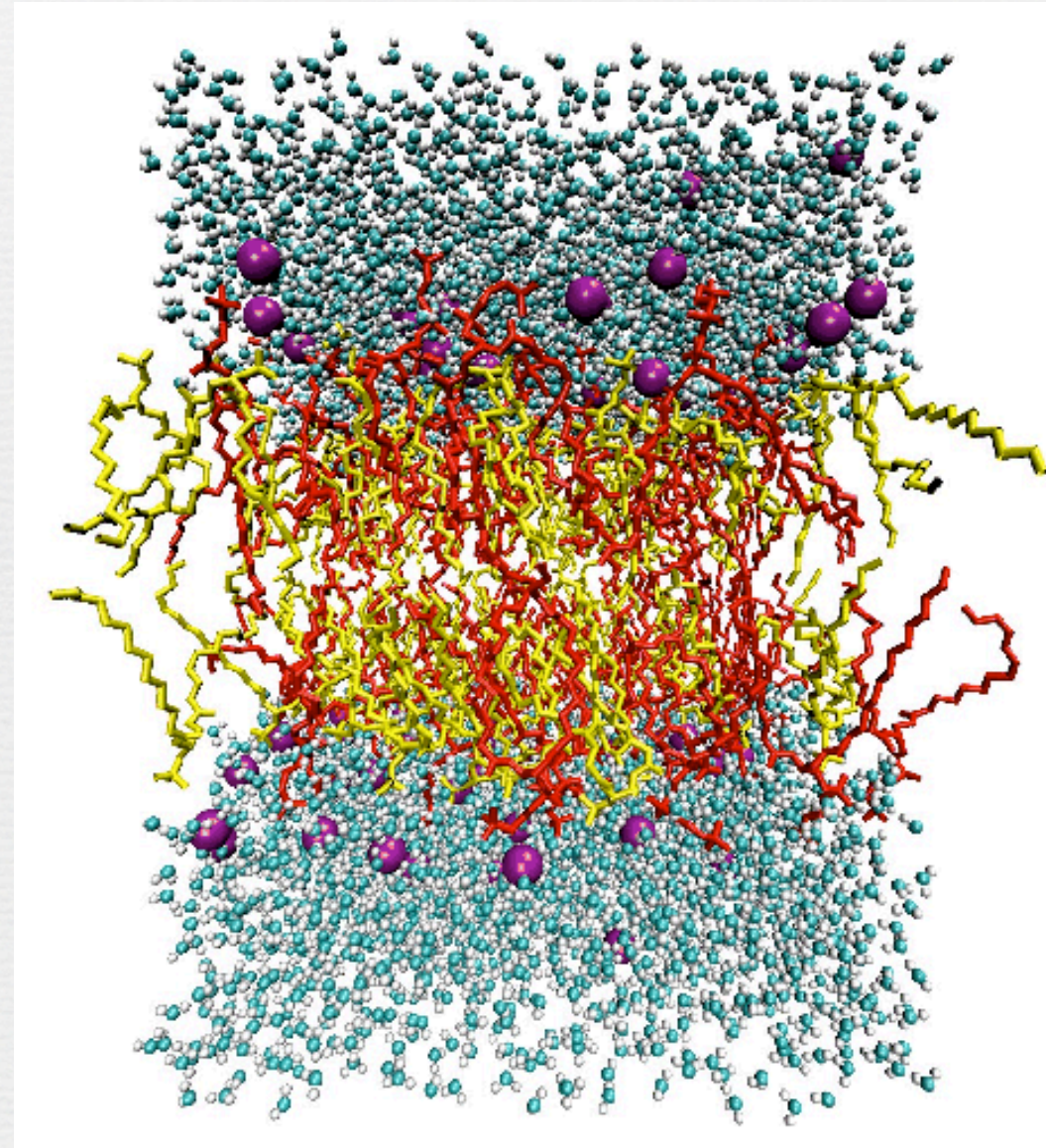


Figure 2-20 Essential Cell Biology, 2/e. (© 2004 Garland Science)





# membrane traffic

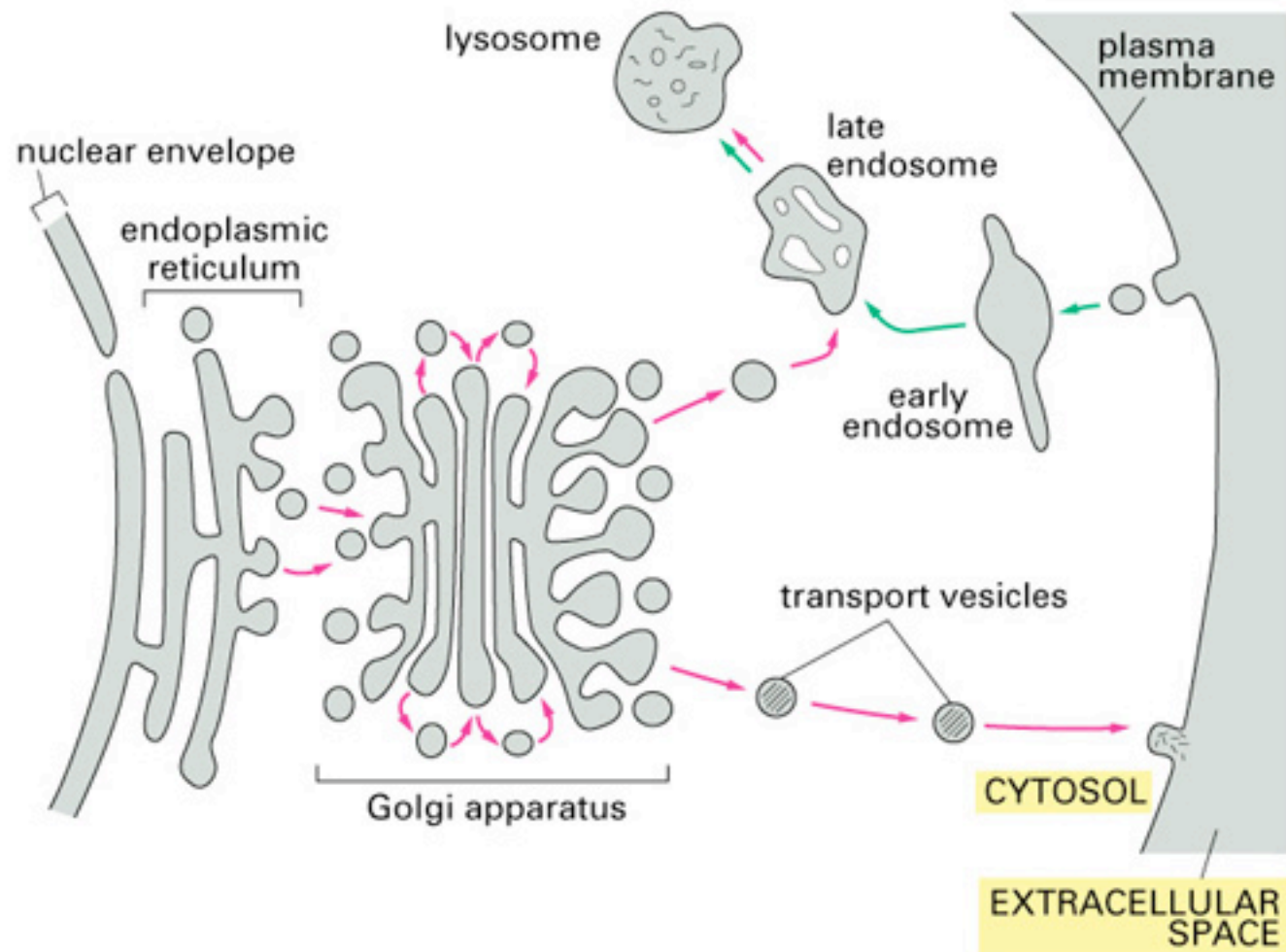
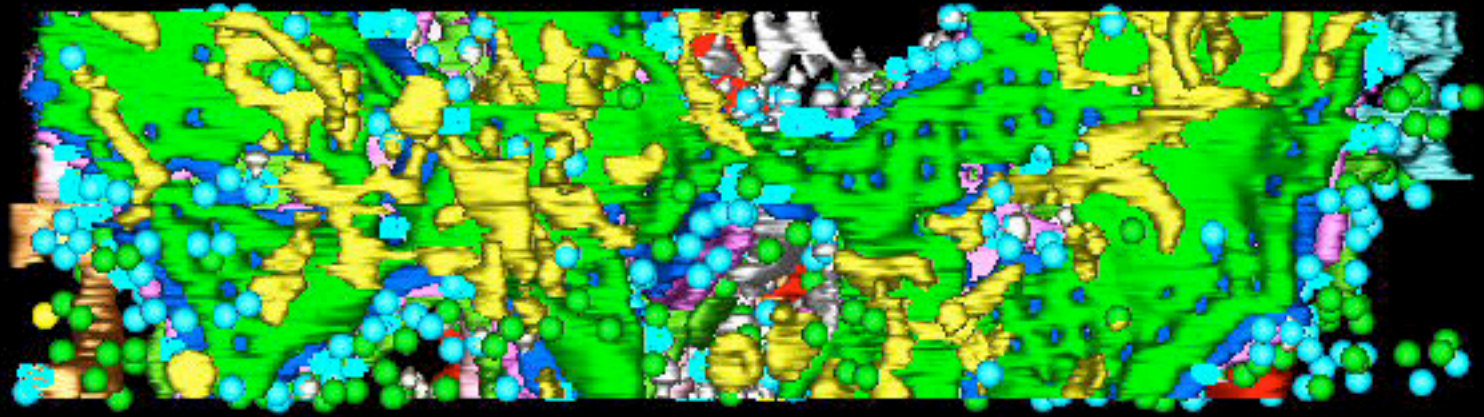
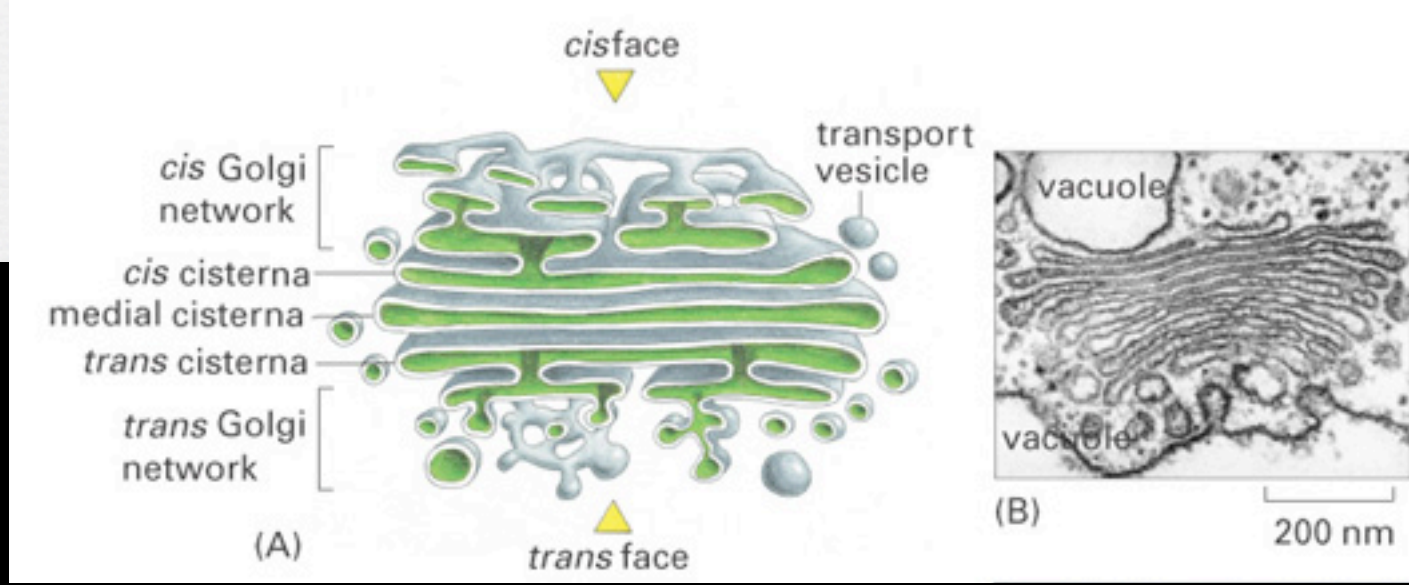
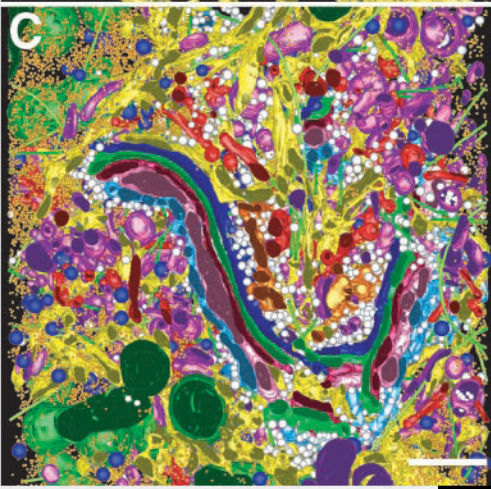
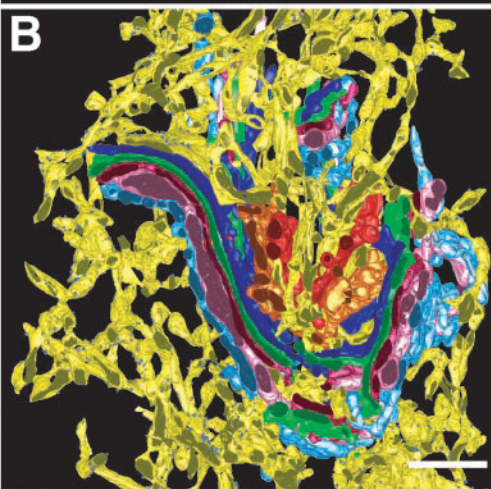
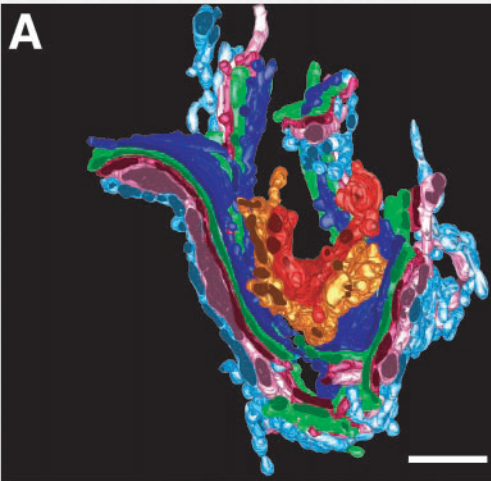


Figure 15-17 Essential Cell Biology, 2/e. (© 2004 Garland Science)

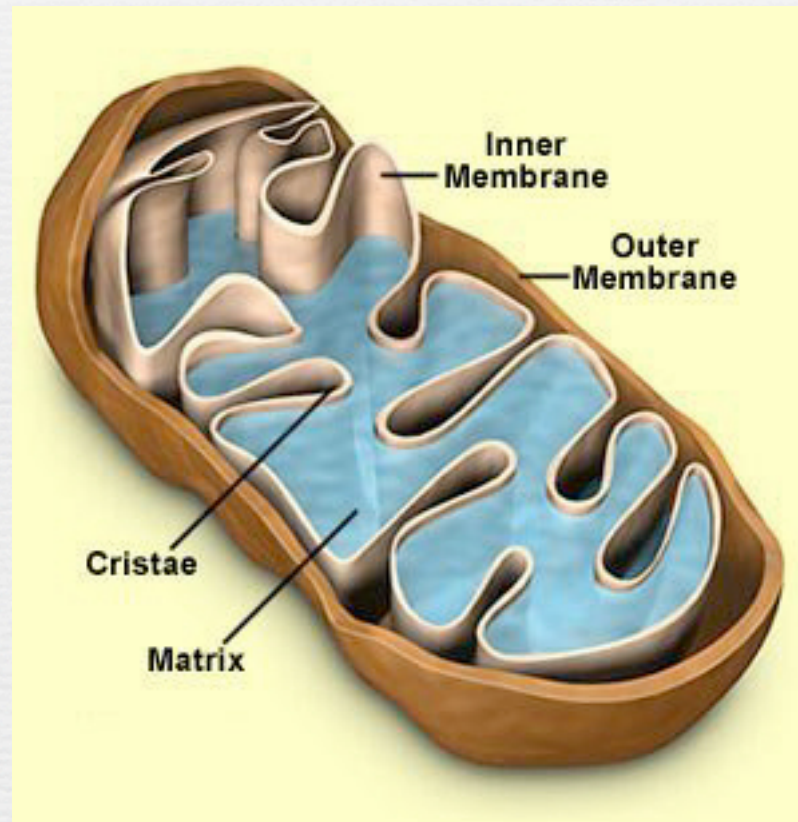


# golgi

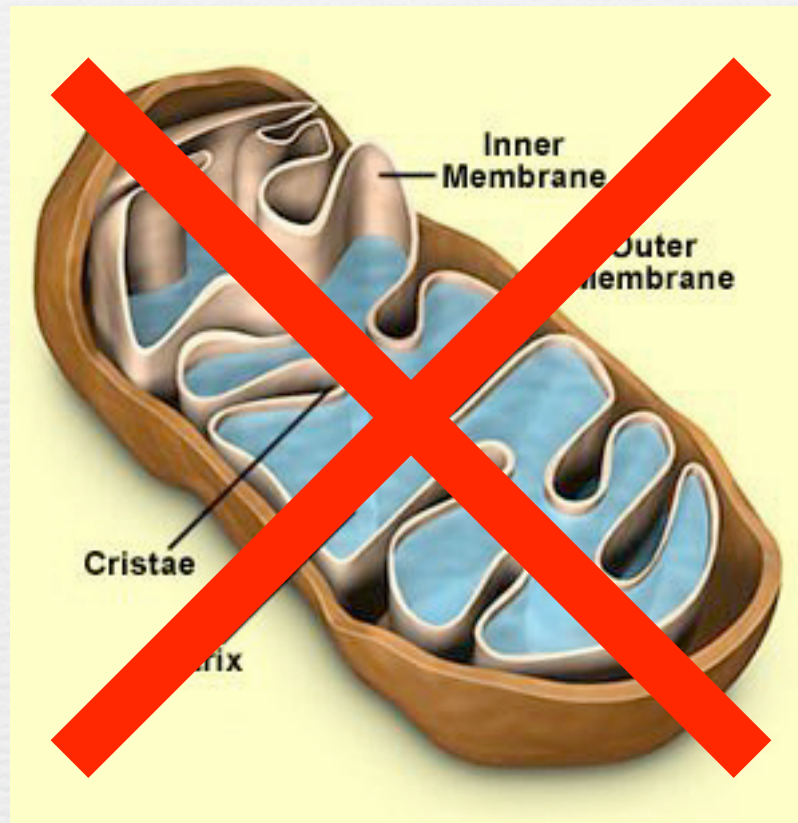




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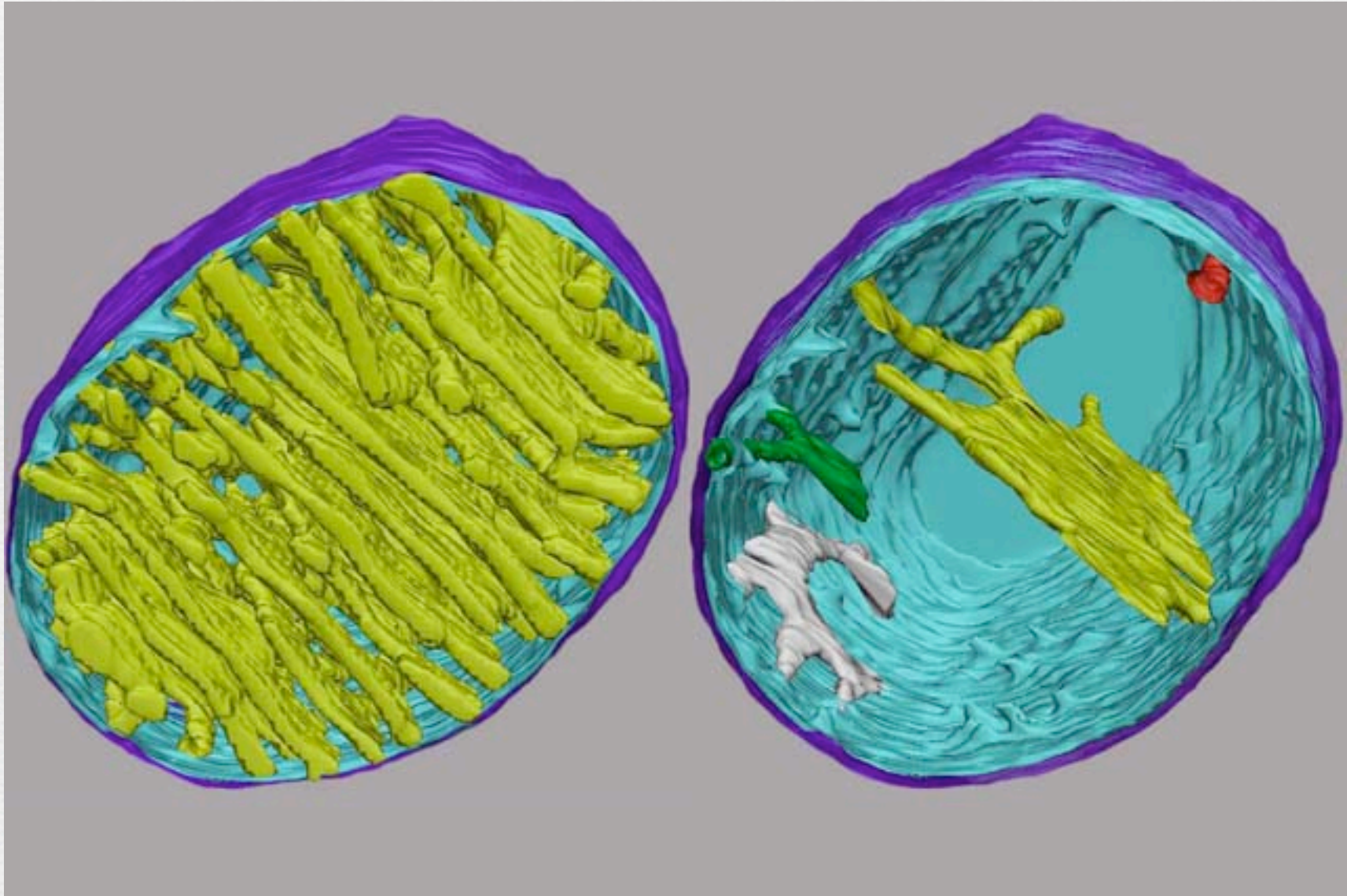


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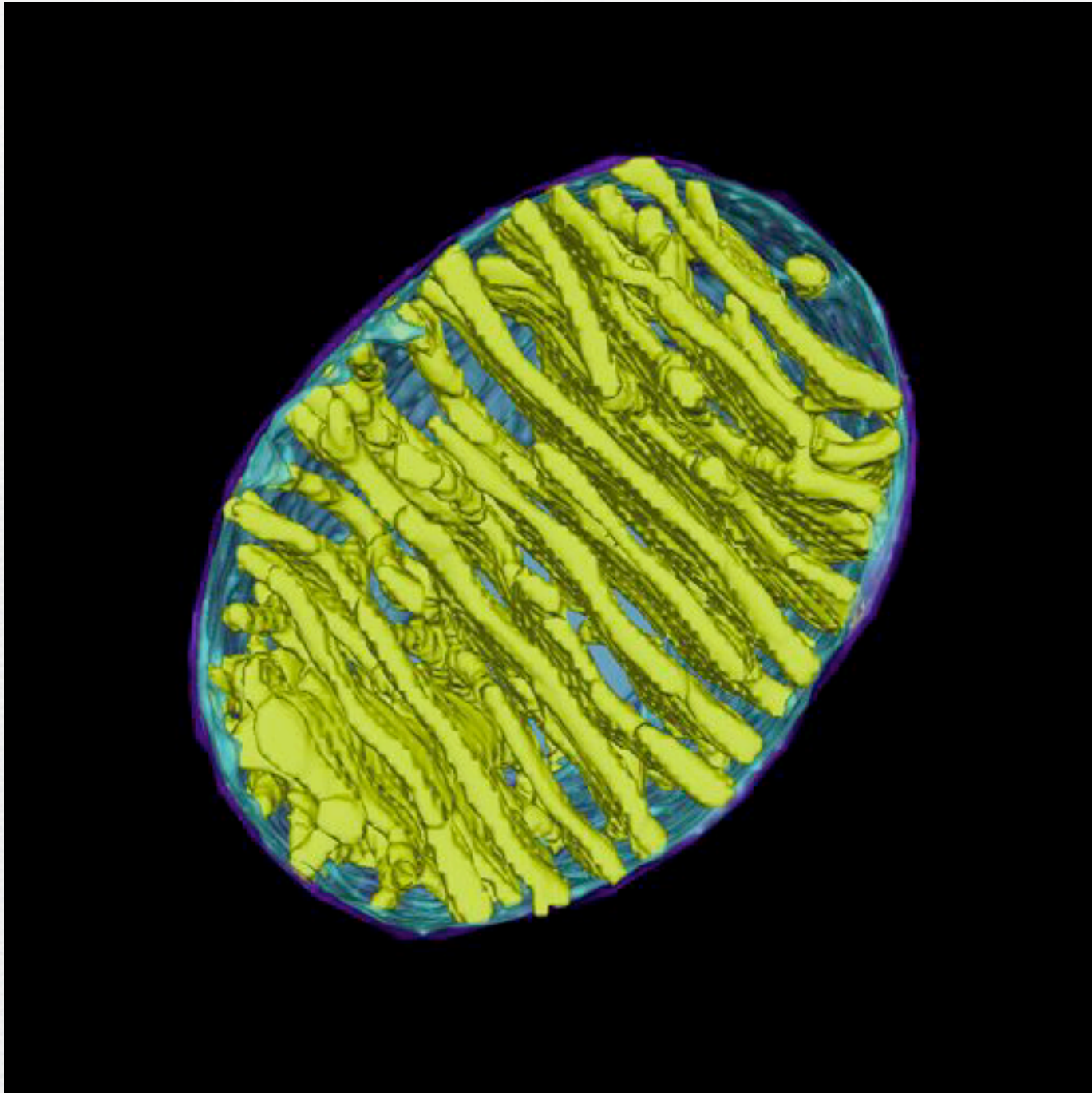




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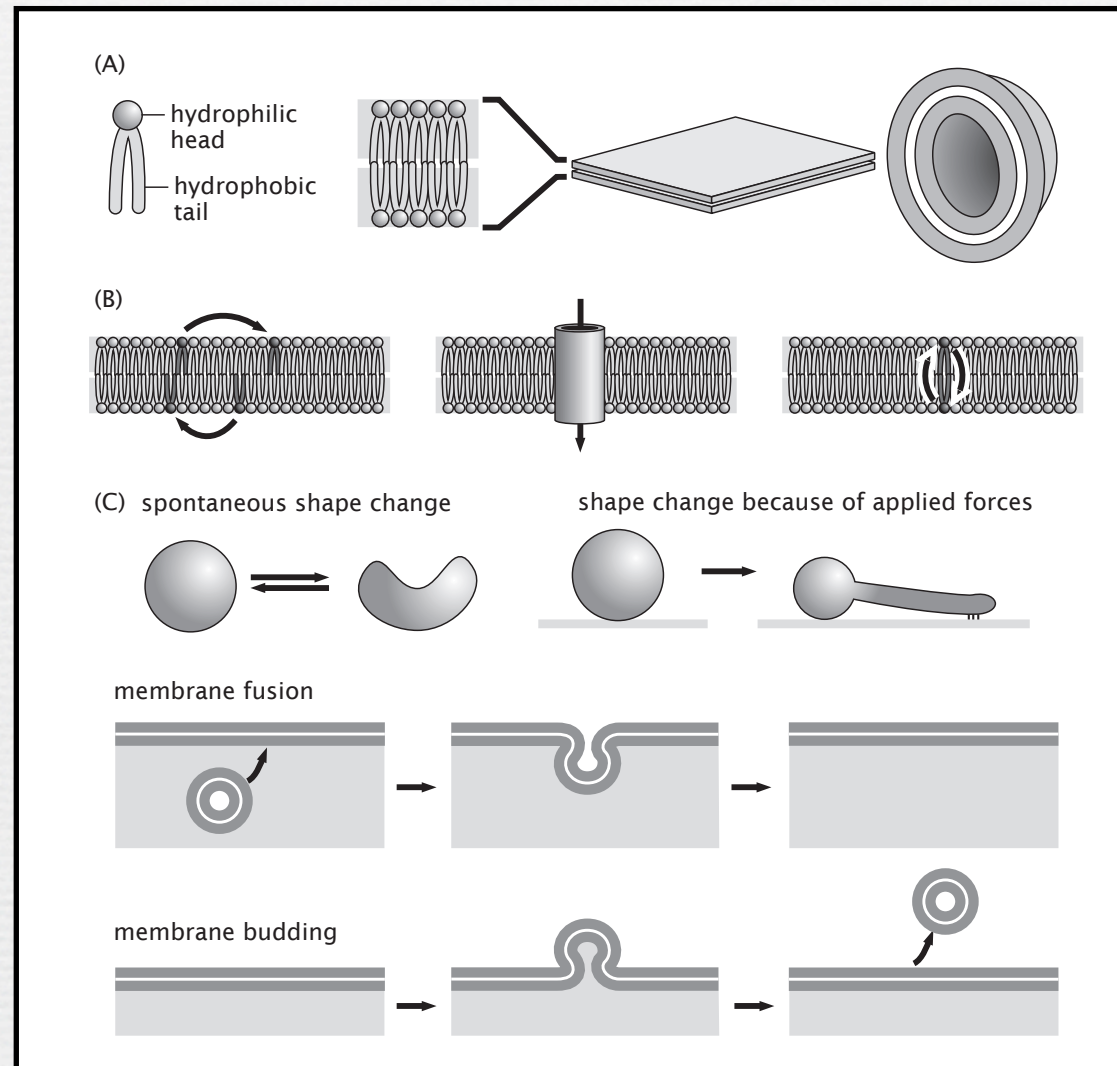






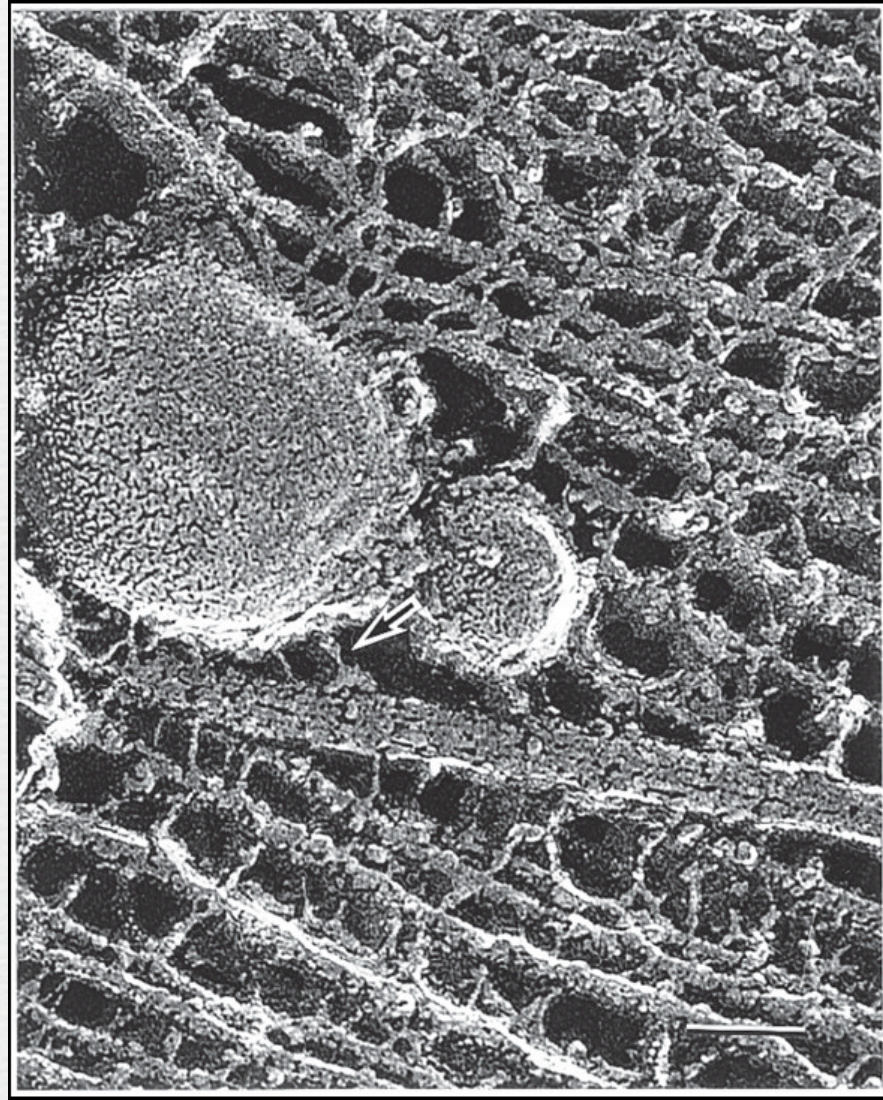


# i know what the membrane did last summer



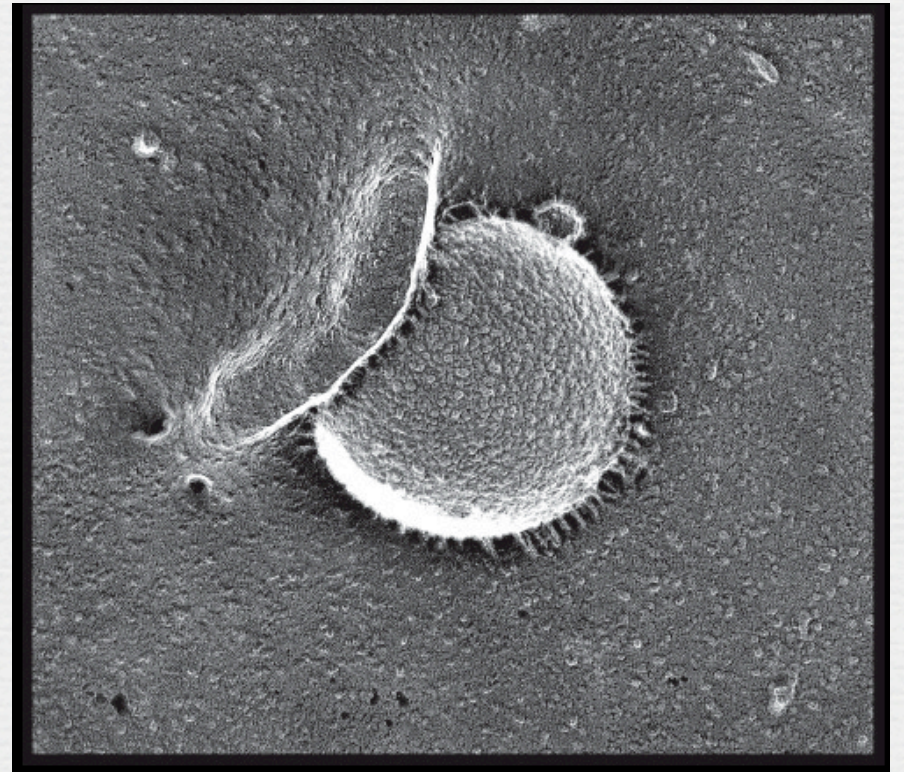
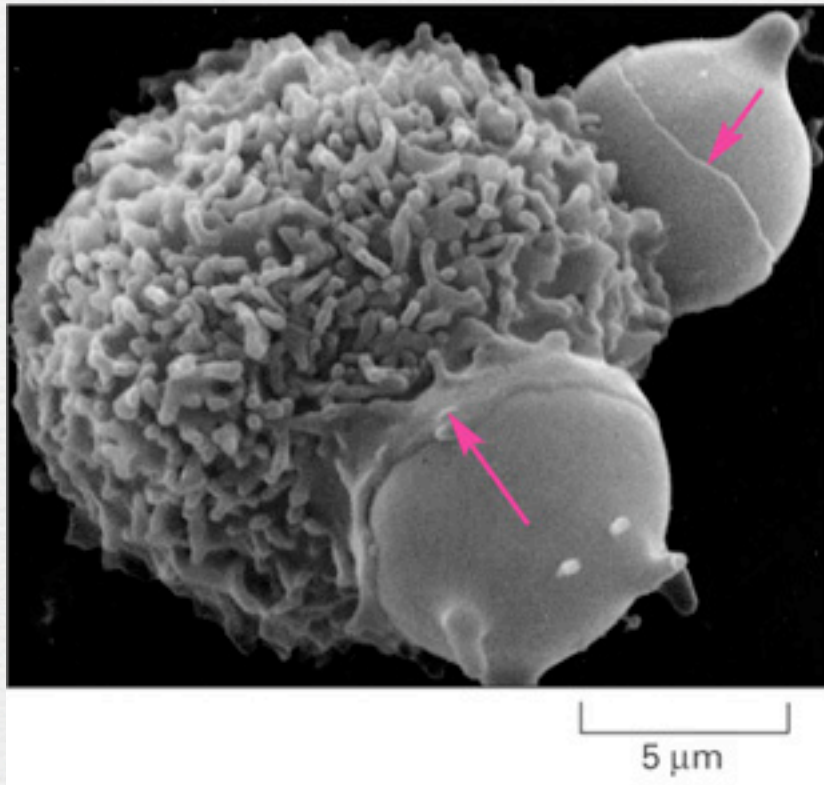


# vesicle transport



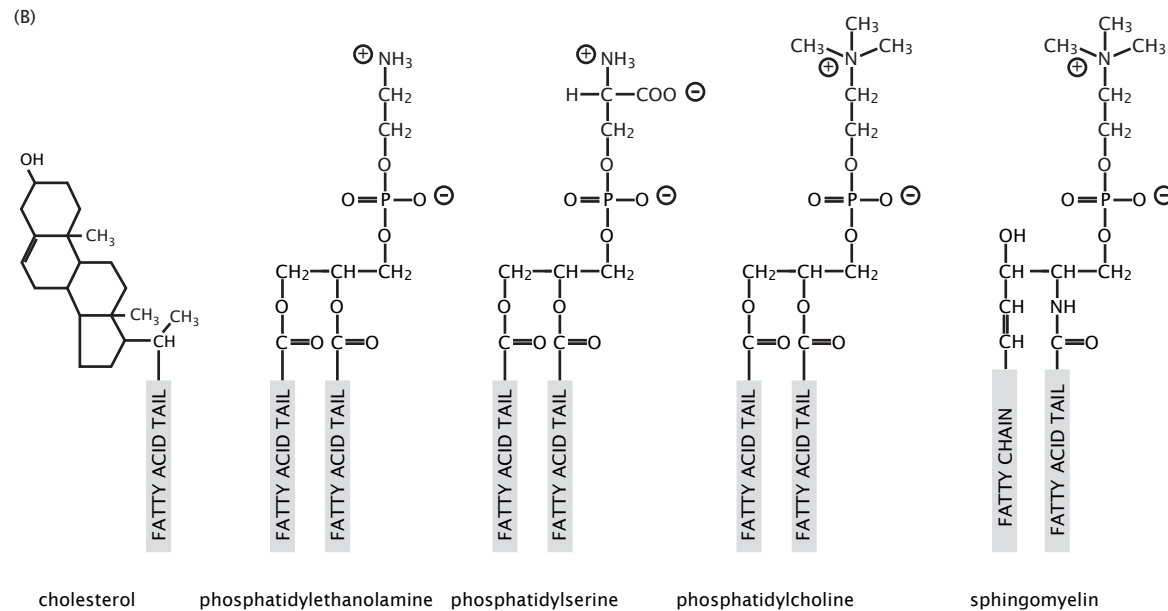
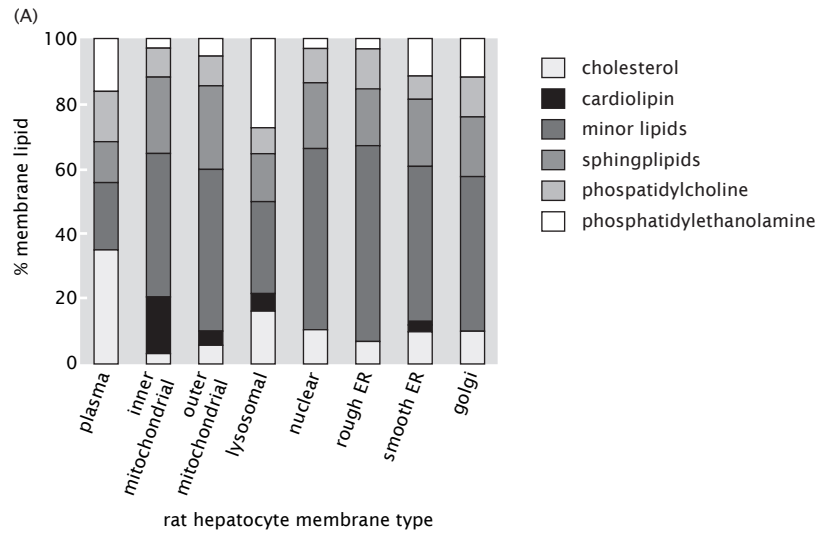


# phagocytosis





# cell lipid census



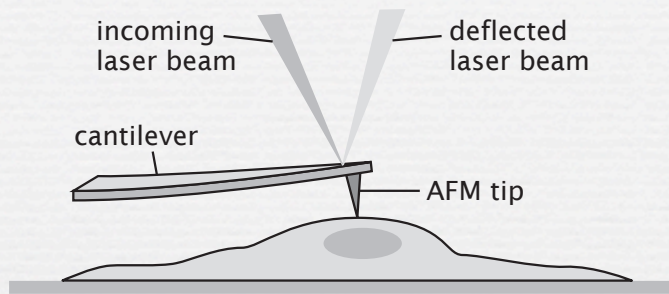


# The Inner Life of the Cell

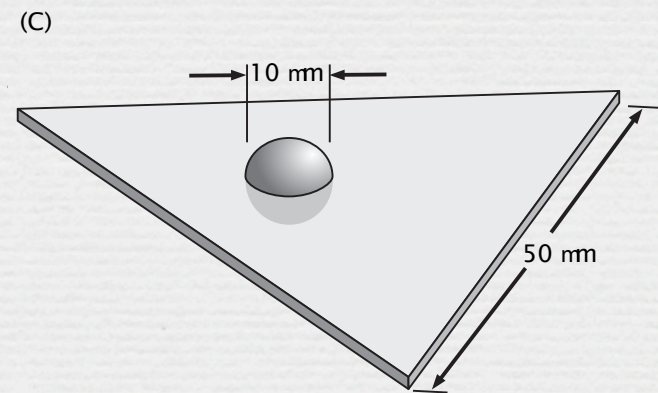
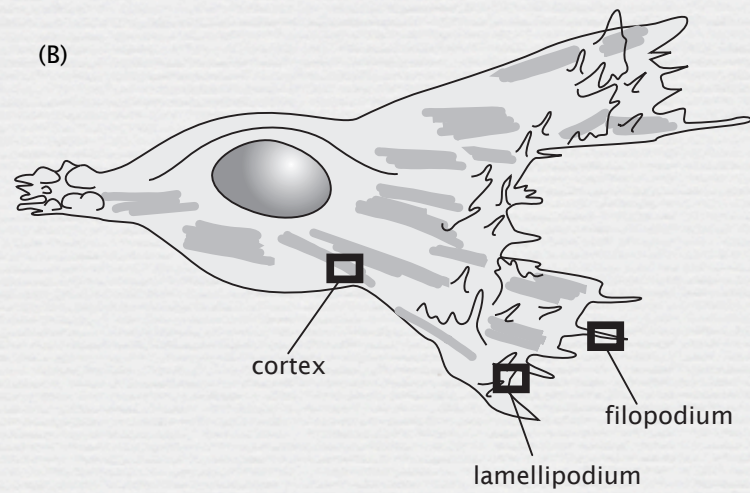
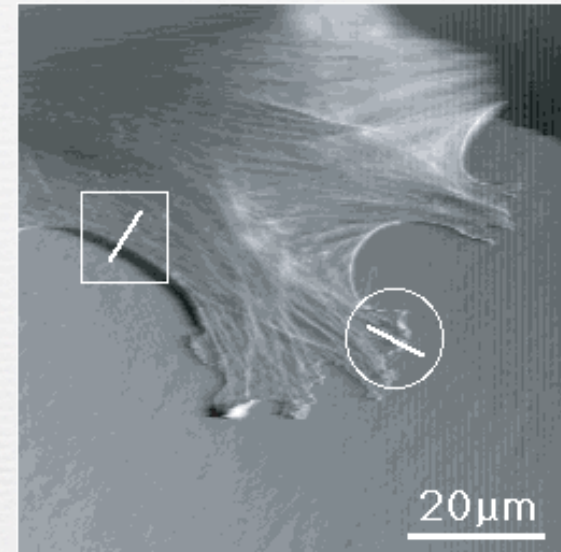






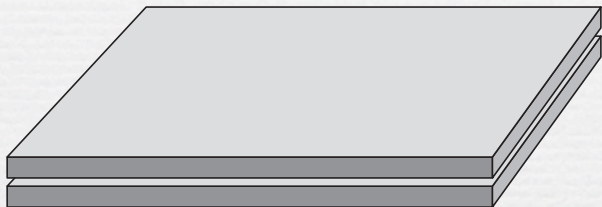


(A) POSITION ONLY

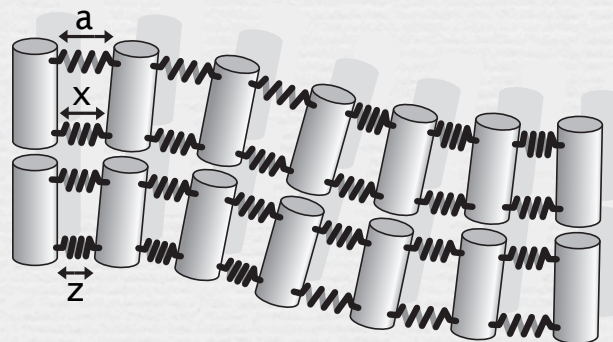
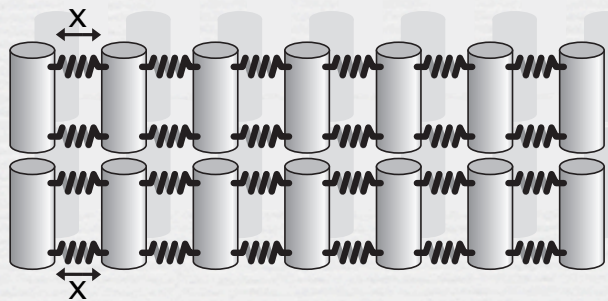
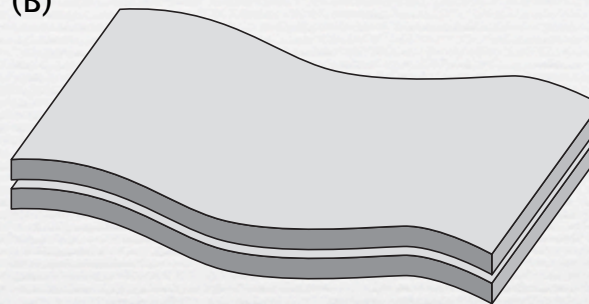


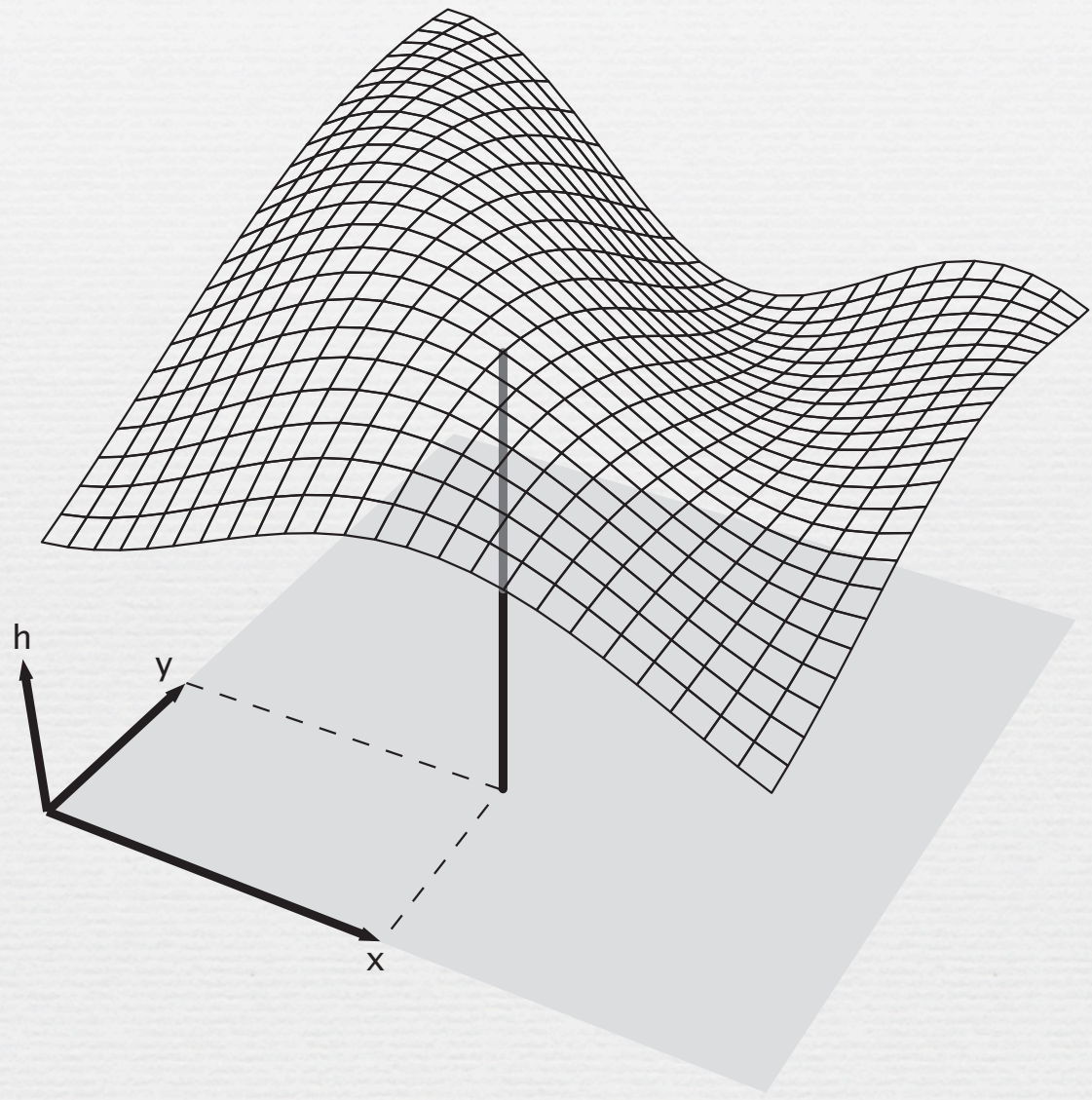


(A)



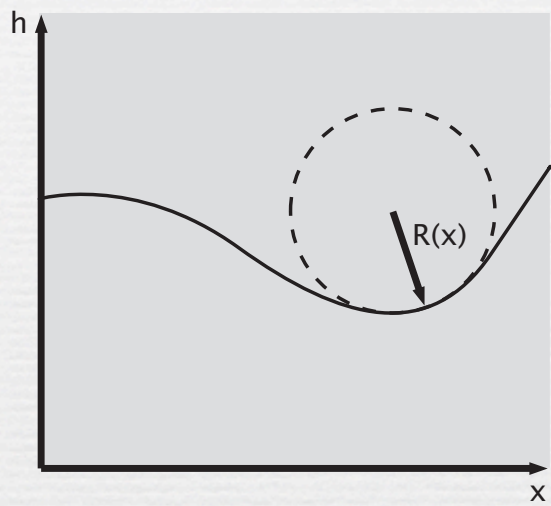
(B)



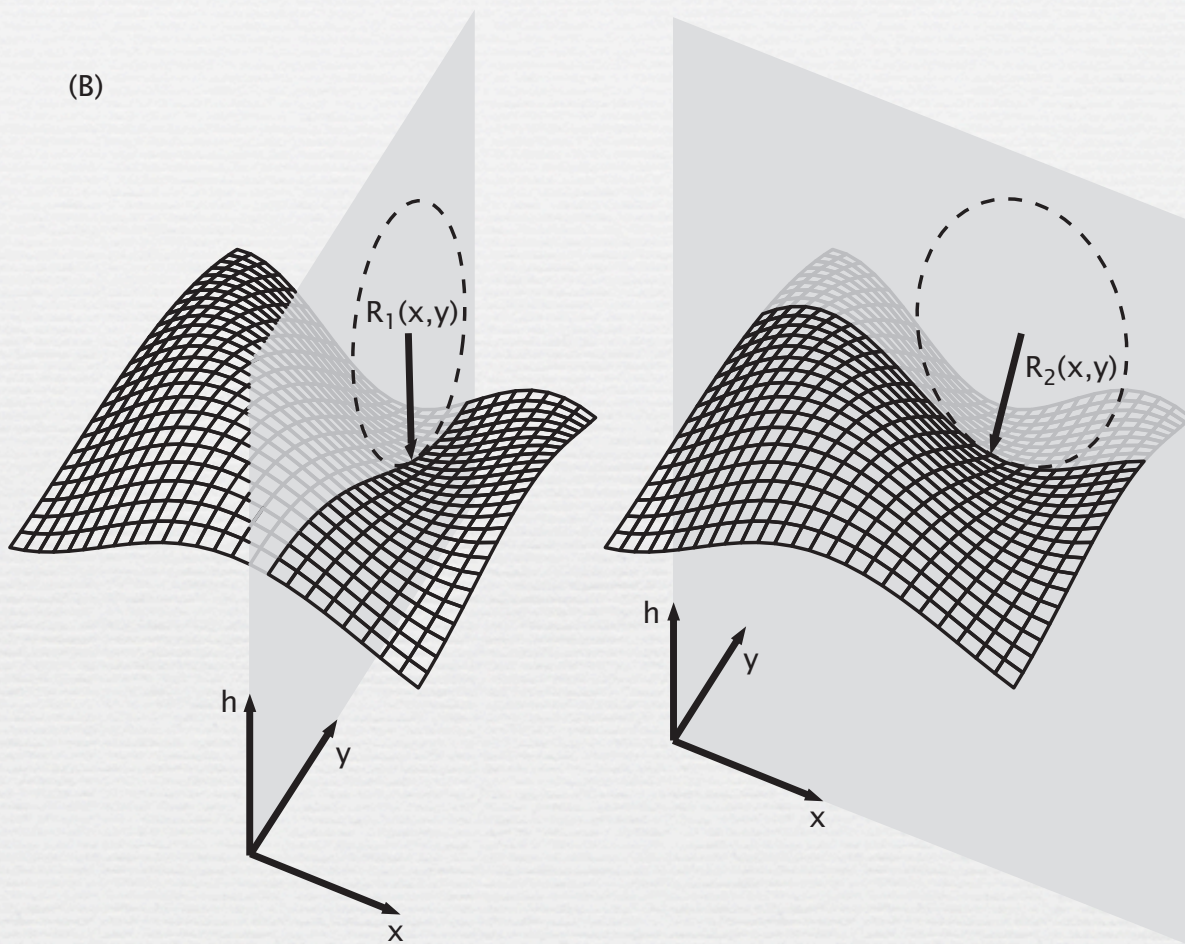


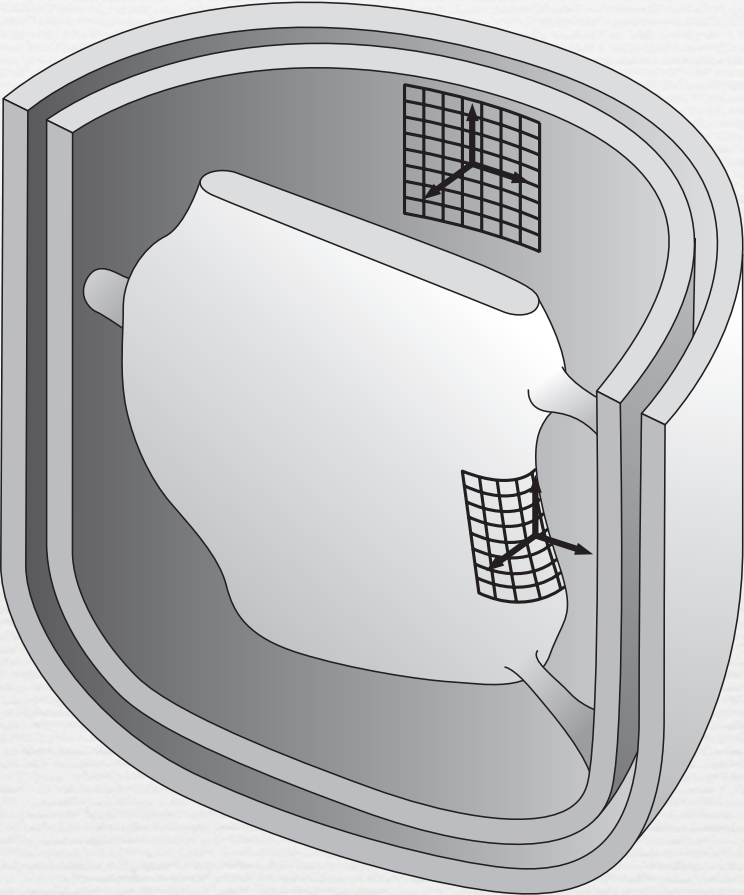


(A)



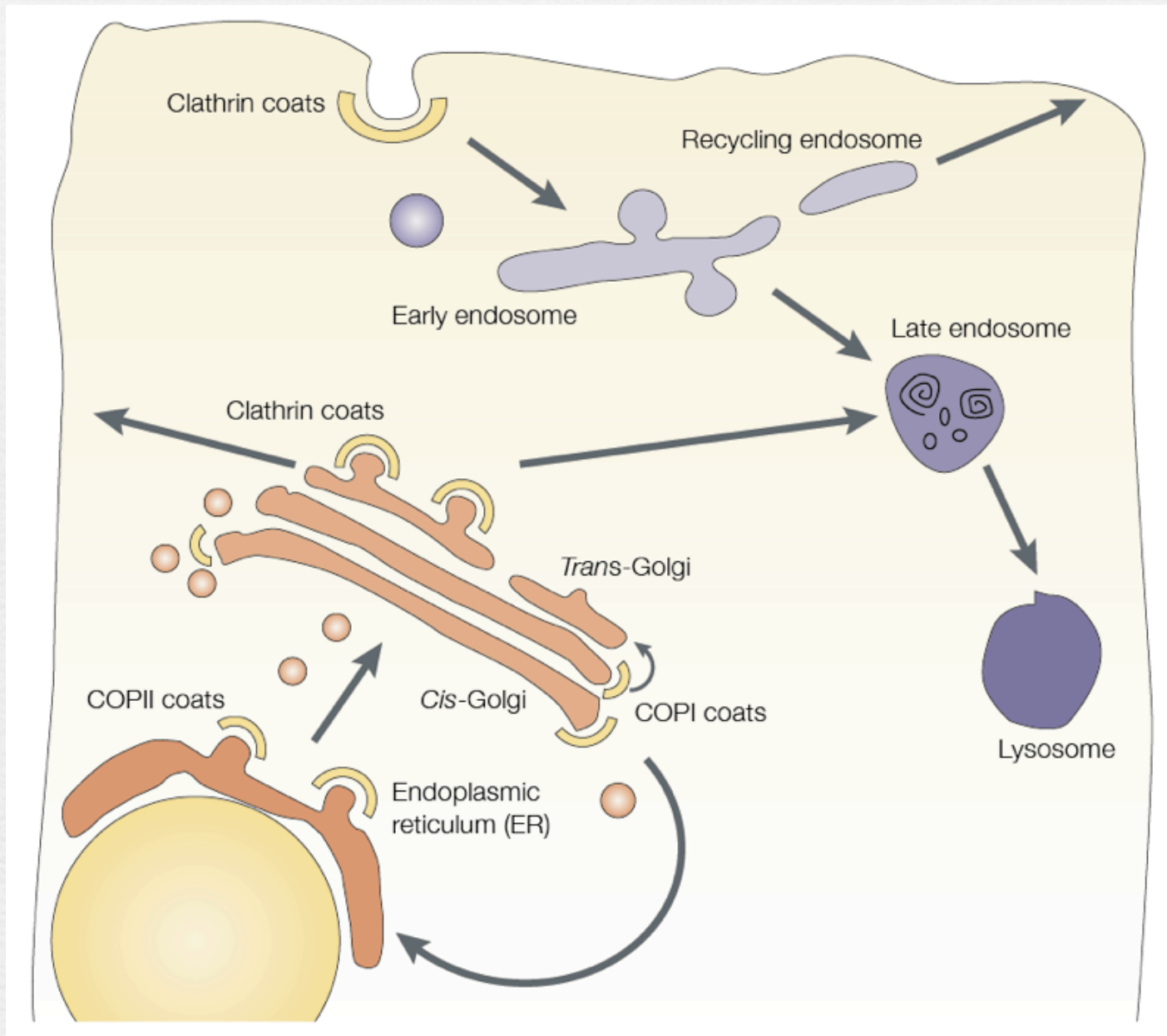
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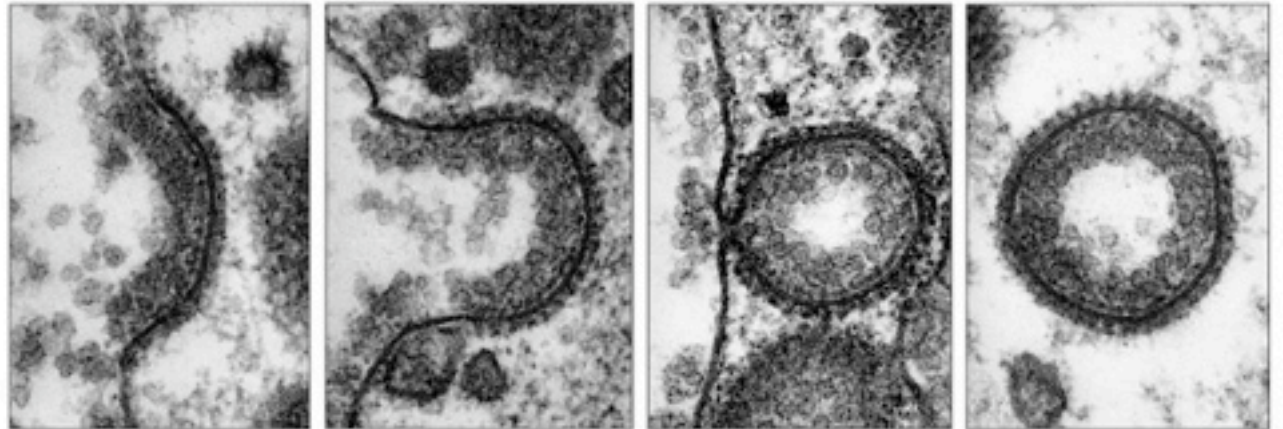
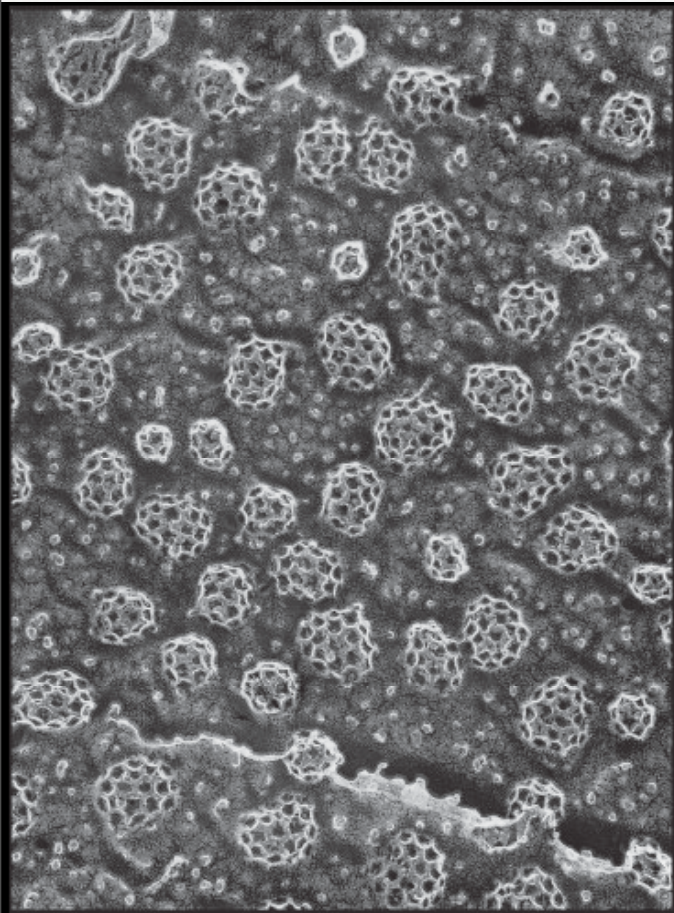




# protein coats

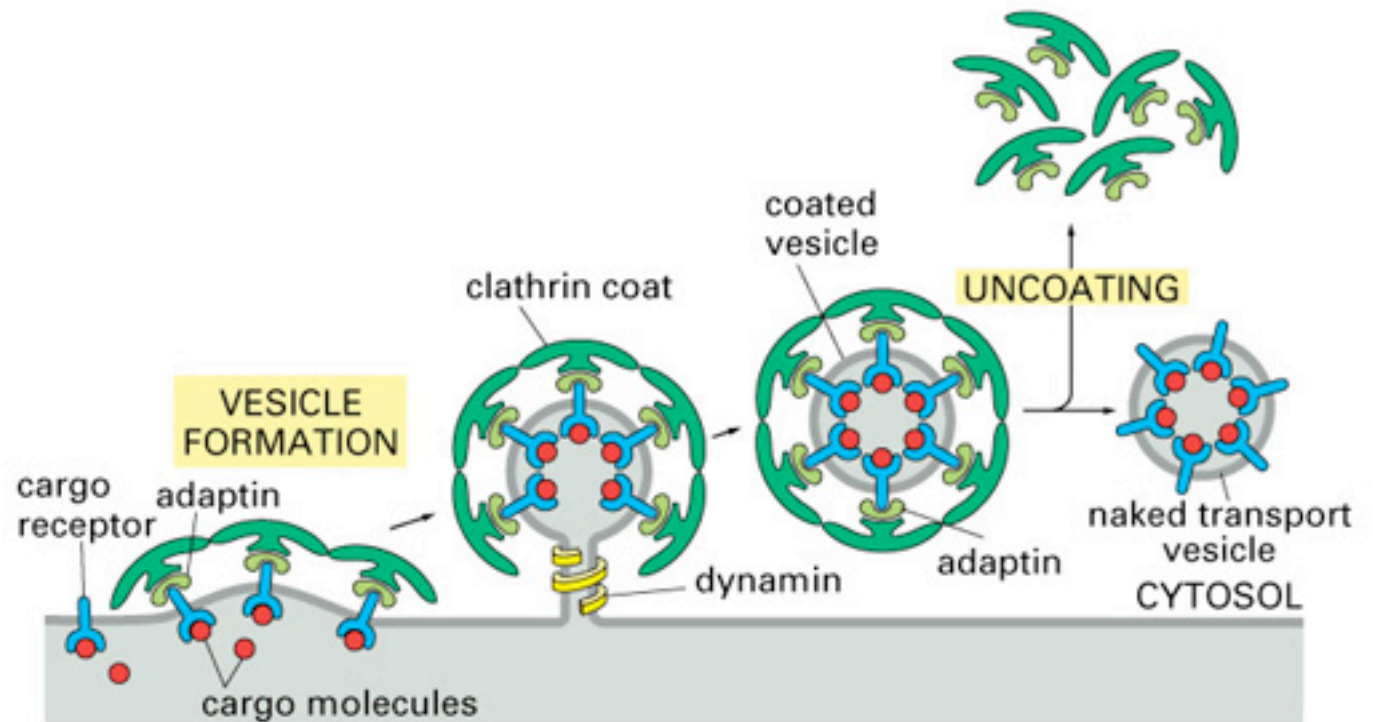


# clathrin



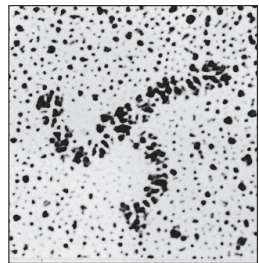
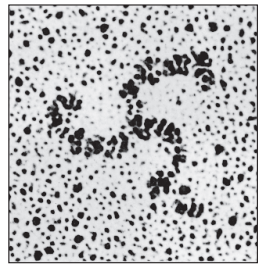
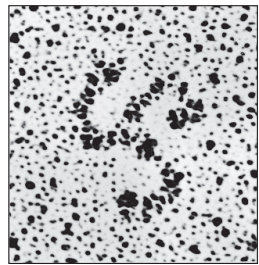
(A)

0.1 μm

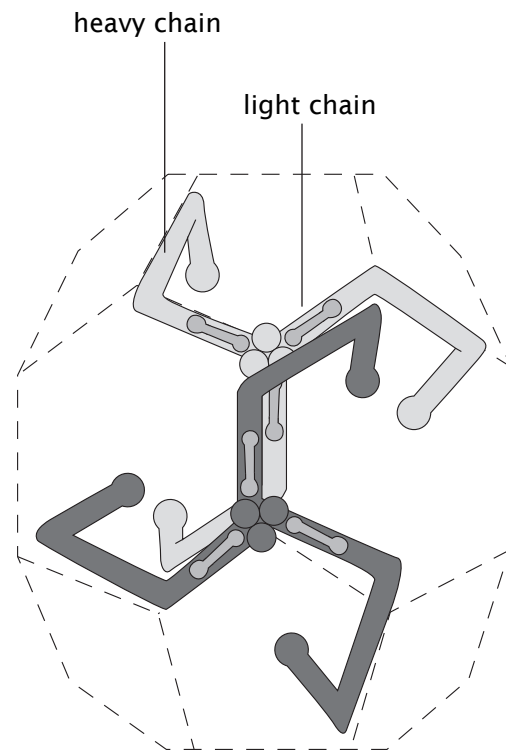




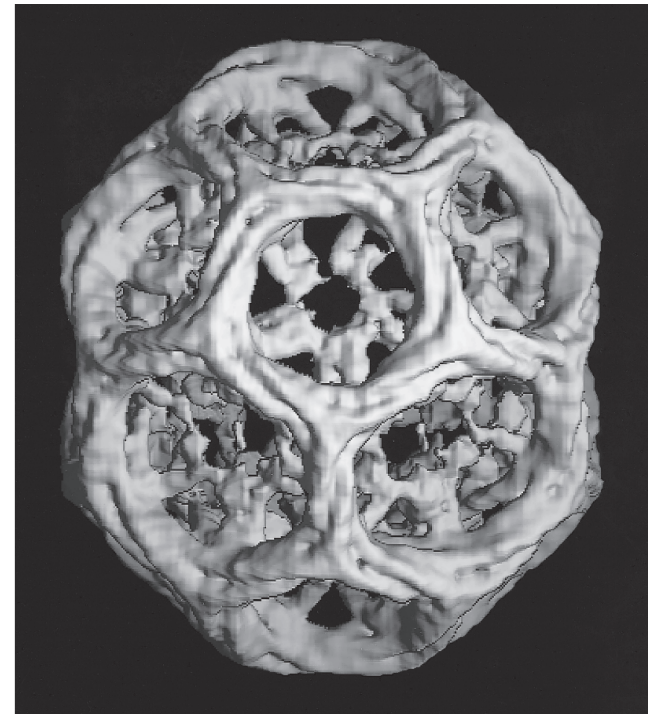
# clathrin



(A)

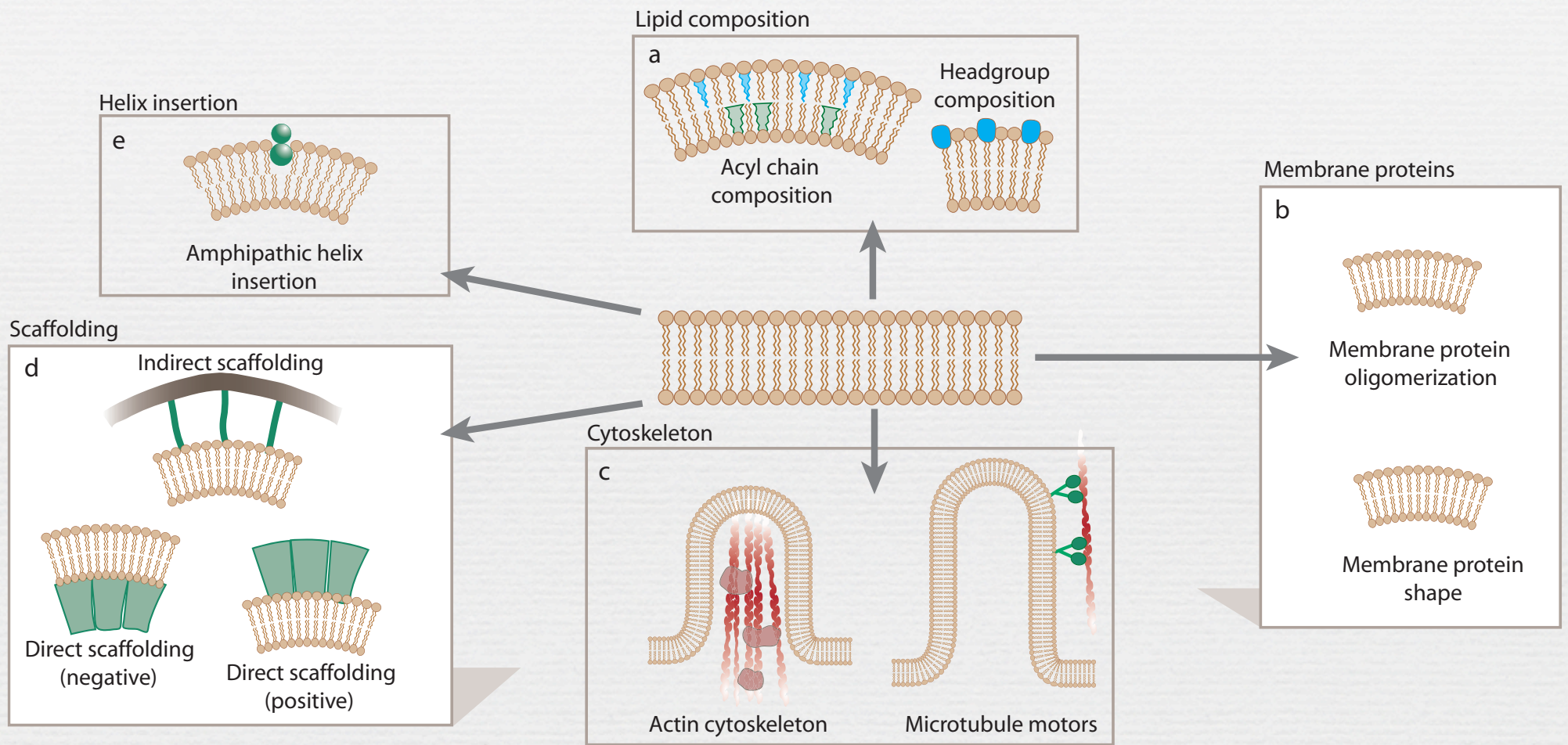


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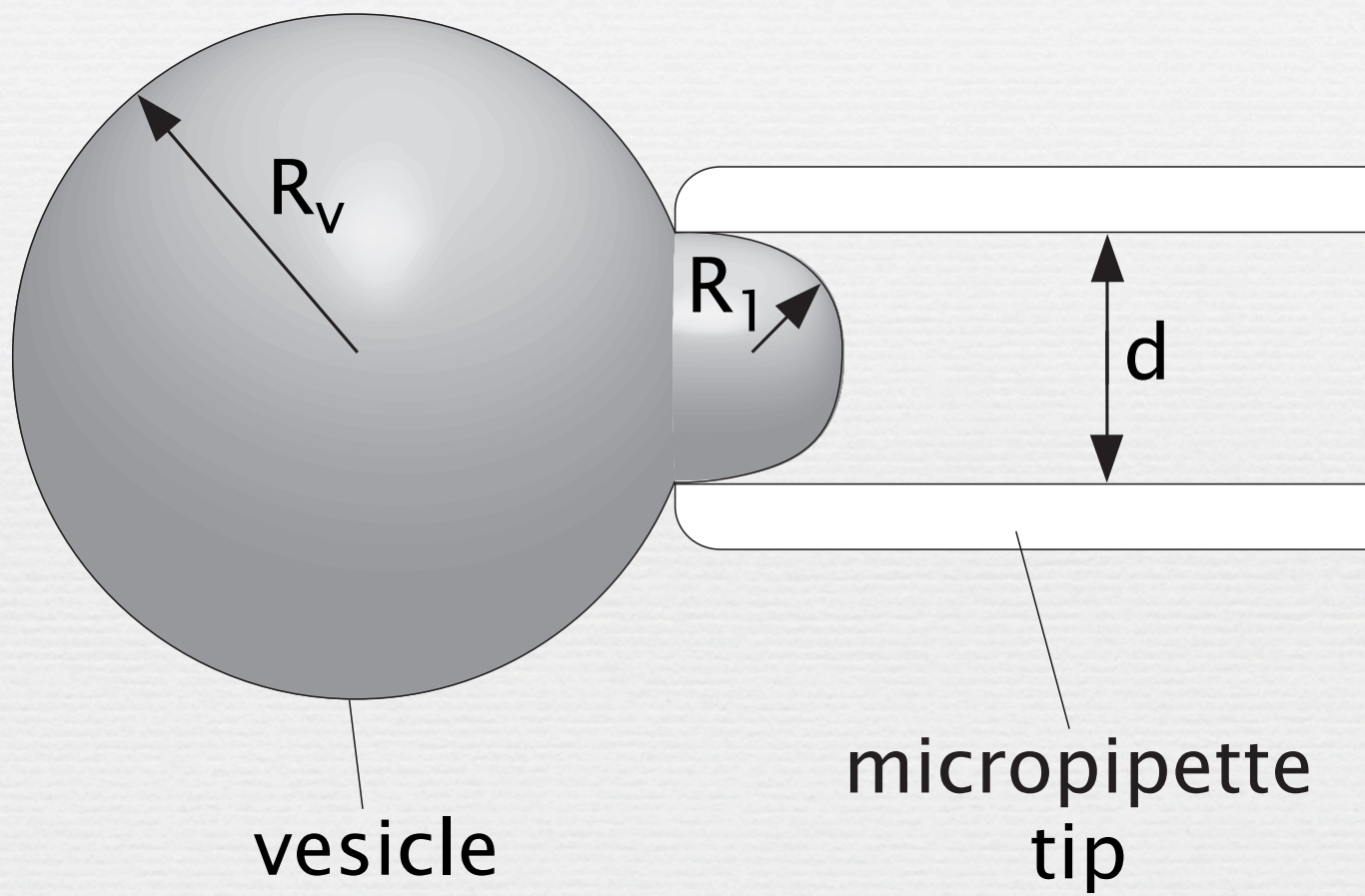


(C)

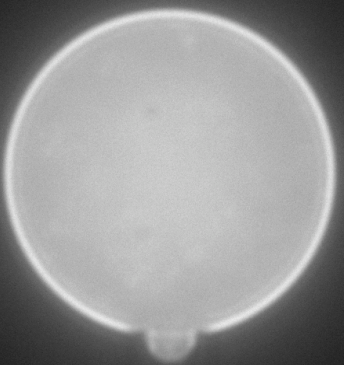
50 nm





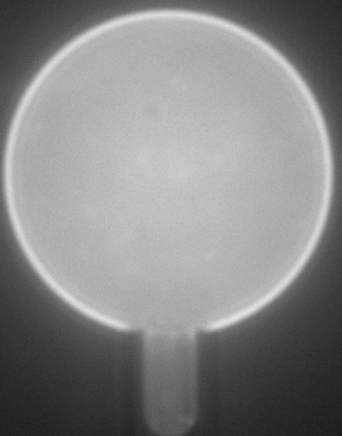


Tension = 1.06 mN/m



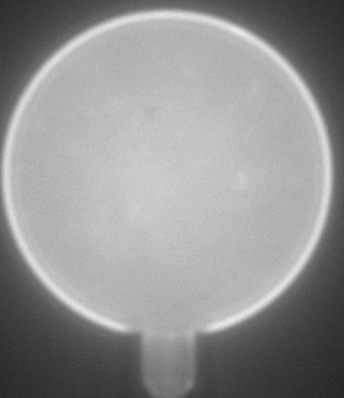
20 microns

Tension = 5.29 mN/m



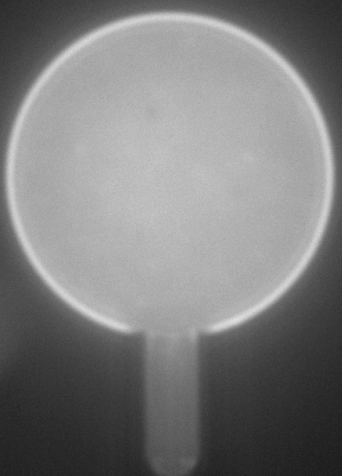
20 microns

Tension = 3.17 mN/m



20 microns

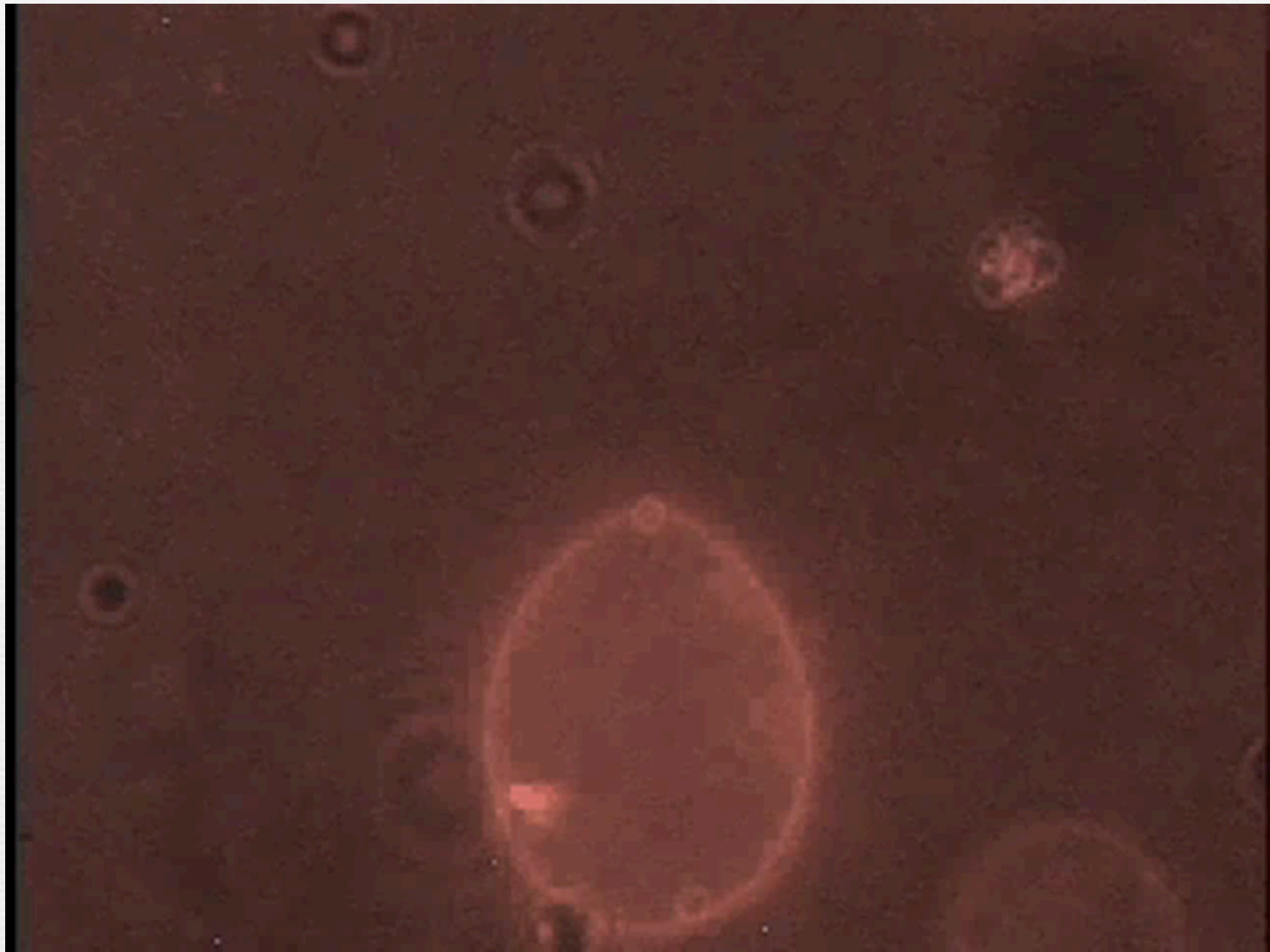
Tension = 7.40 mN/m



20 microns

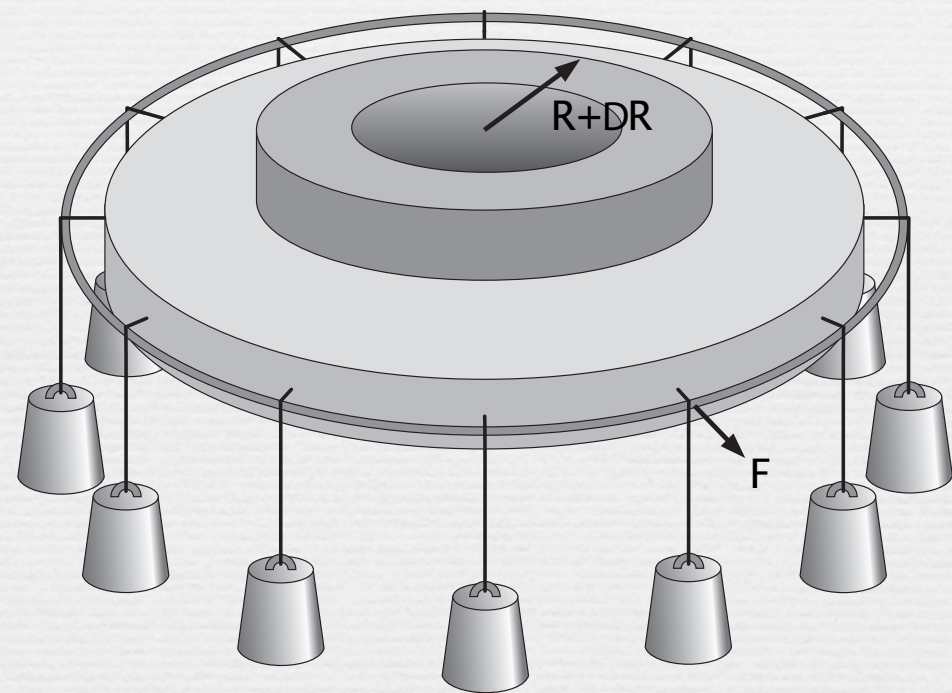
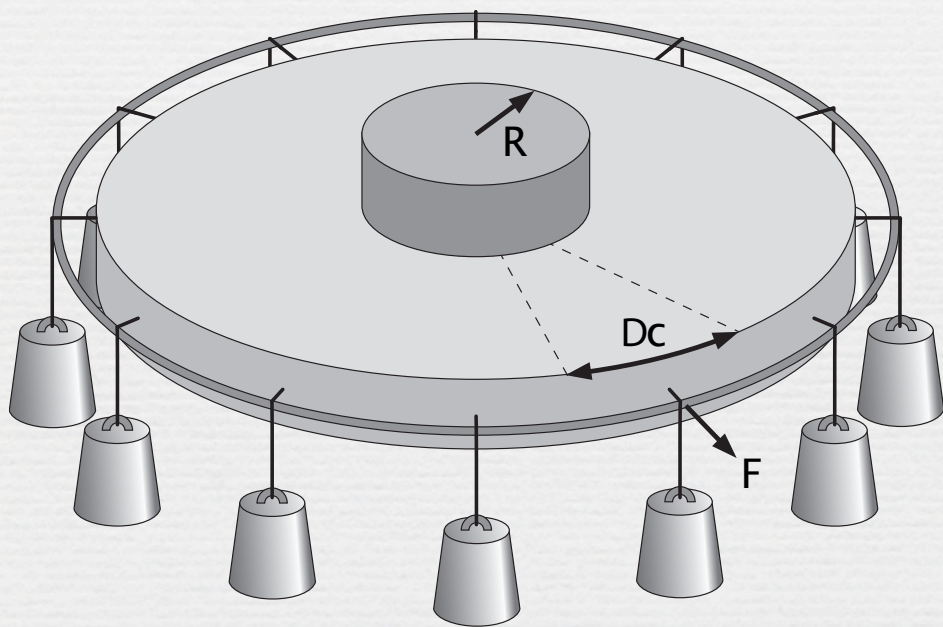






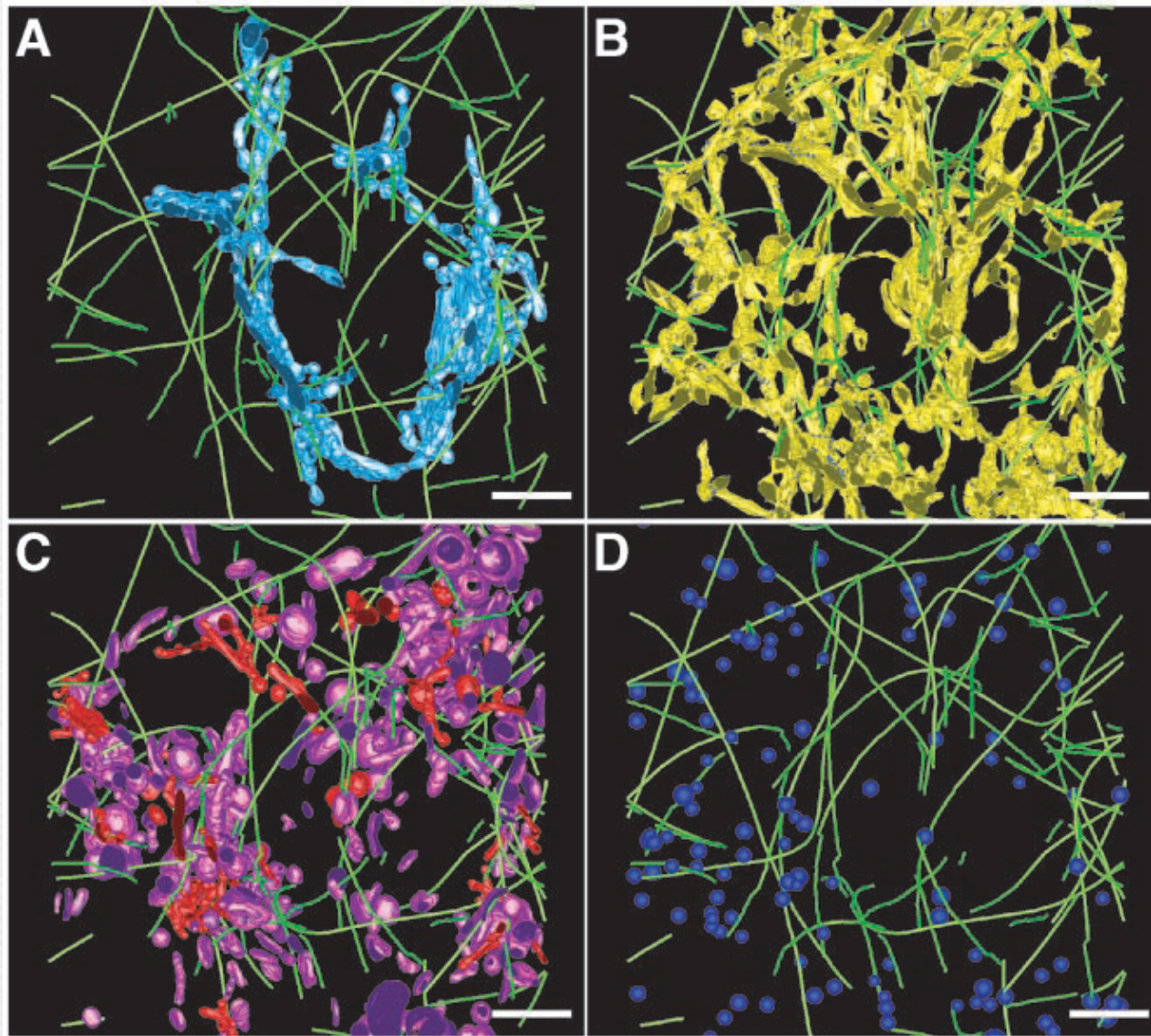


# surface tension



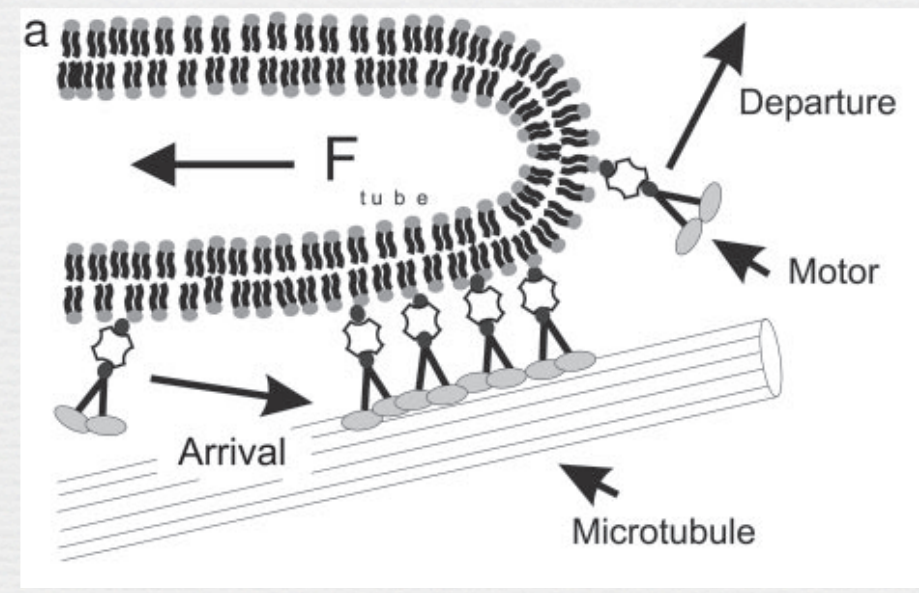
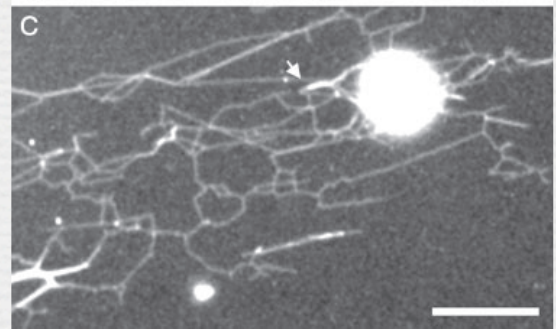
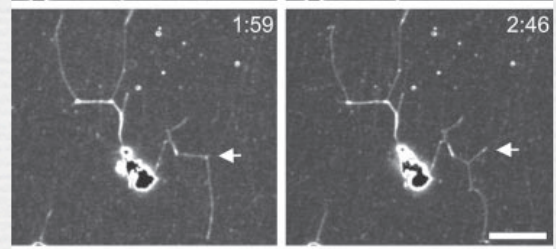
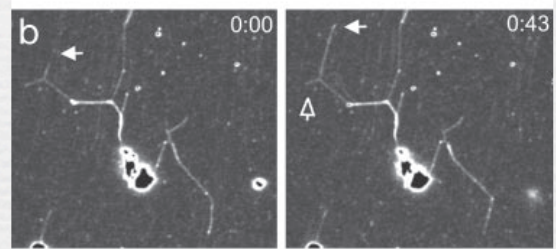
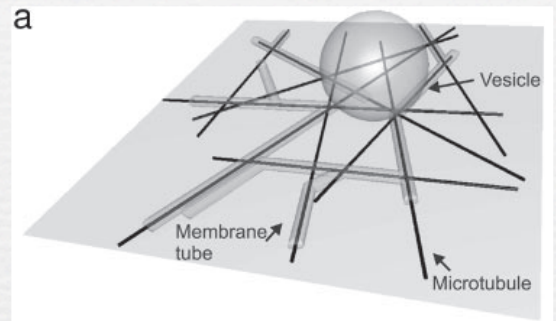


# tethers in cells





# tethers in vitro



# tethers: in vivo model

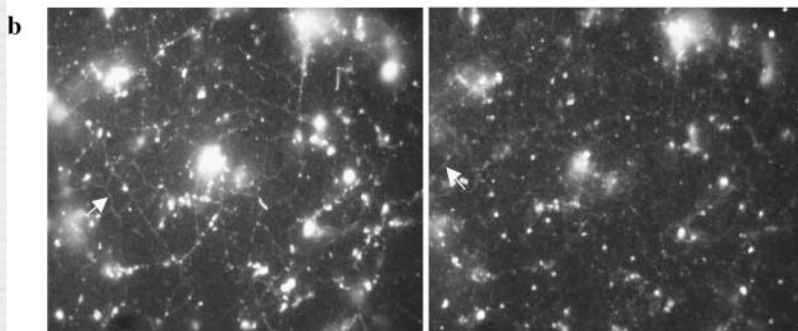
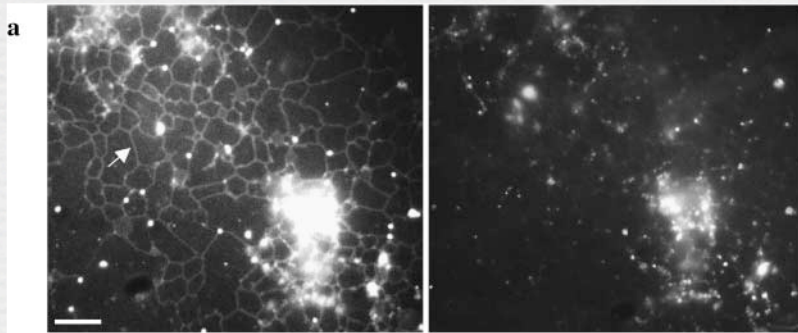
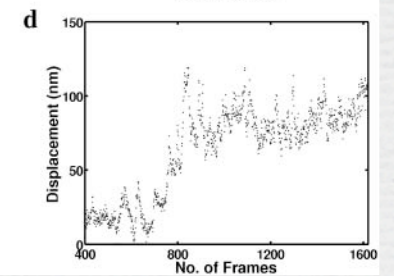
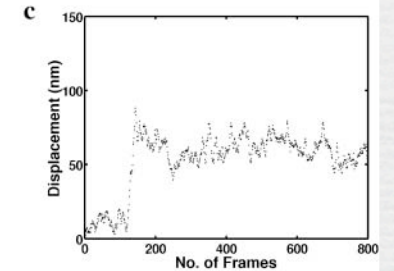
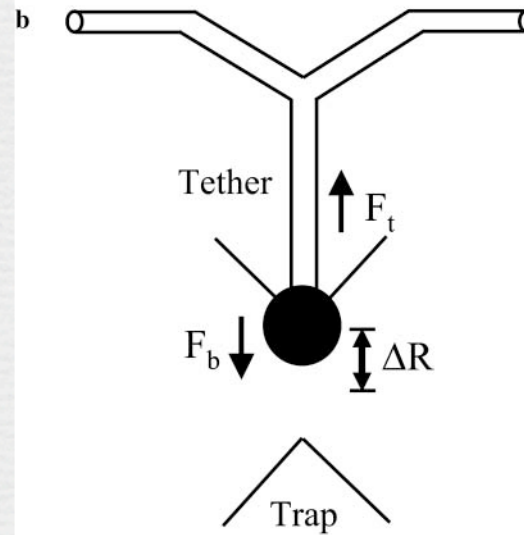
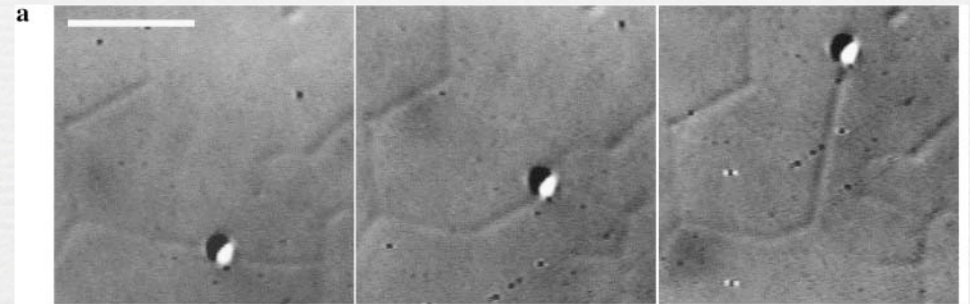
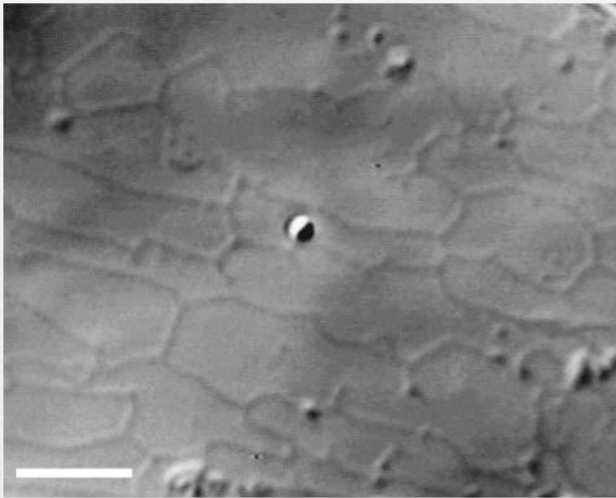
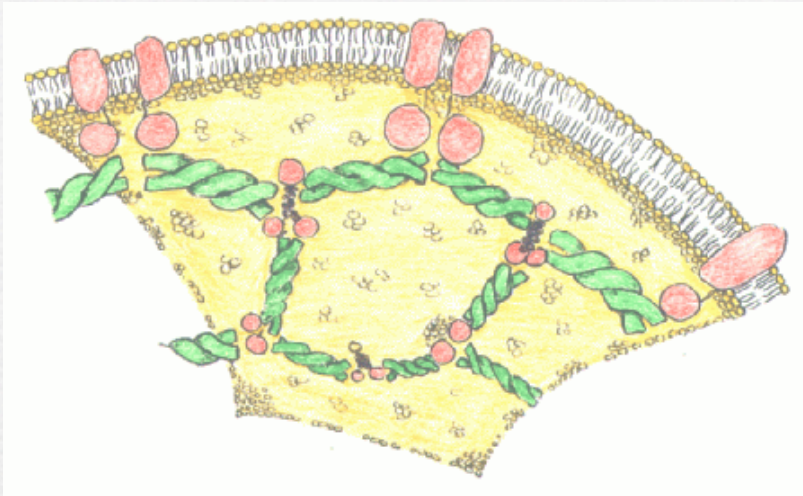
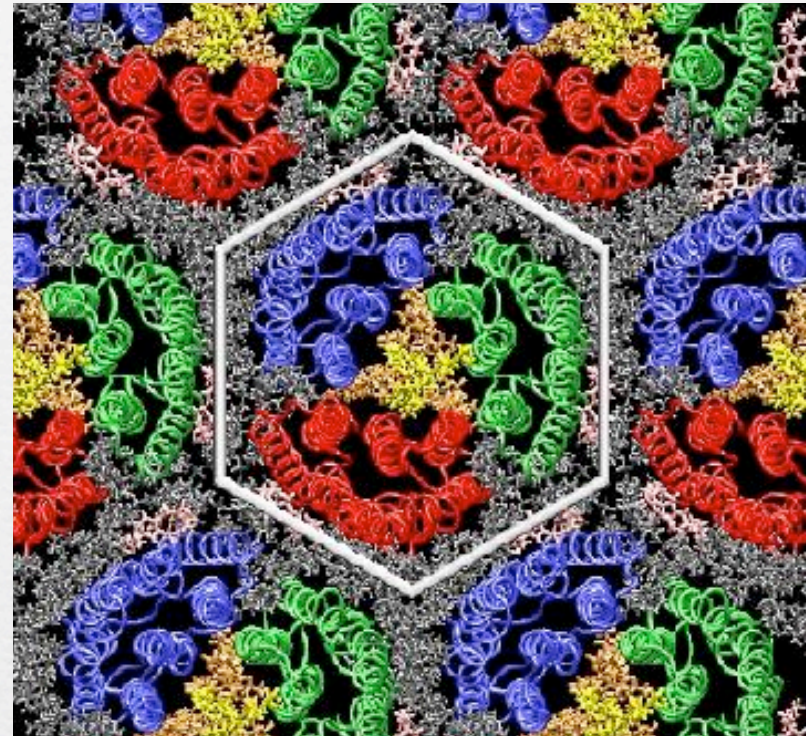




Image courtesy of simscience.org



## Schulten



## Keller

