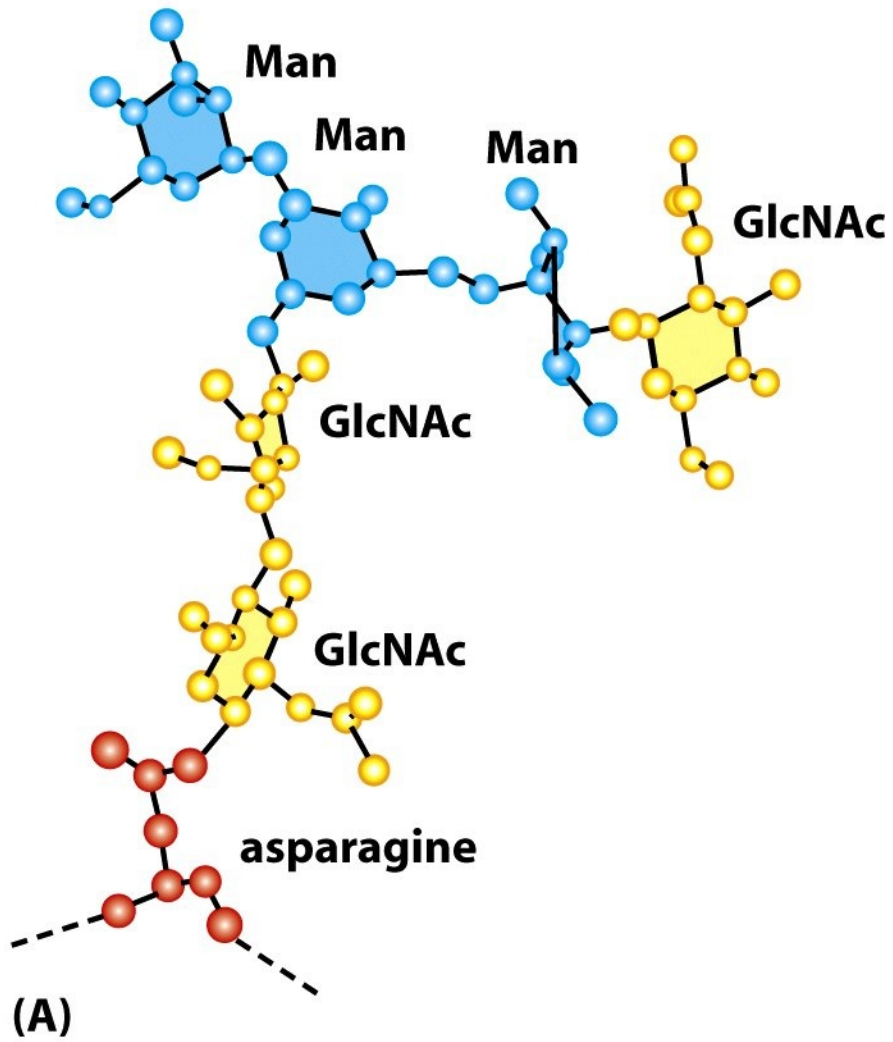


**3'-phosphoadenosine-5'-phosphosulfate
(PAPS)**



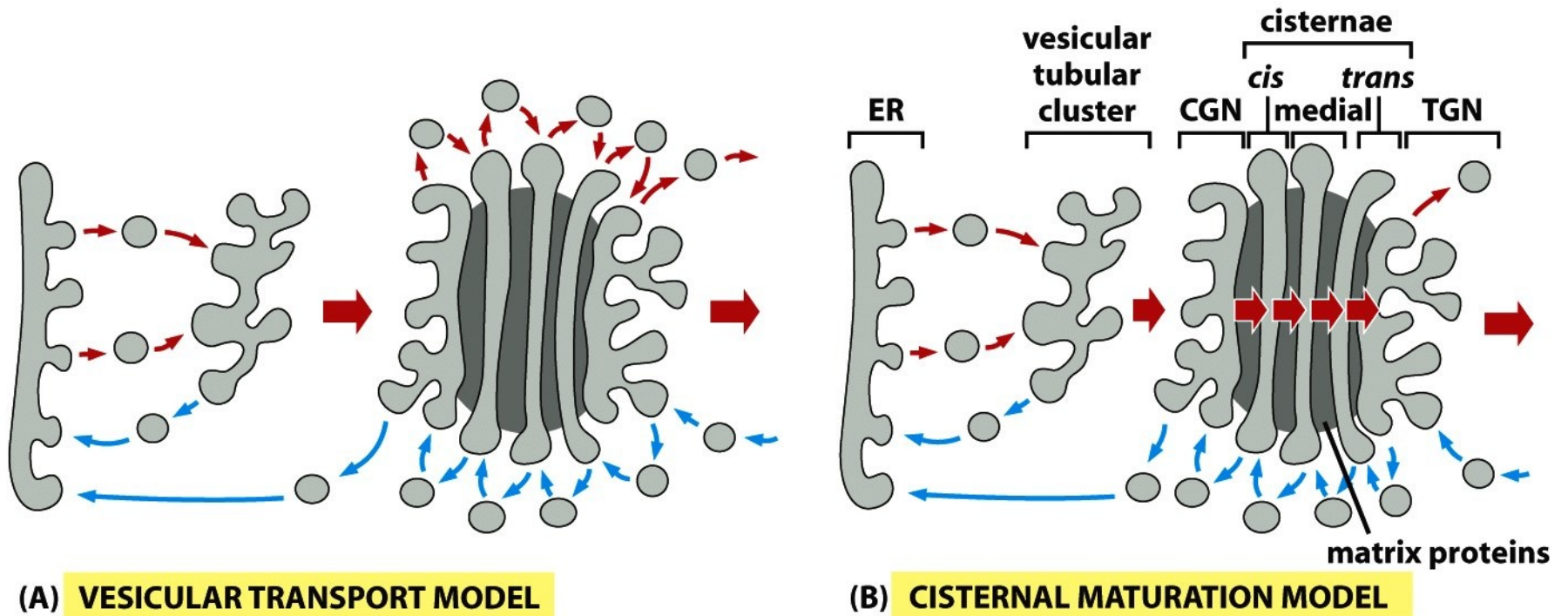
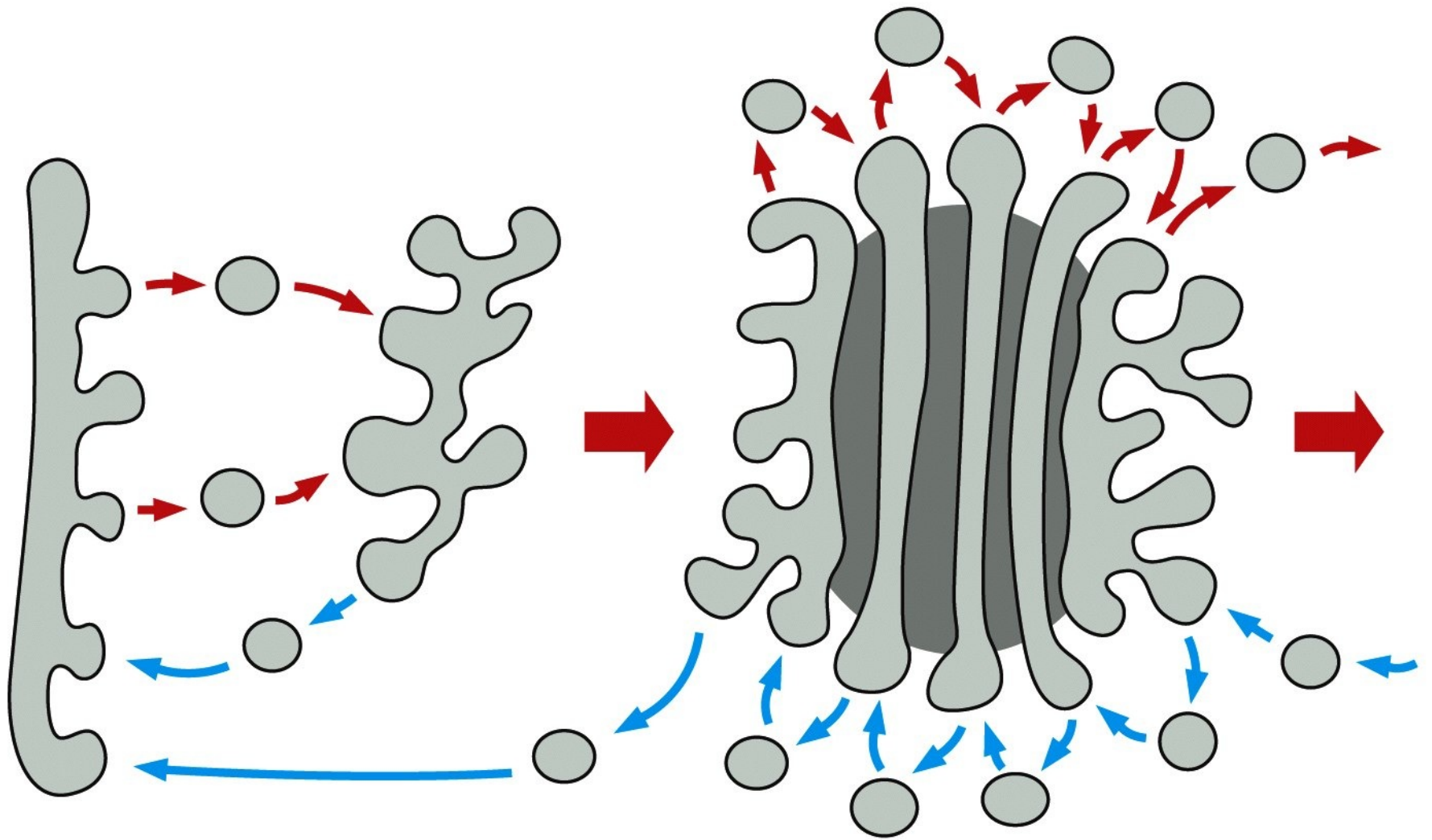
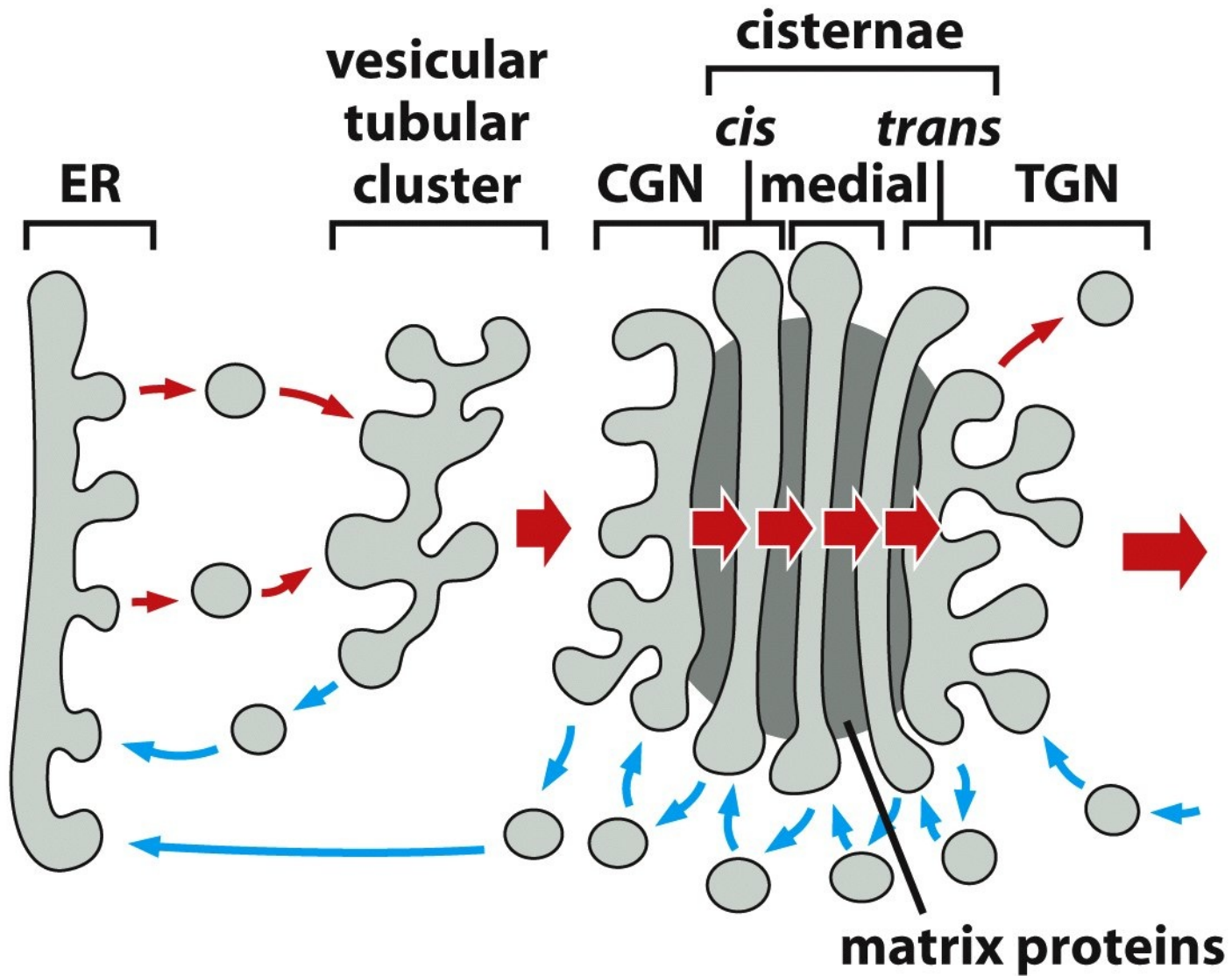


Figure 13-35 *Molecular Biology of the Cell* (© Garland Science 2008)

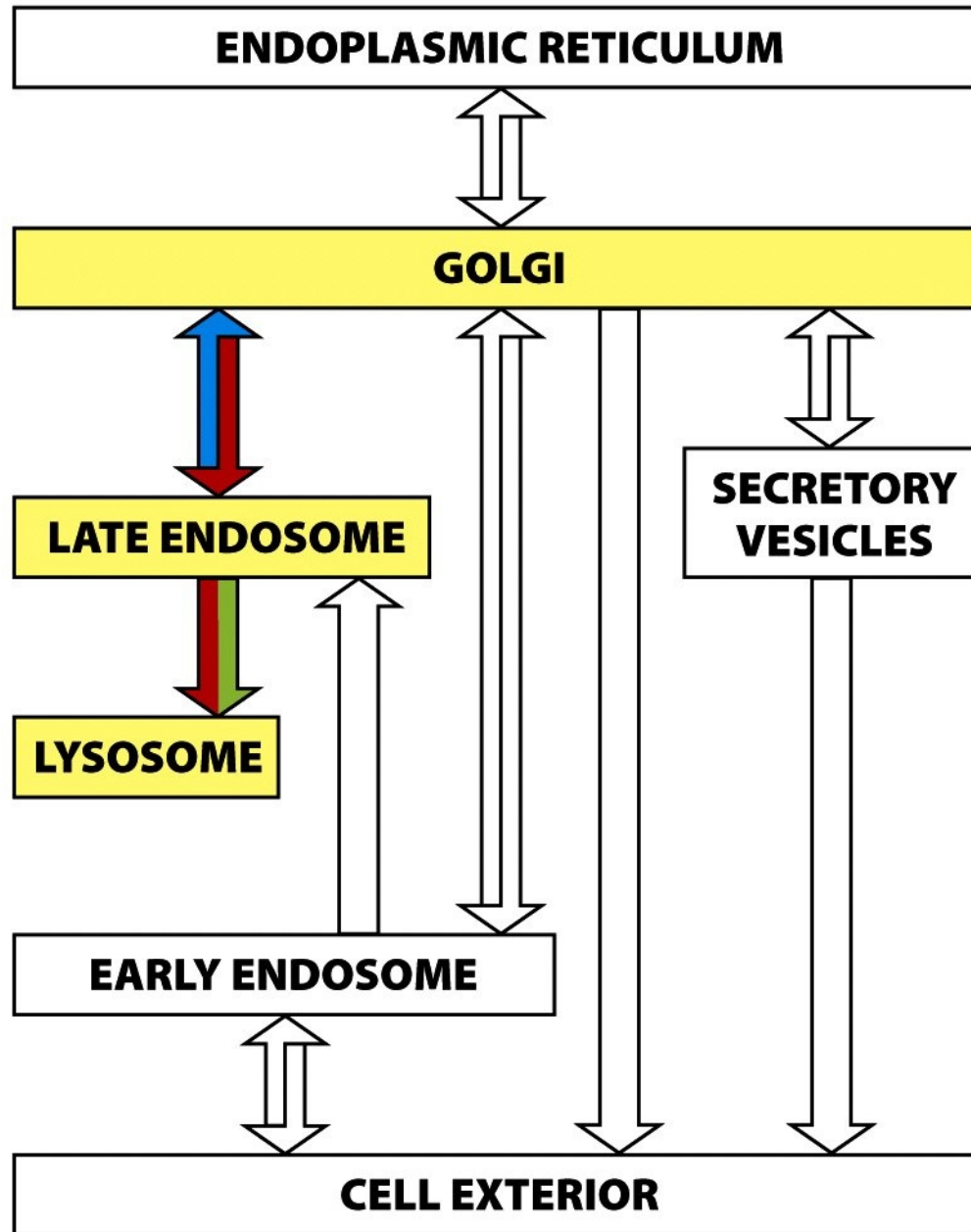


VESICULAR TRANSPORT MODEL



CISTERNAL MATURATION MODEL

Figure 13-35b *Molecular Biology of the Cell* (© Garland Science 2008)



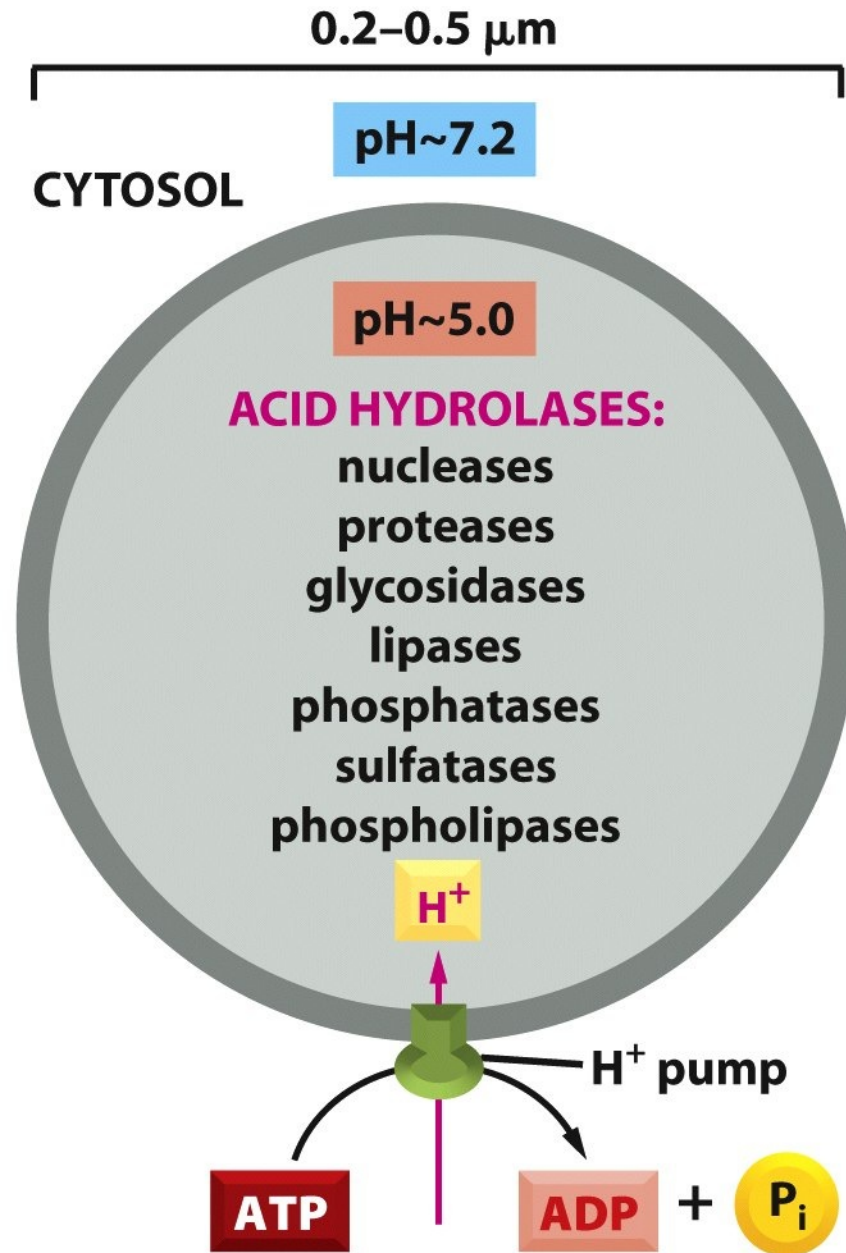
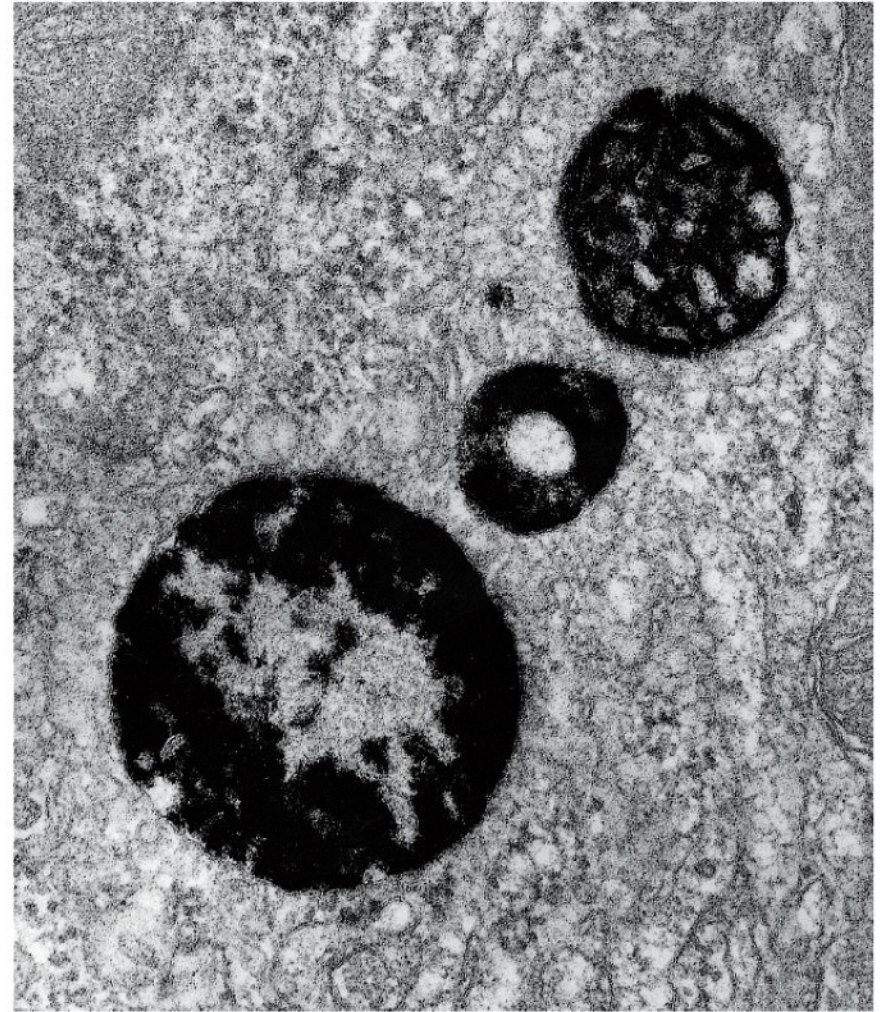
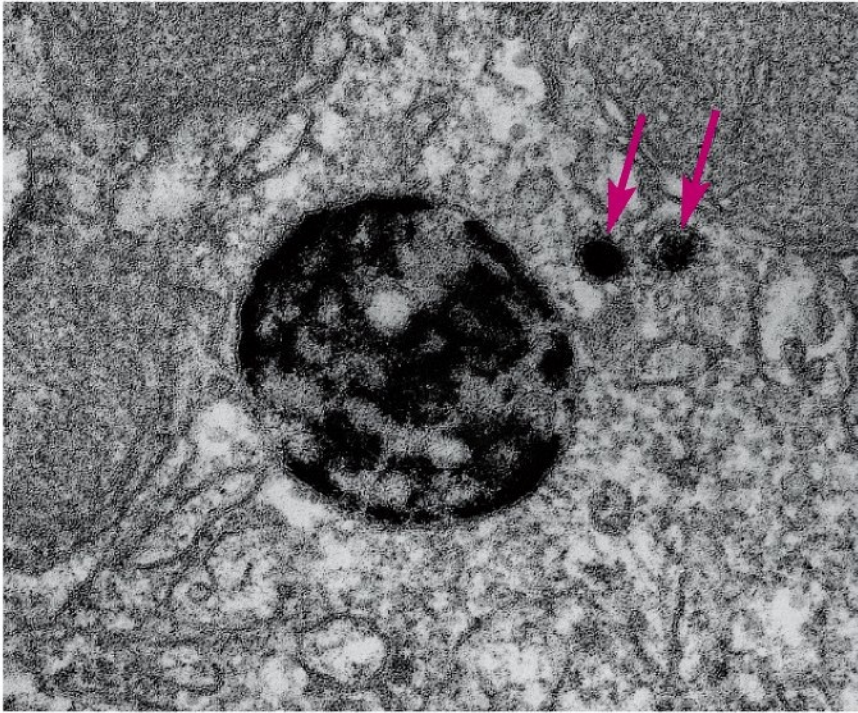
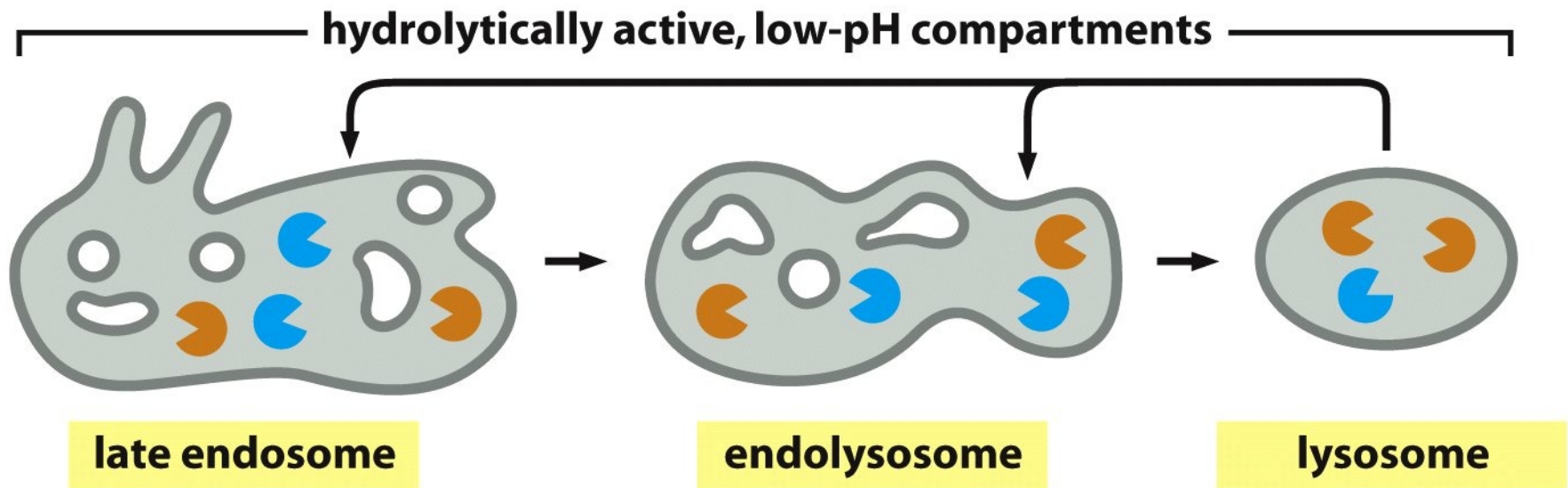


Figure 13-36 *Molecular Biology of the Cell* (© Garland Science 2008)



┌
└
200 nm

Figure 13-37 *Molecular Biology of the Cell* (© Garland Science 2008)



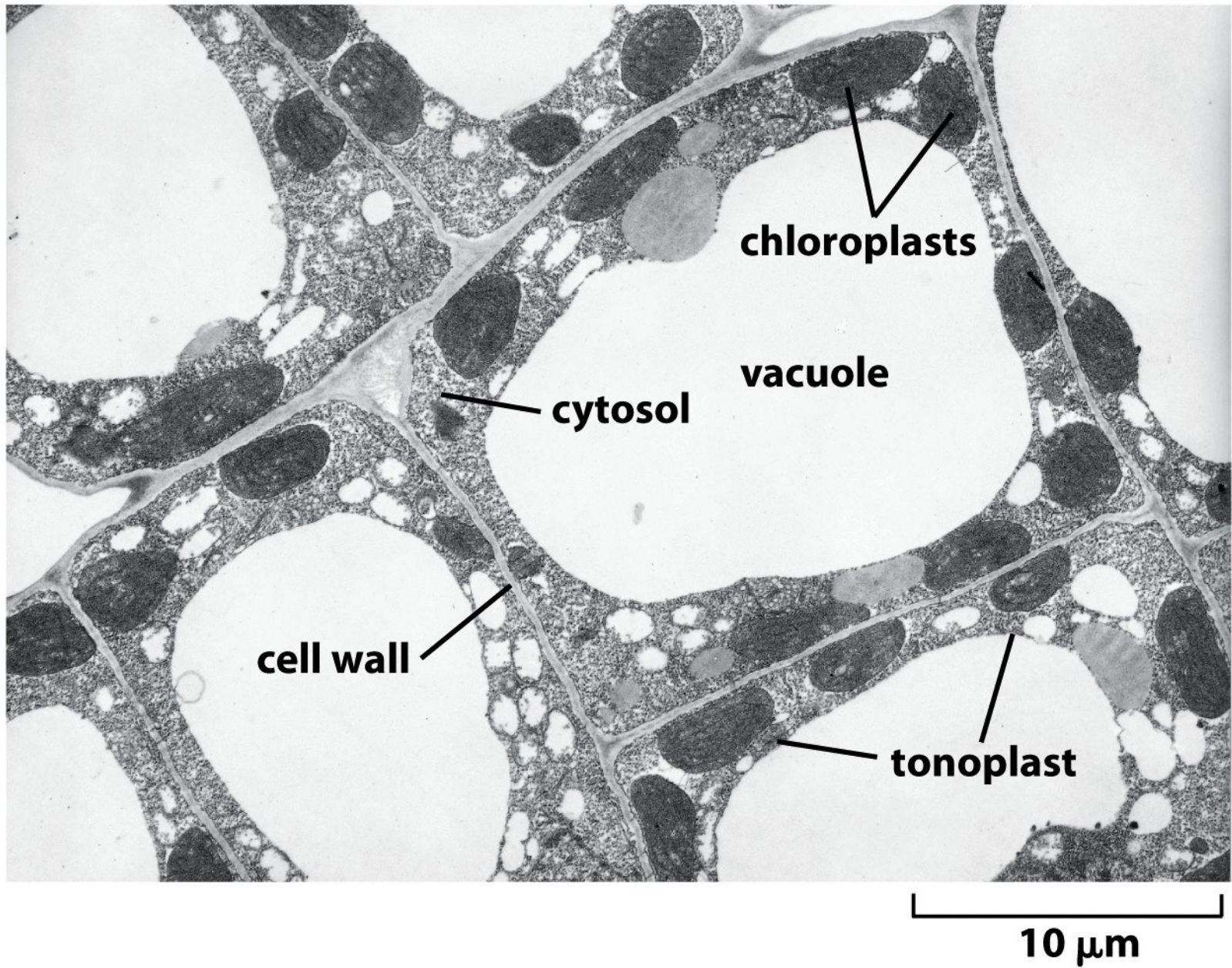


Figure 13-39 *Molecular Biology of the Cell* (© Garland Science 2008)

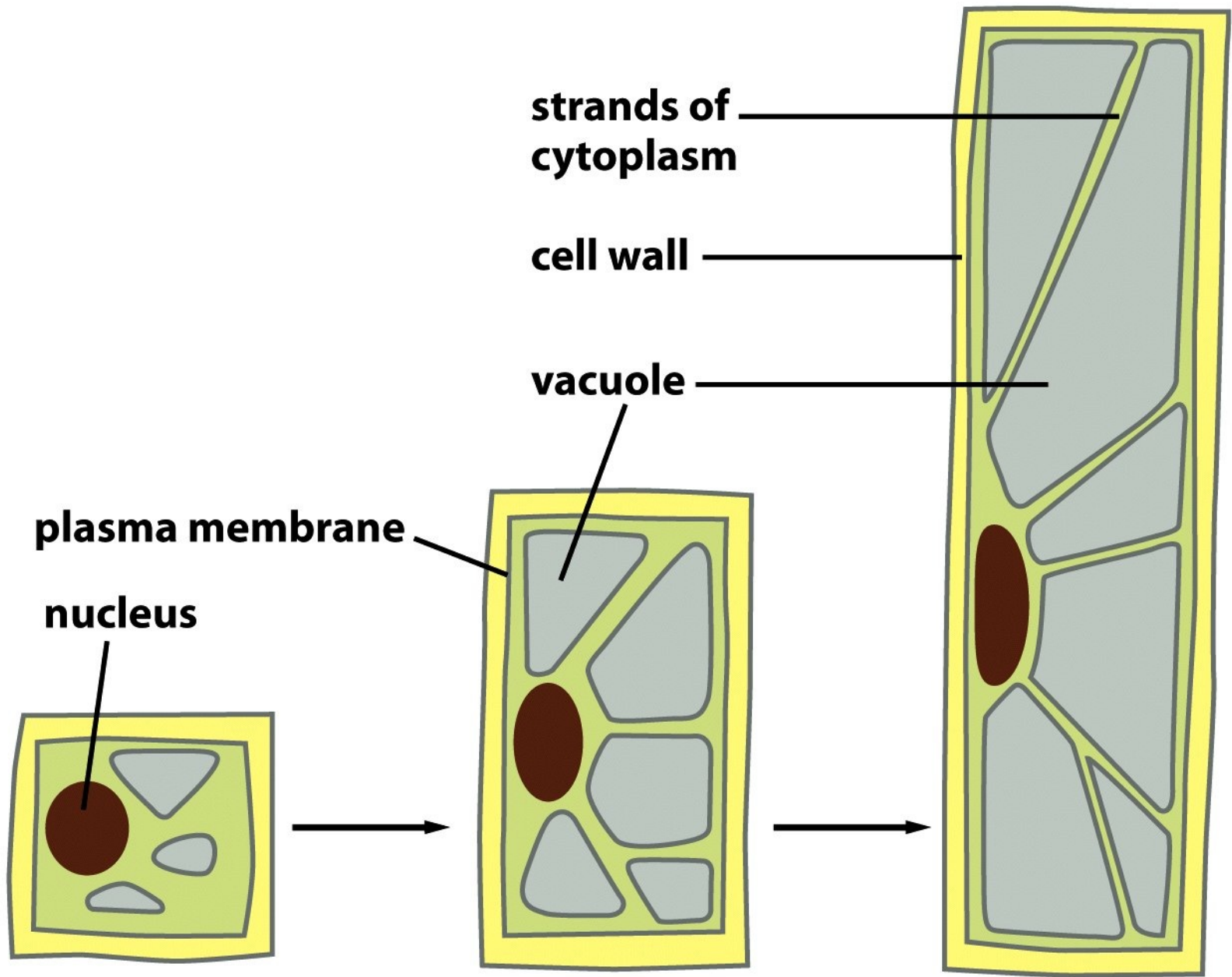


Figure 13-40 *Molecular Biology of the Cell* (© Garland Science 2008)

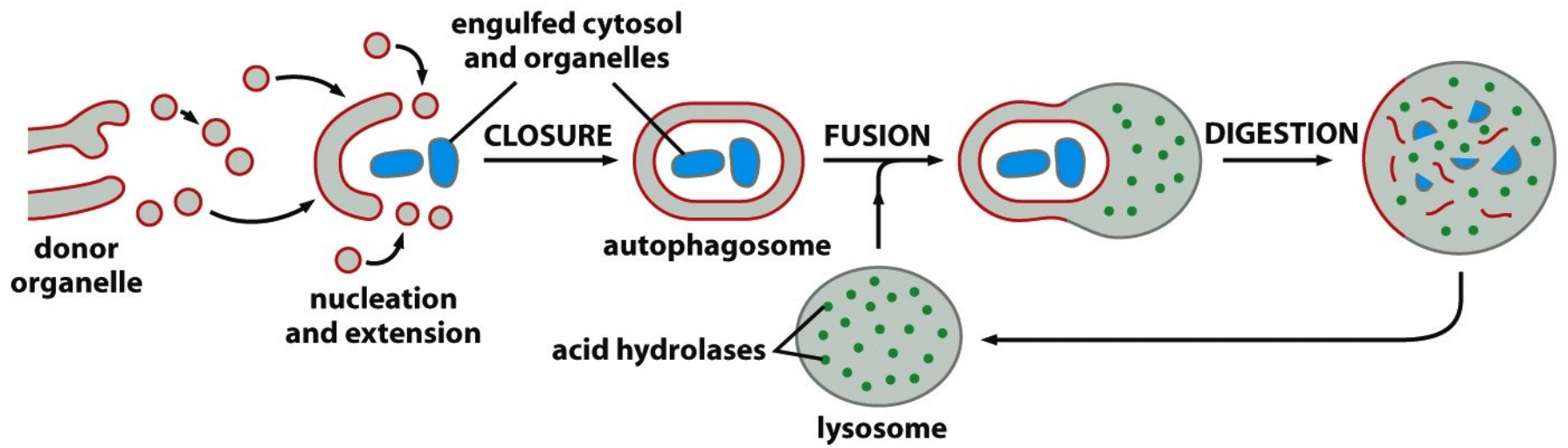


Figure 13-41 *Molecular Biology of the Cell* (© Garland Science 2008)

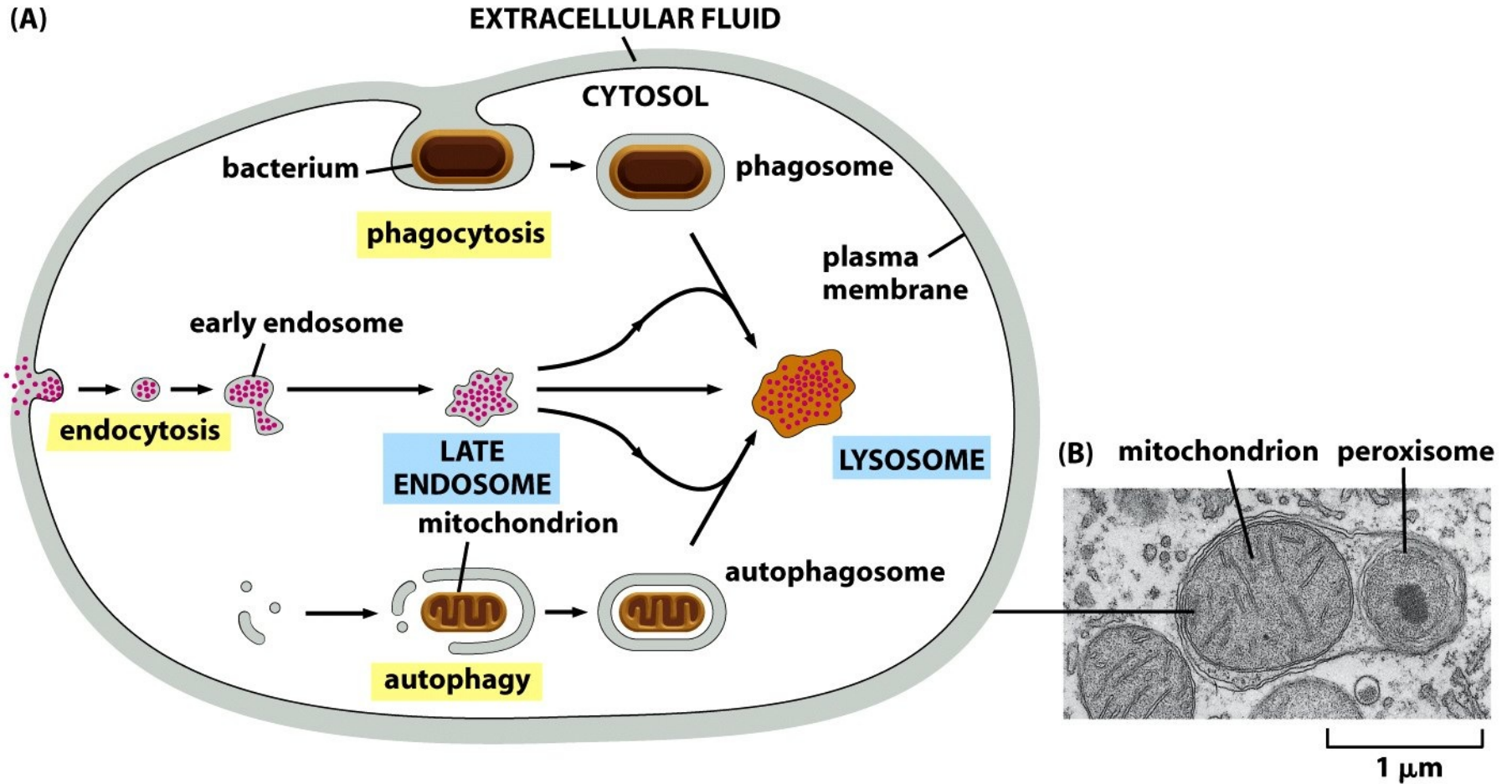


Figure 13-42 *Molecular Biology of the Cell* (© Garland Science 2008)

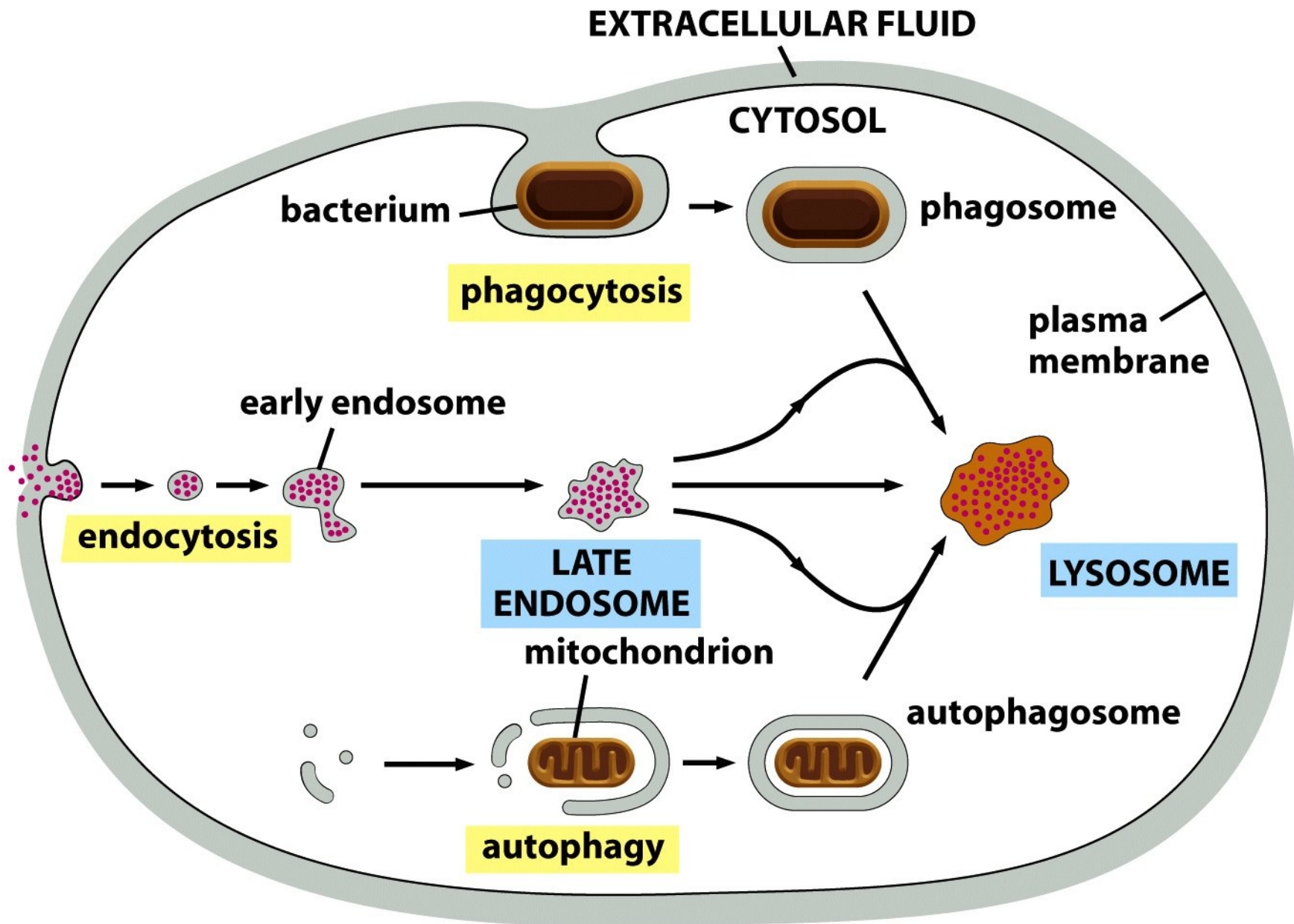
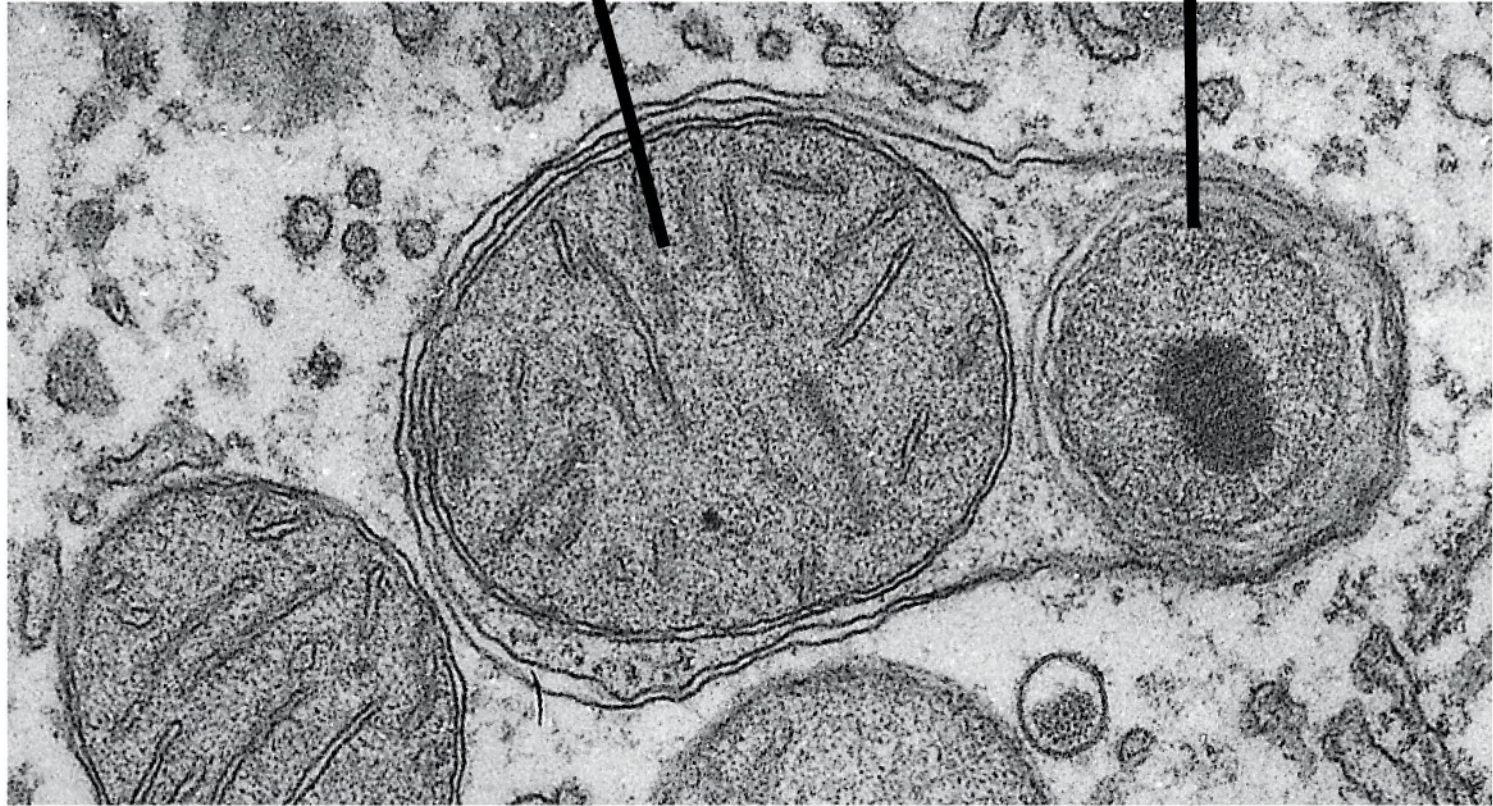


Figure 13-42a *Molecular Biology of the Cell* (© Garland Science 2008)

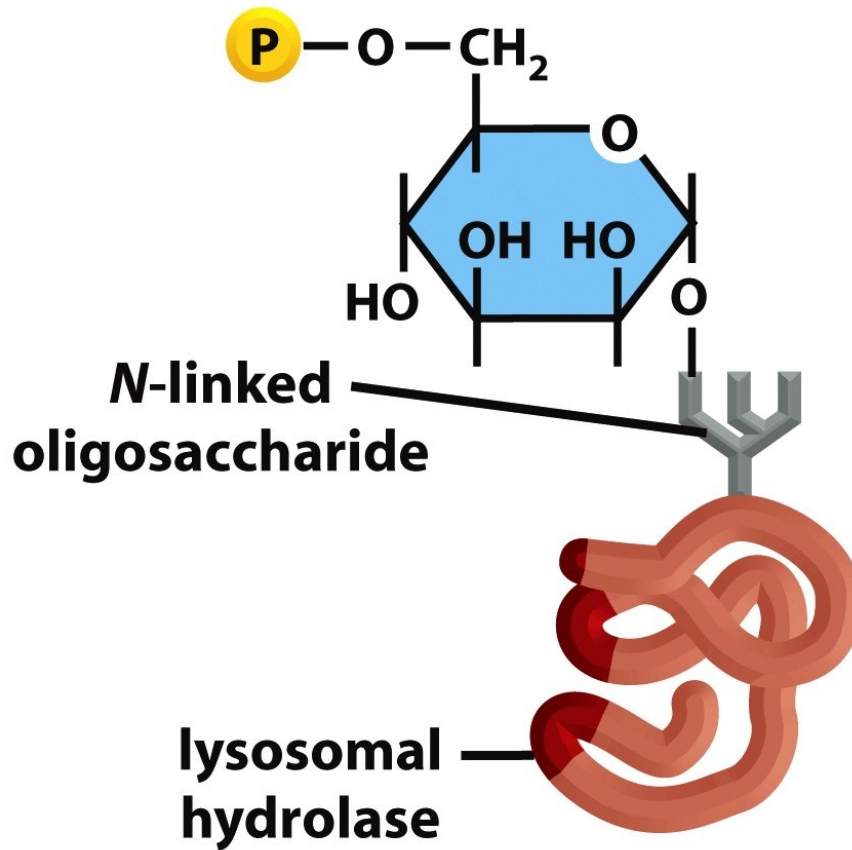
mitochondrion

peroxisome



1 μm

mannose 6-phosphate (M6P)



M6P Lizozomal enzimlere takılır

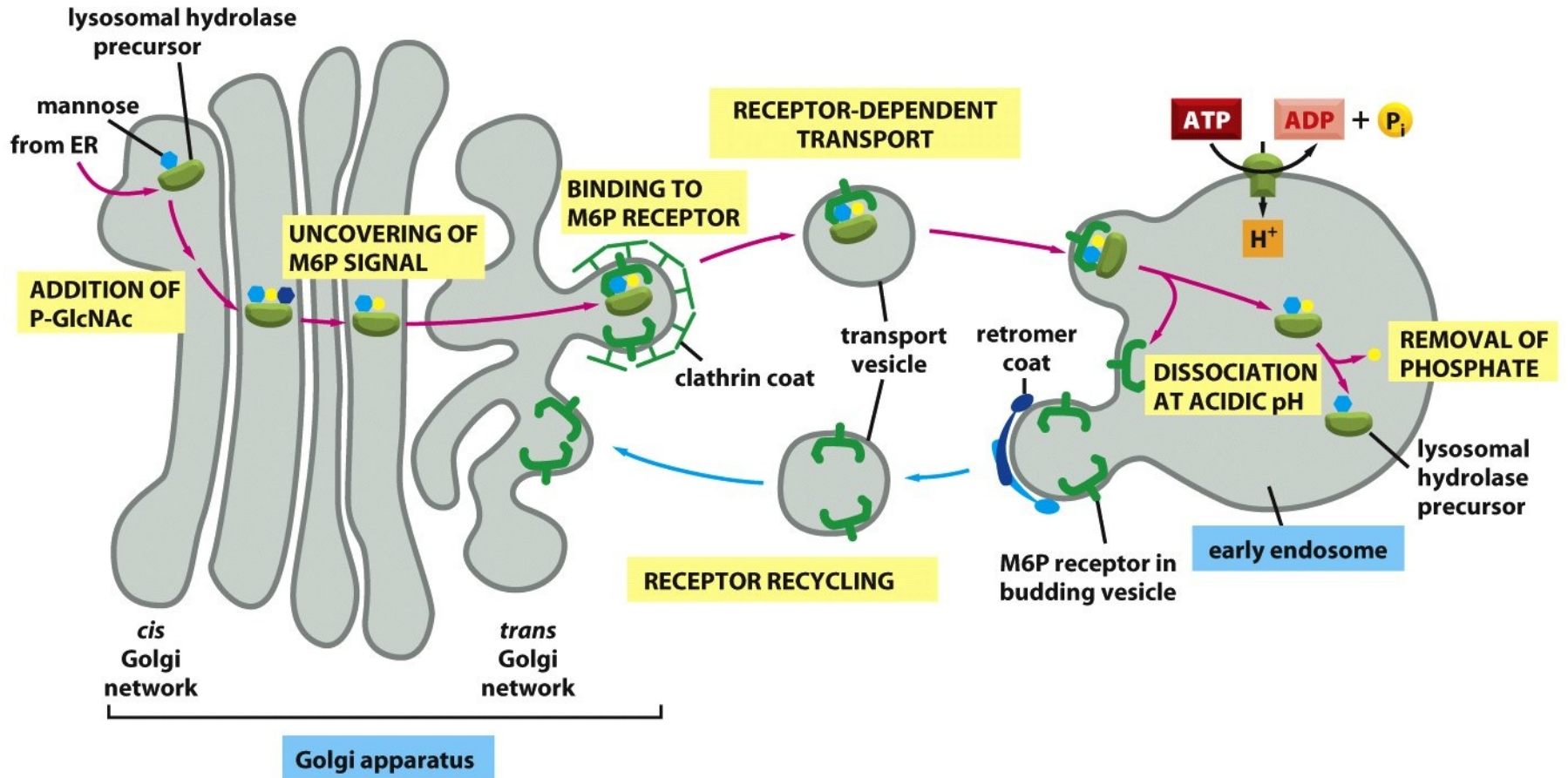
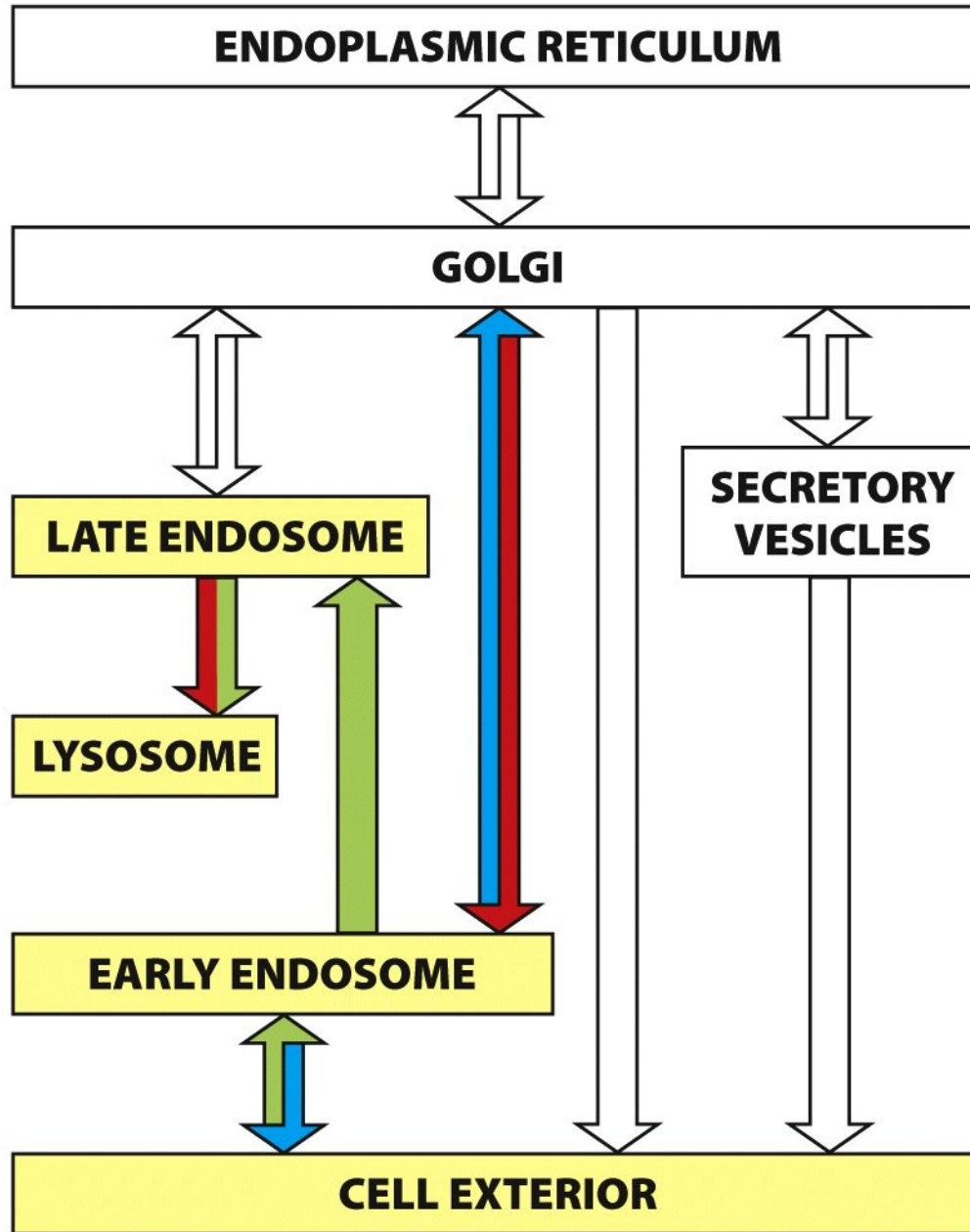
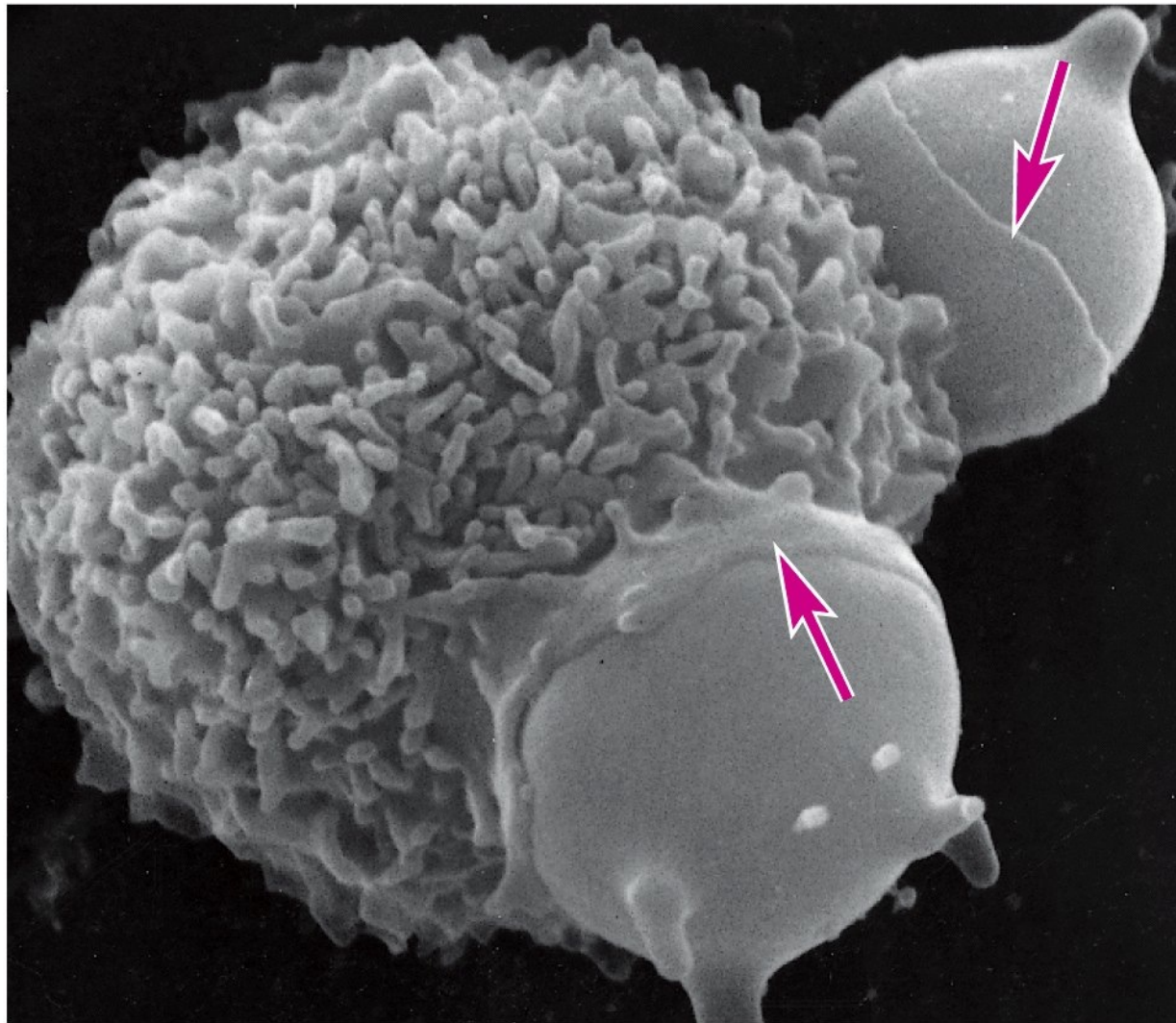


Figure 13-44 *Molecular Biology of the Cell* (© Garland Science 2008)





5 μm

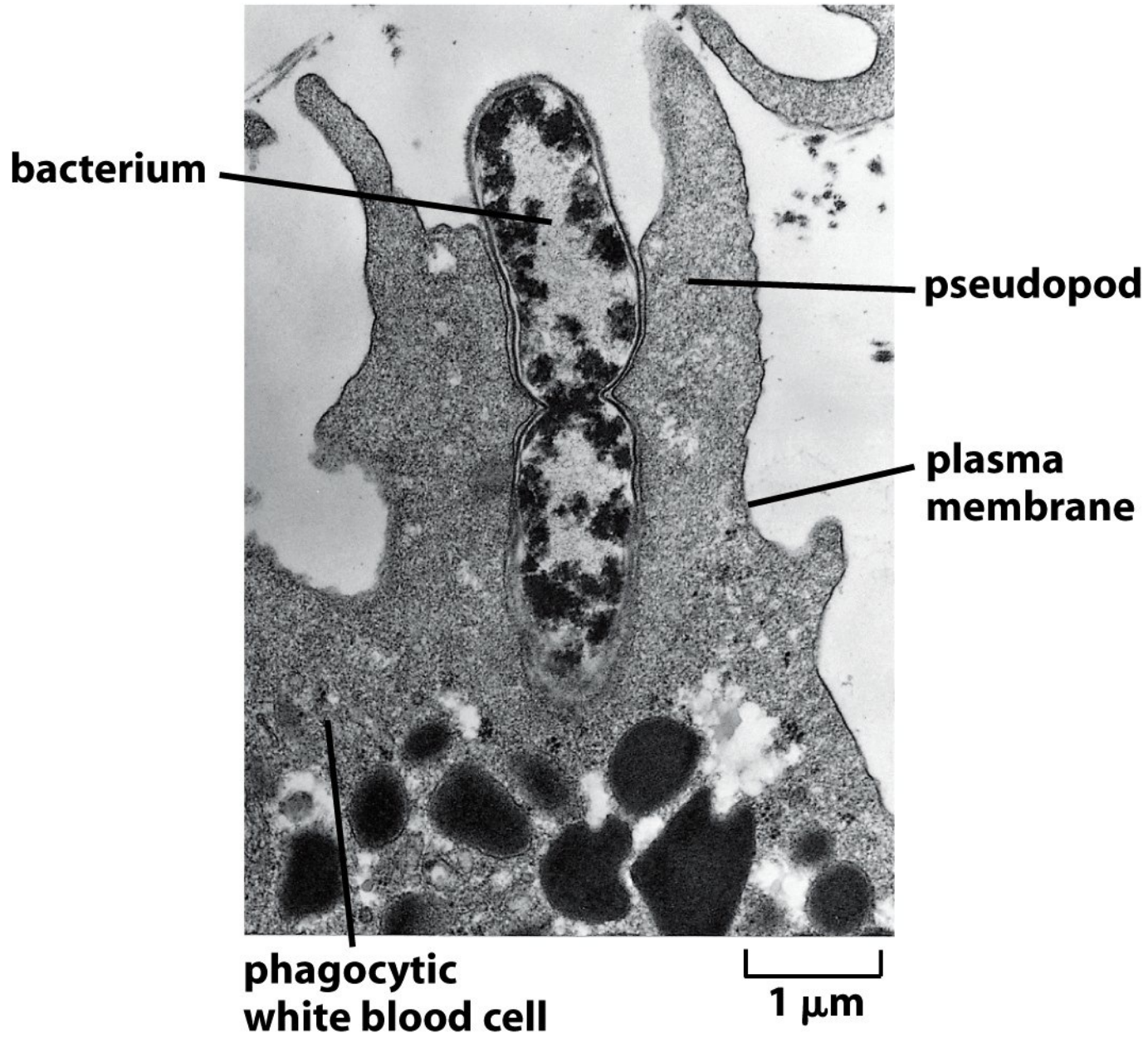


Figure 13-47a *Molecular Biology of the Cell* (© Garland Science 2008)

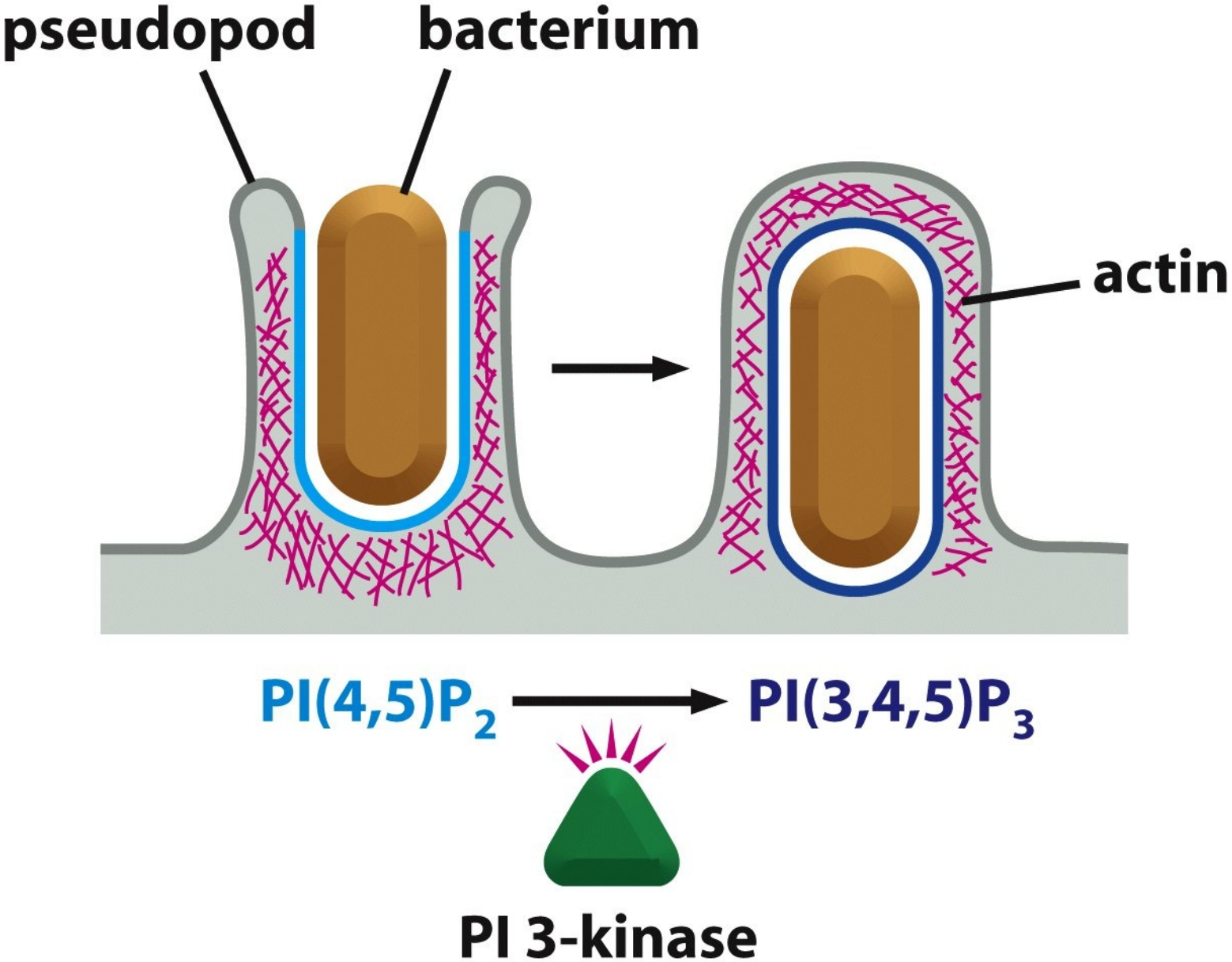


Figure 13-47b *Molecular Biology of the Cell* (© Garland Science 2008)

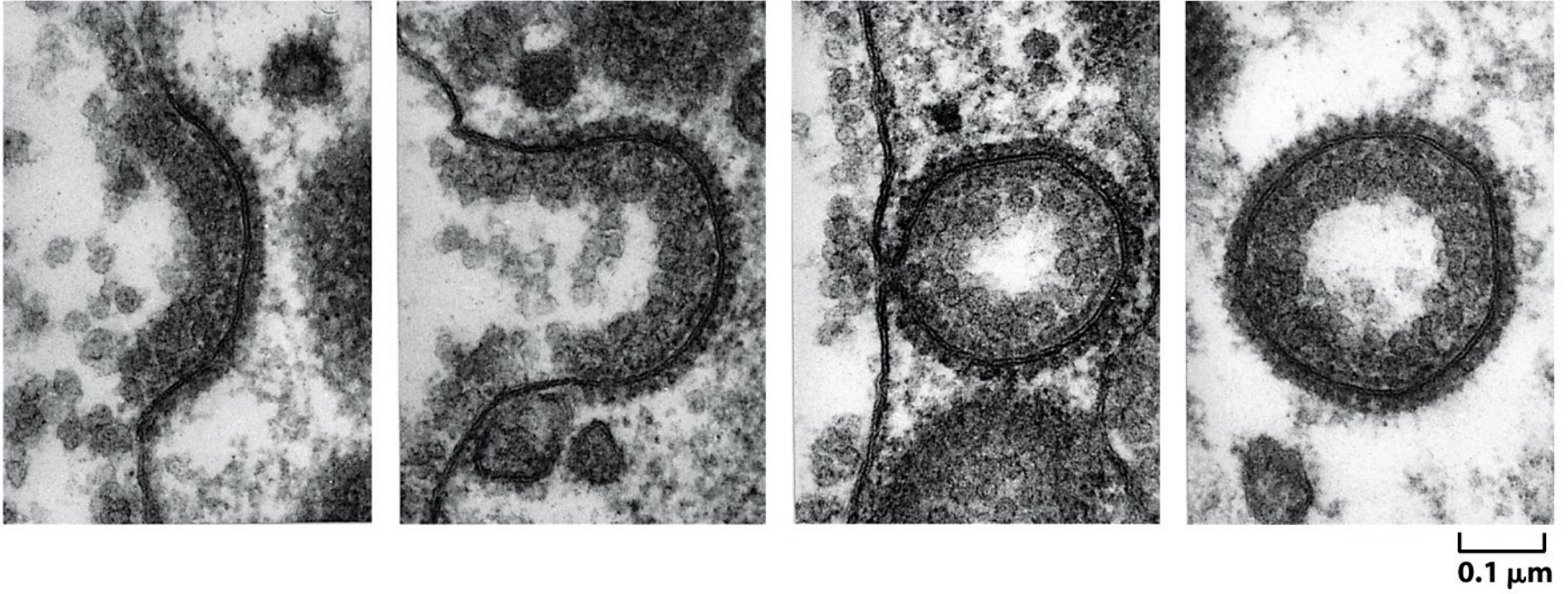
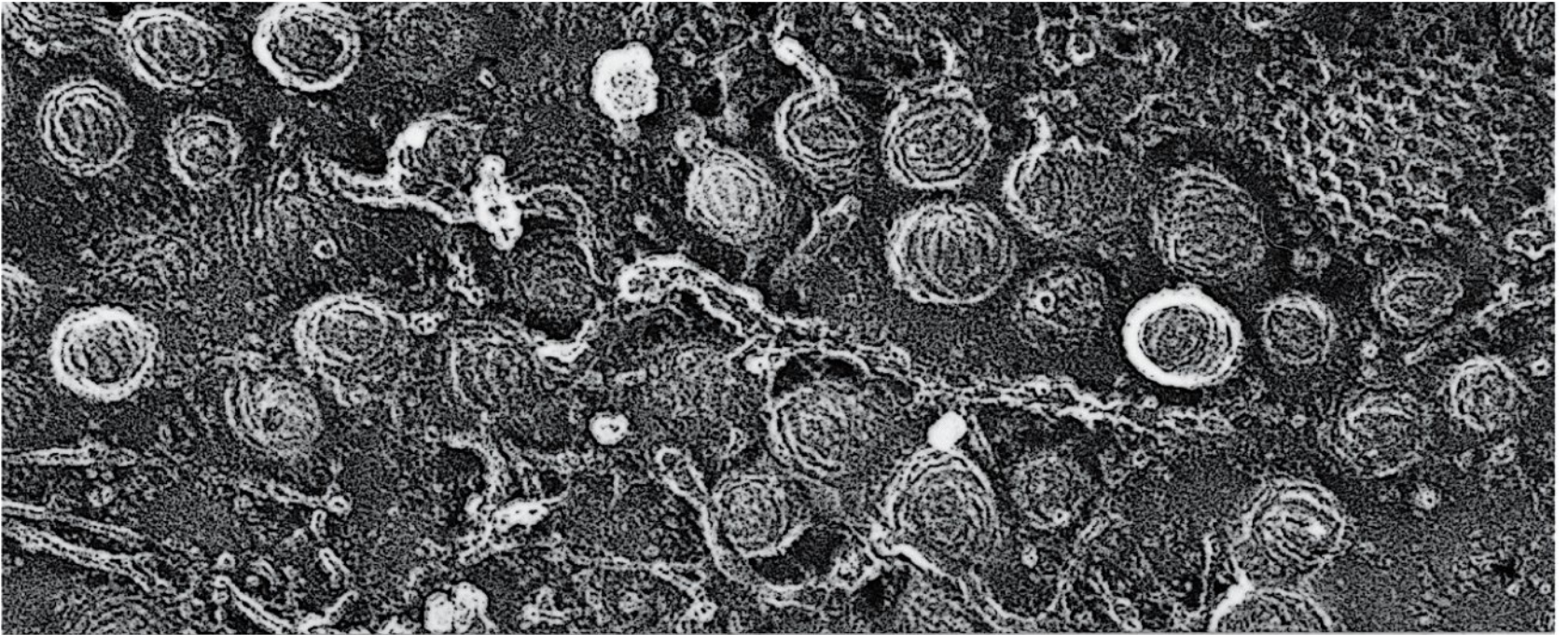


Figure 13-48 *Molecular Biology of the Cell* (© Garland Science 2008)

(A)



(B)



0.2 μm

Figure 13-49 *Molecular Biology of the Cell* (© Garland Science 2008)

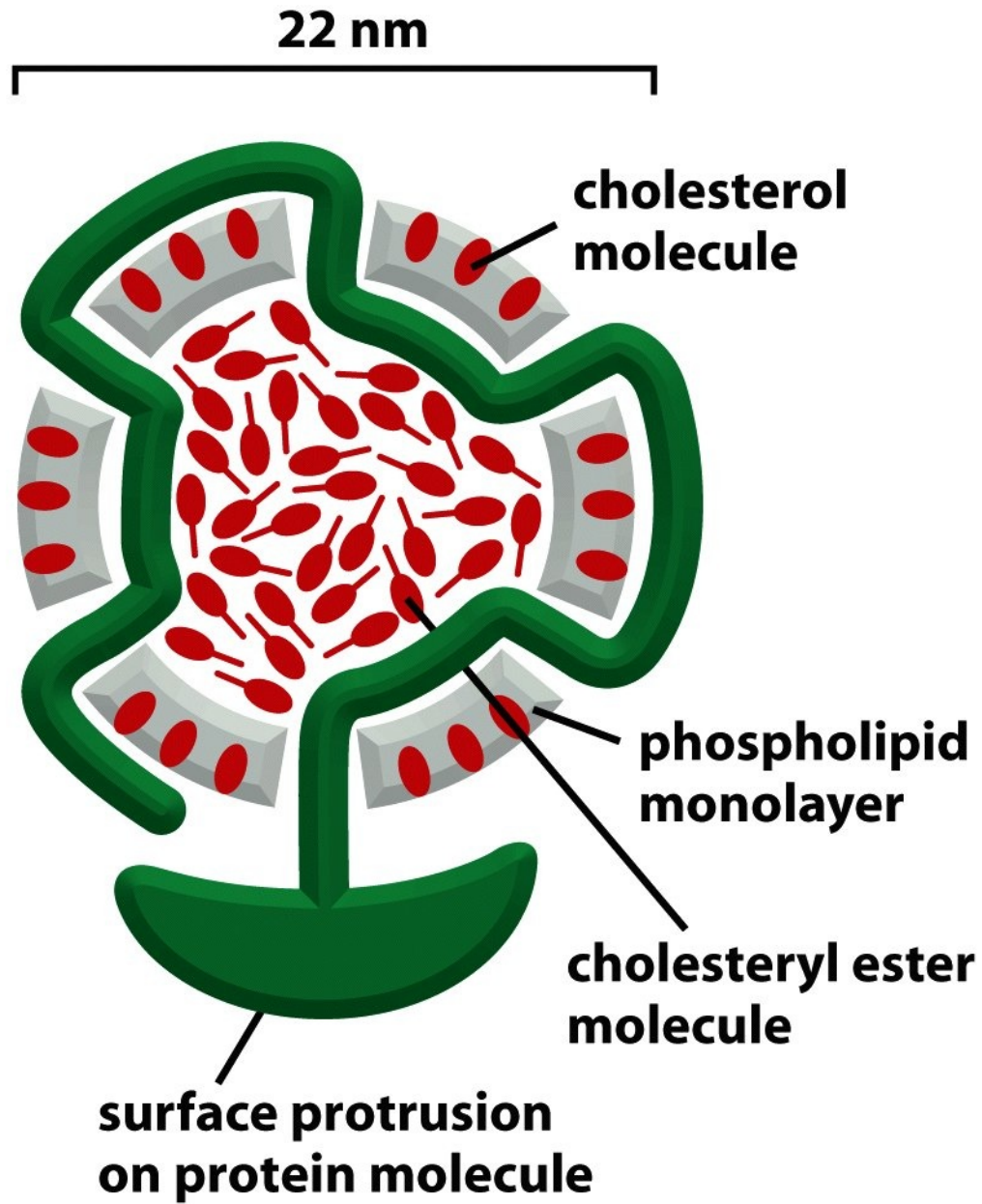


Figure 13-50 *Molecular Biology of the Cell* (© Garland Science 2008)

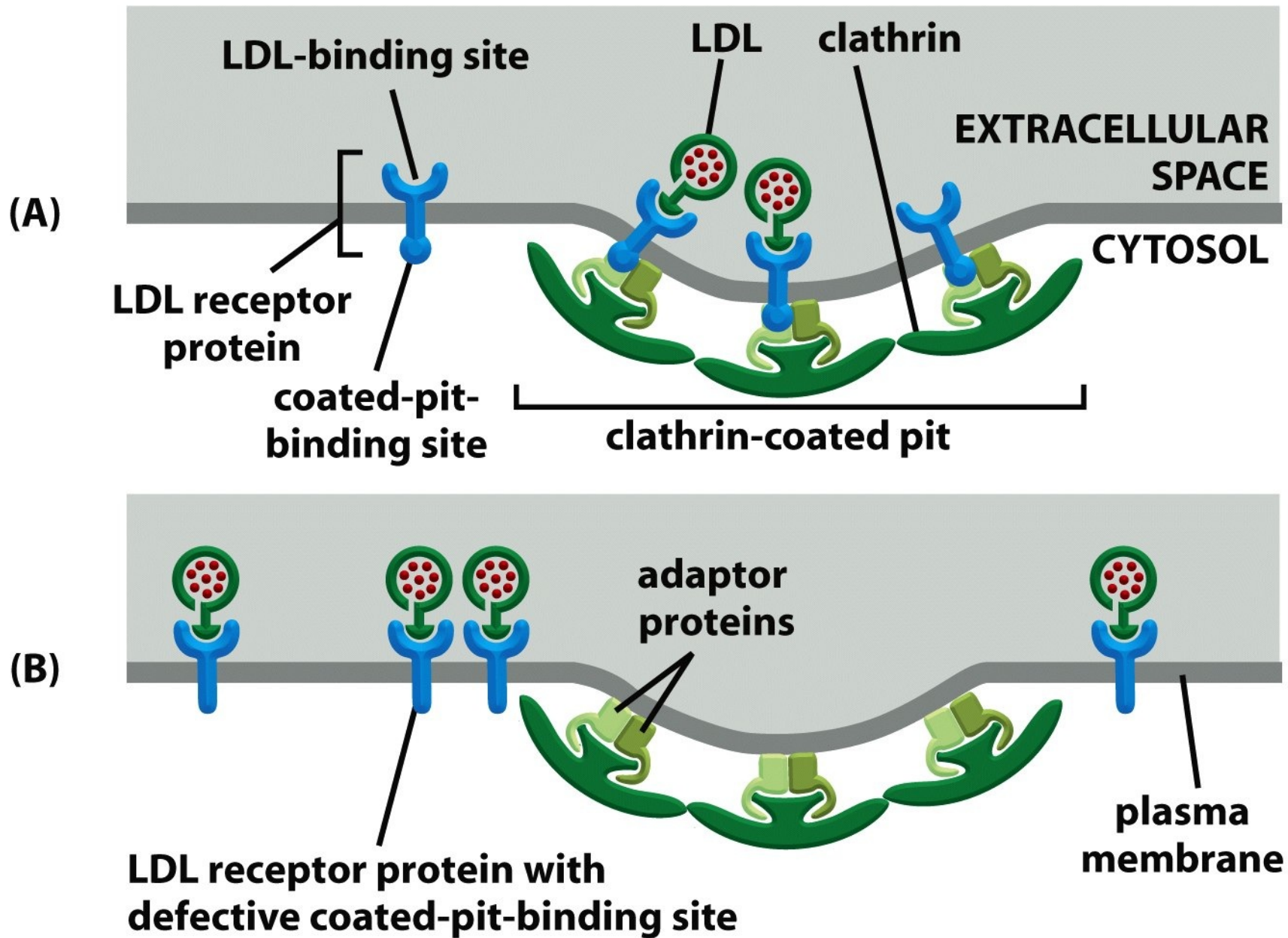


Figure 13-51 *Molecular Biology of the Cell* (© Garland Science 2008)

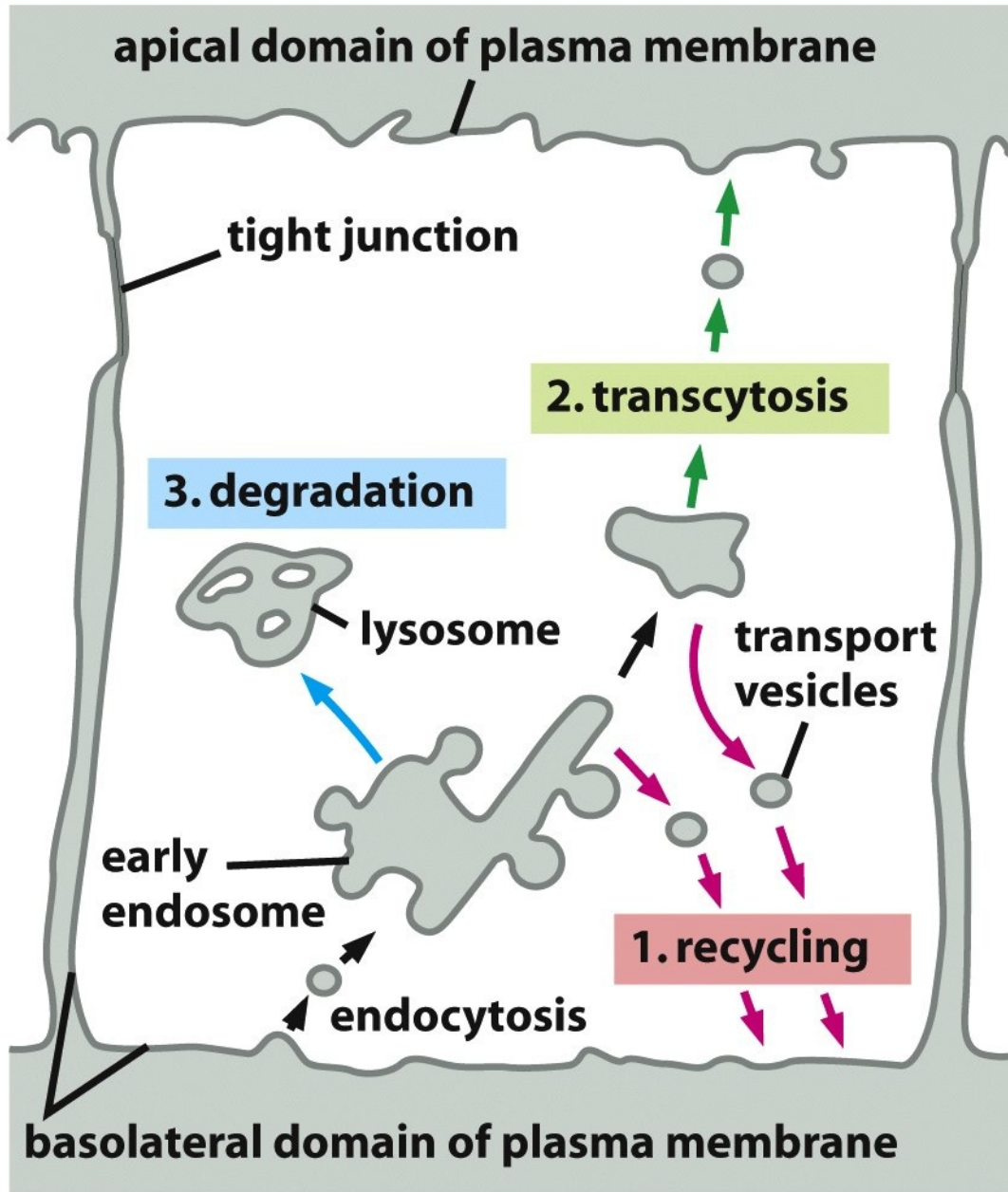


Figure 13-52 *Molecular Biology of the Cell* (© Garland Science 2008)

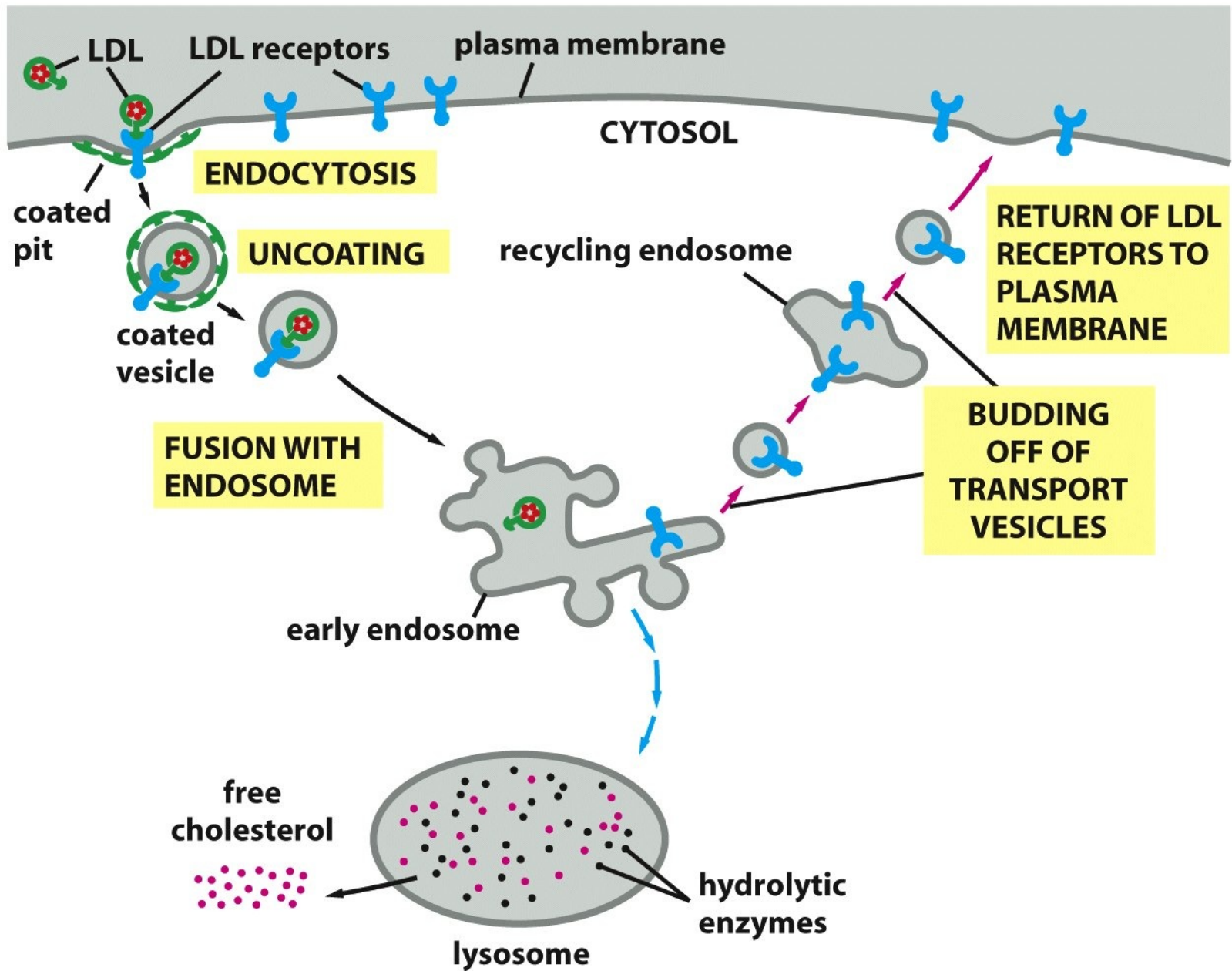


Figure 13-53 *Molecular Biology of the Cell* (© Garland Science 2008)

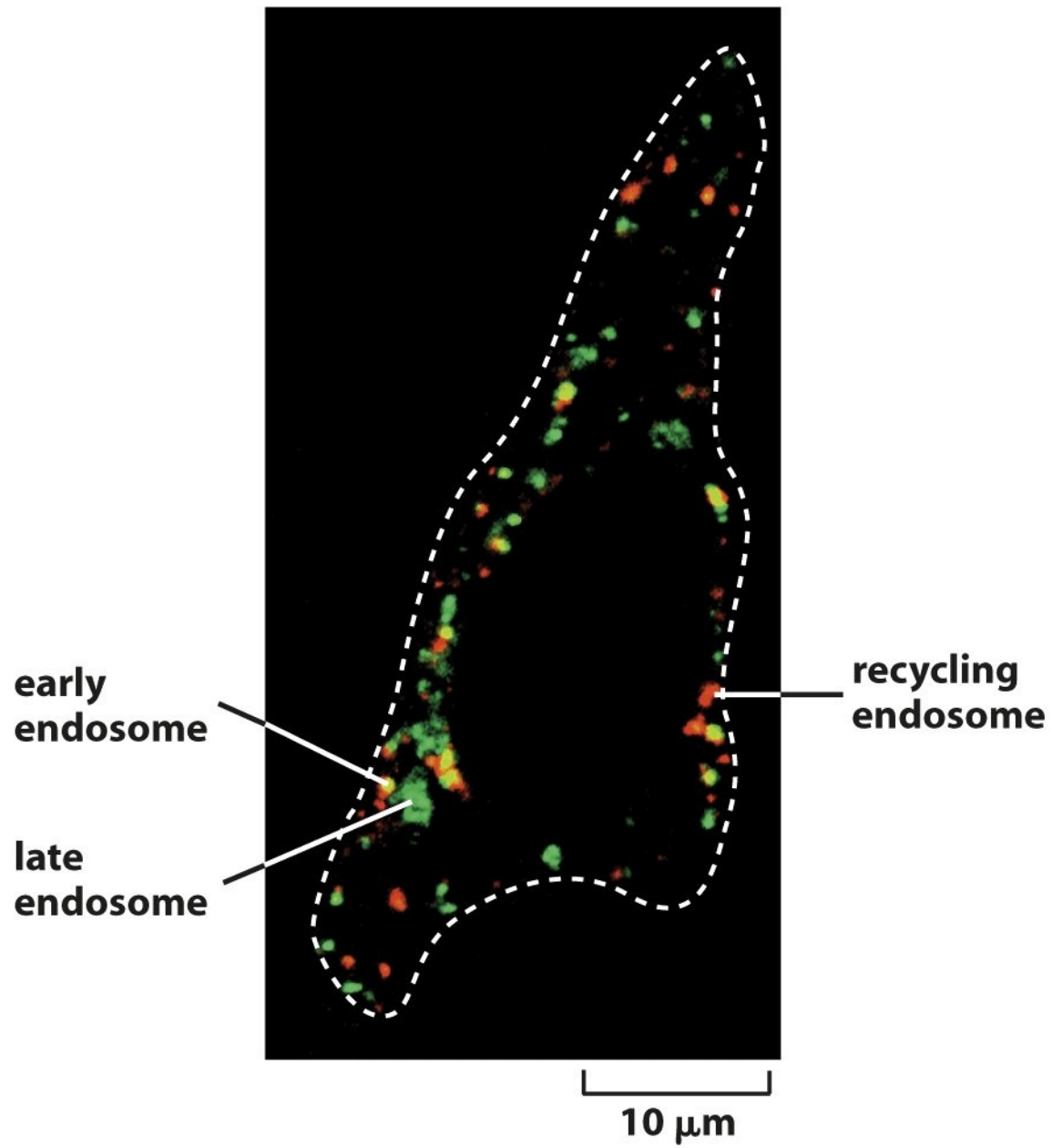
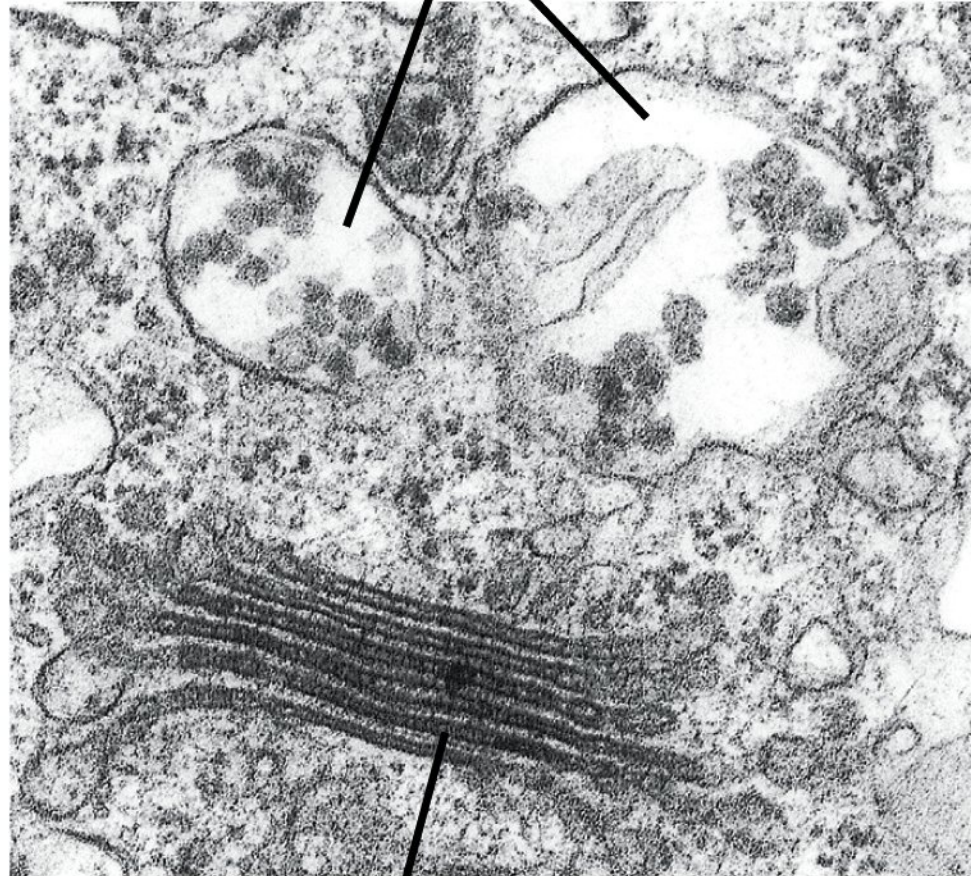


Figure 13-54 *Molecular Biology of the Cell* (© Garland Science 2008)

multivesicular bodies



0.5 μm

Golgi stack

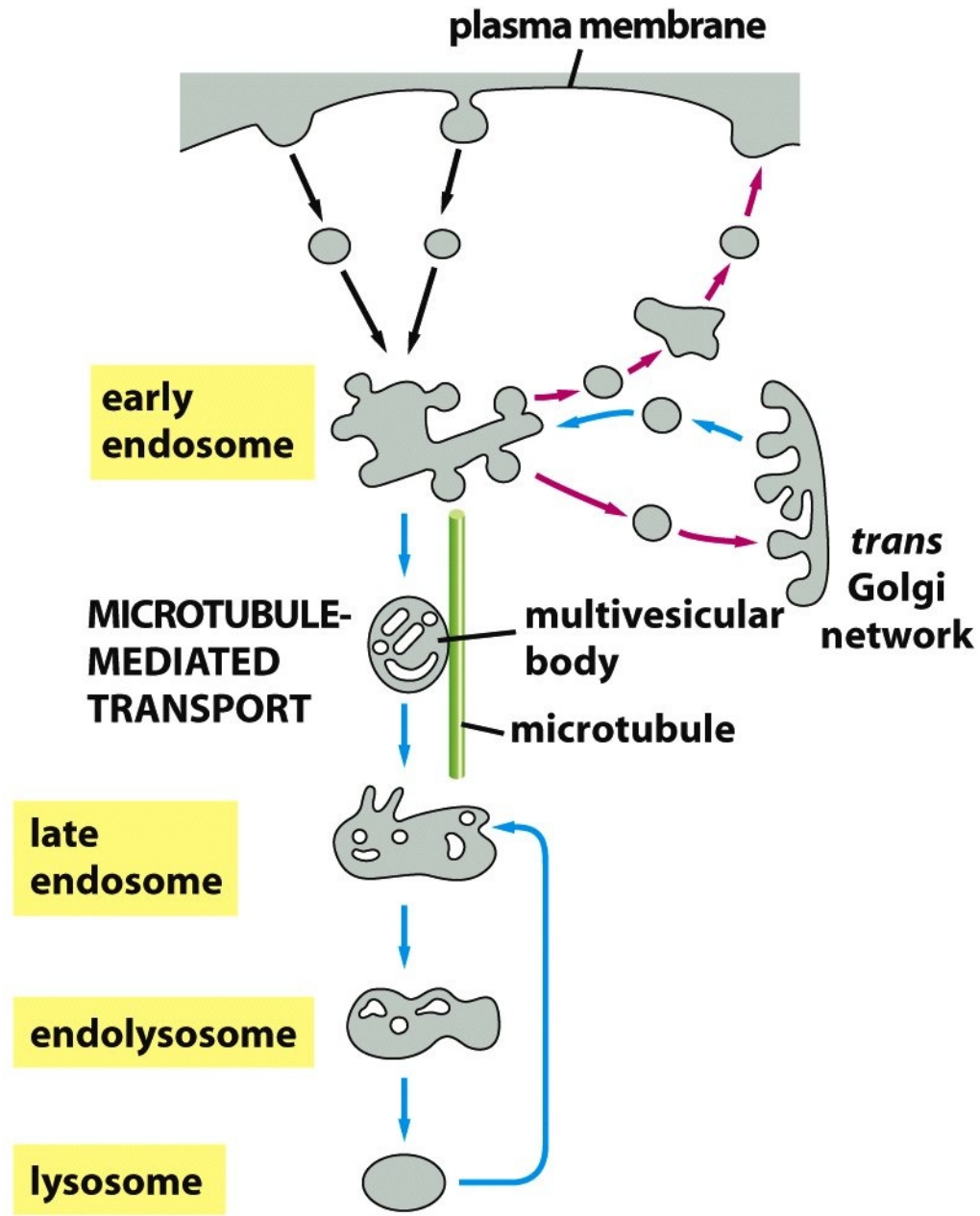


Figure 13-56 *Molecular Biology of the Cell* (© Garland Science 2008)

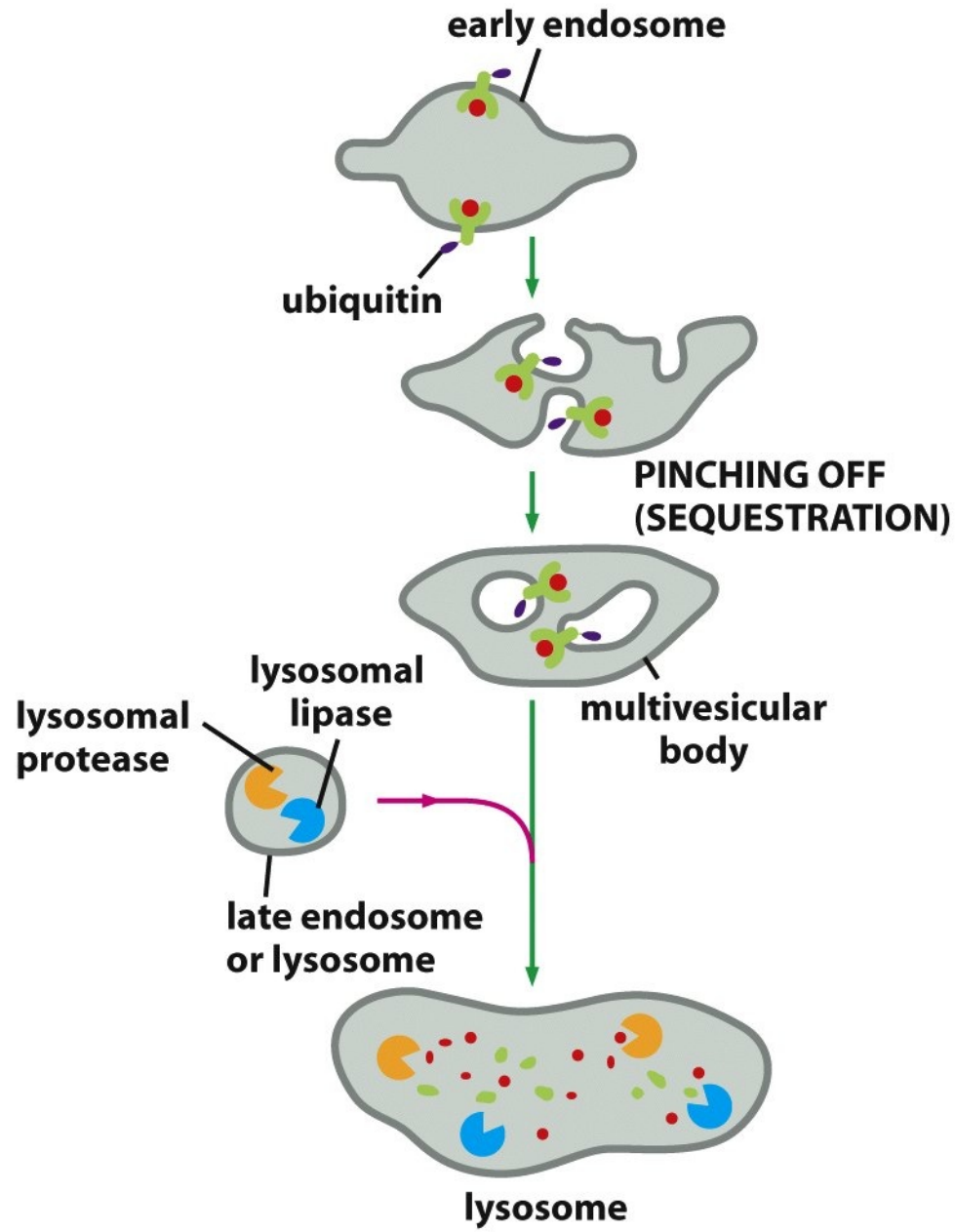


Figure 13-57 *Molecular Biology of the Cell* (© Garland Science 2008)

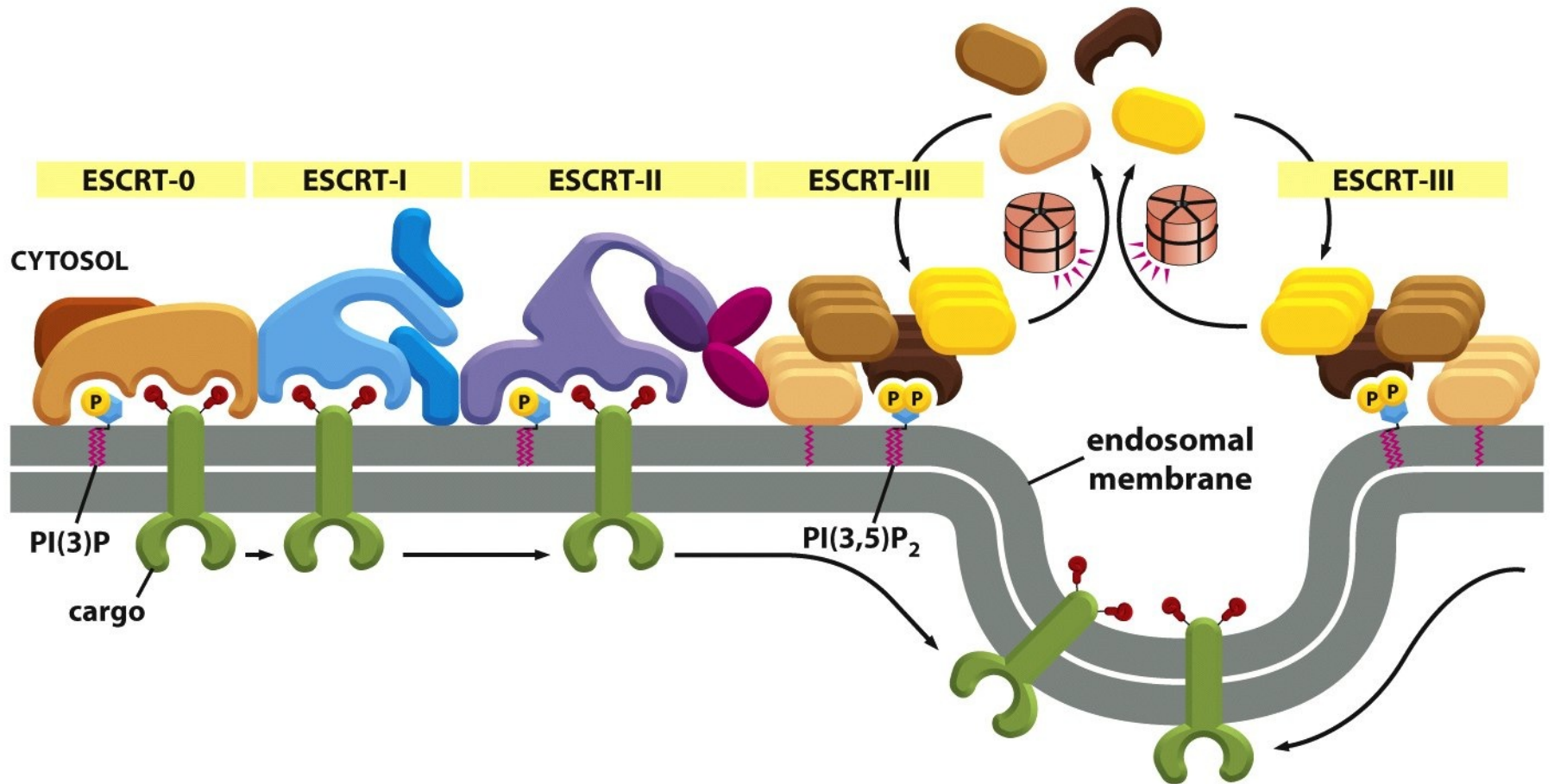


Figure 13-58 *Molecular Biology of the Cell* (© Garland Science 2008)

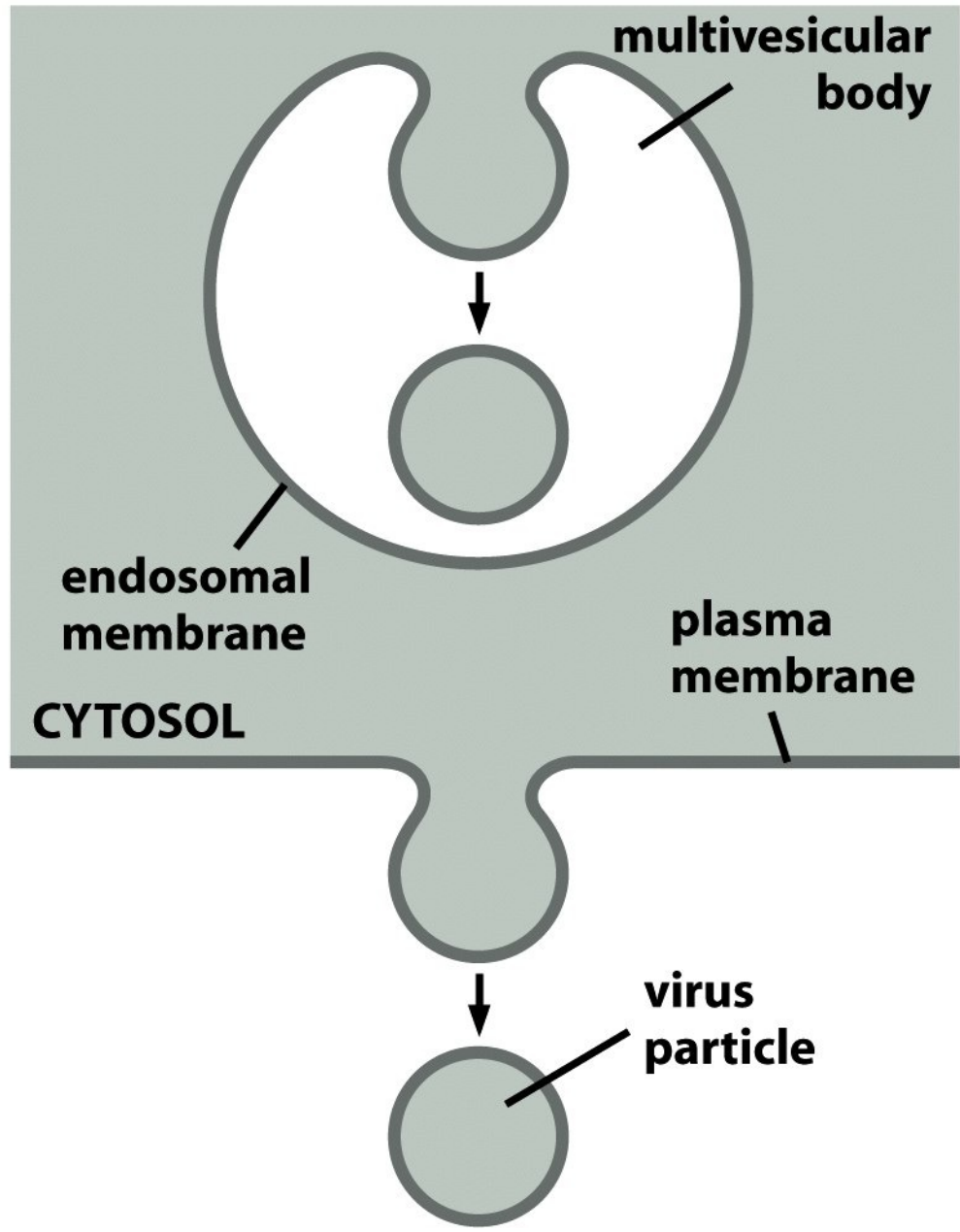


Figure 13-59 *Molecular Biology of the Cell* (© Garland Science 2008)

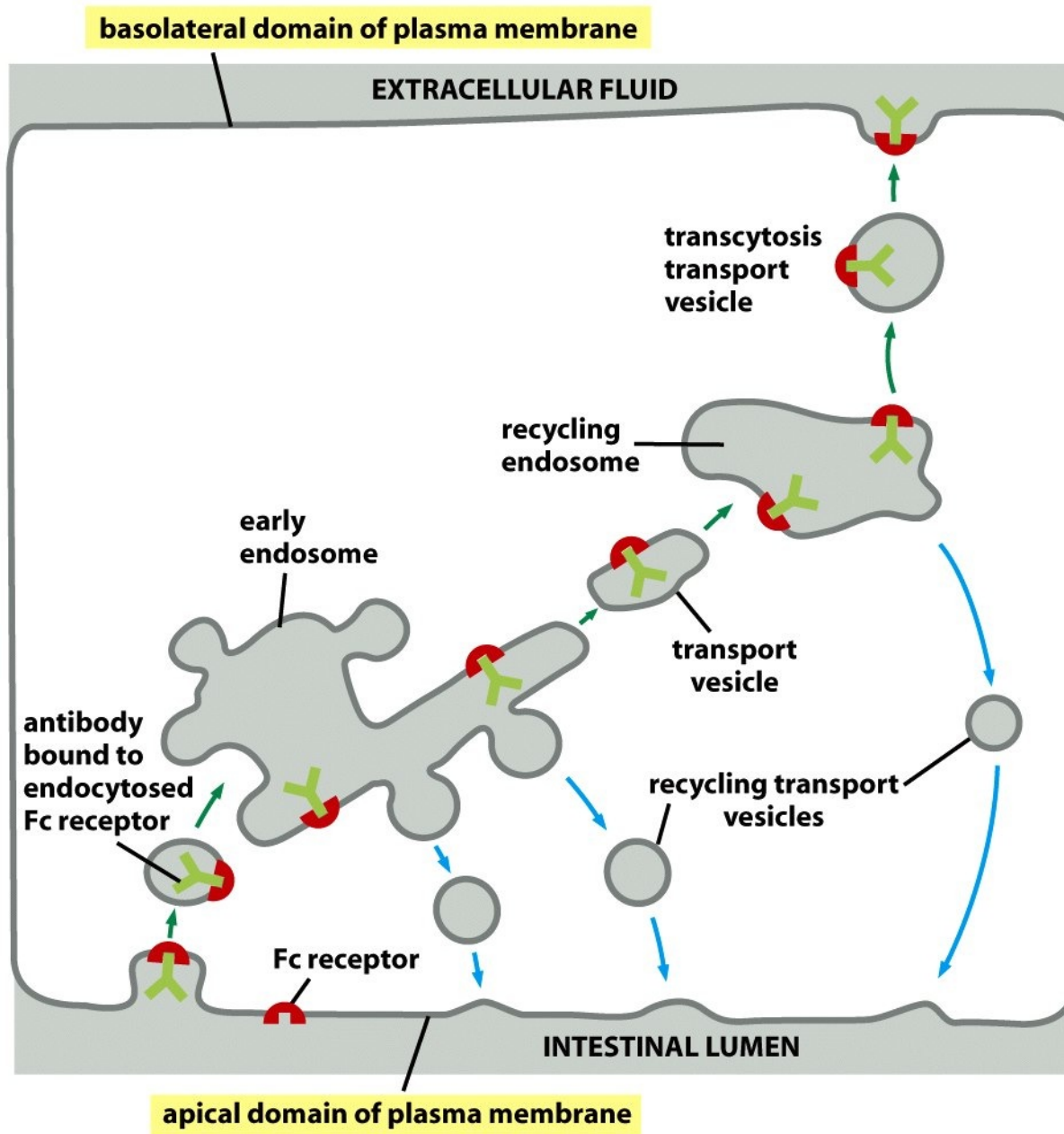
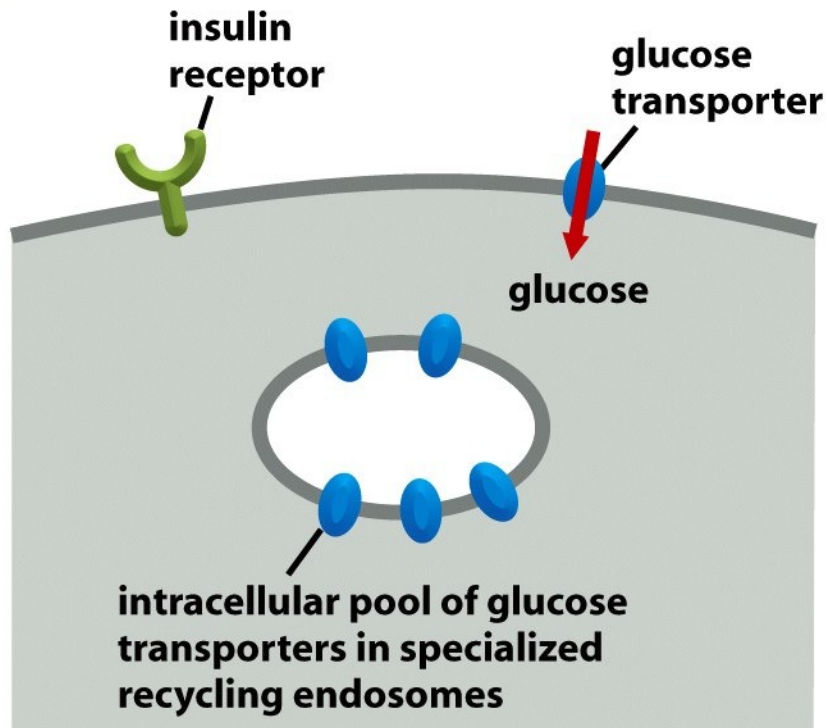


Figure 13-60 *Molecular Biology of the Cell* (© Garland Science 2008)

unstimulated cell



insulin-stimulated cell

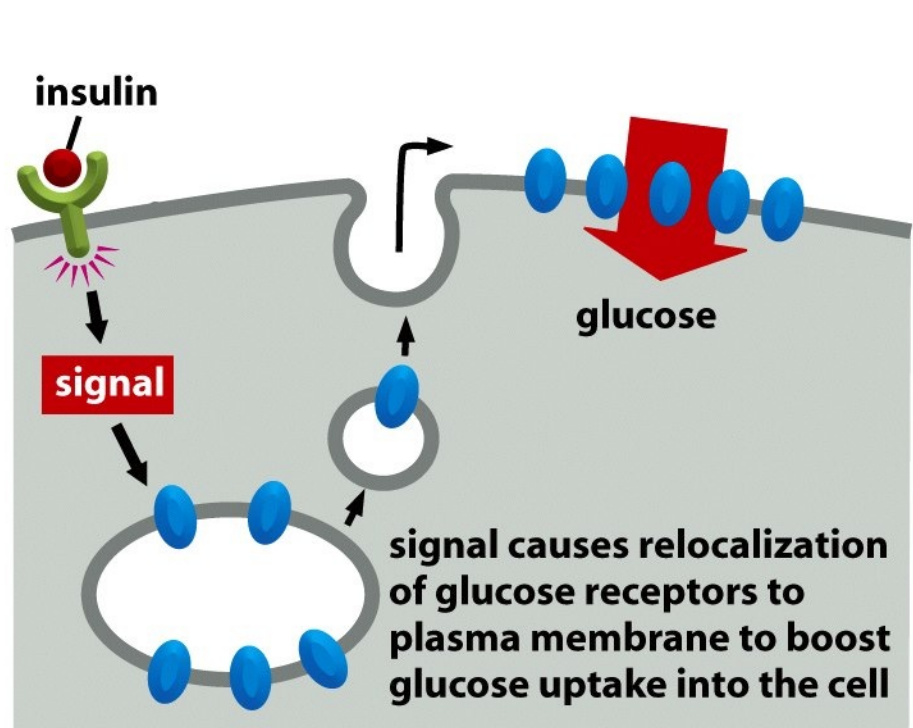


Figure 13-61 *Molecular Biology of the Cell* (© Garland Science 2008)

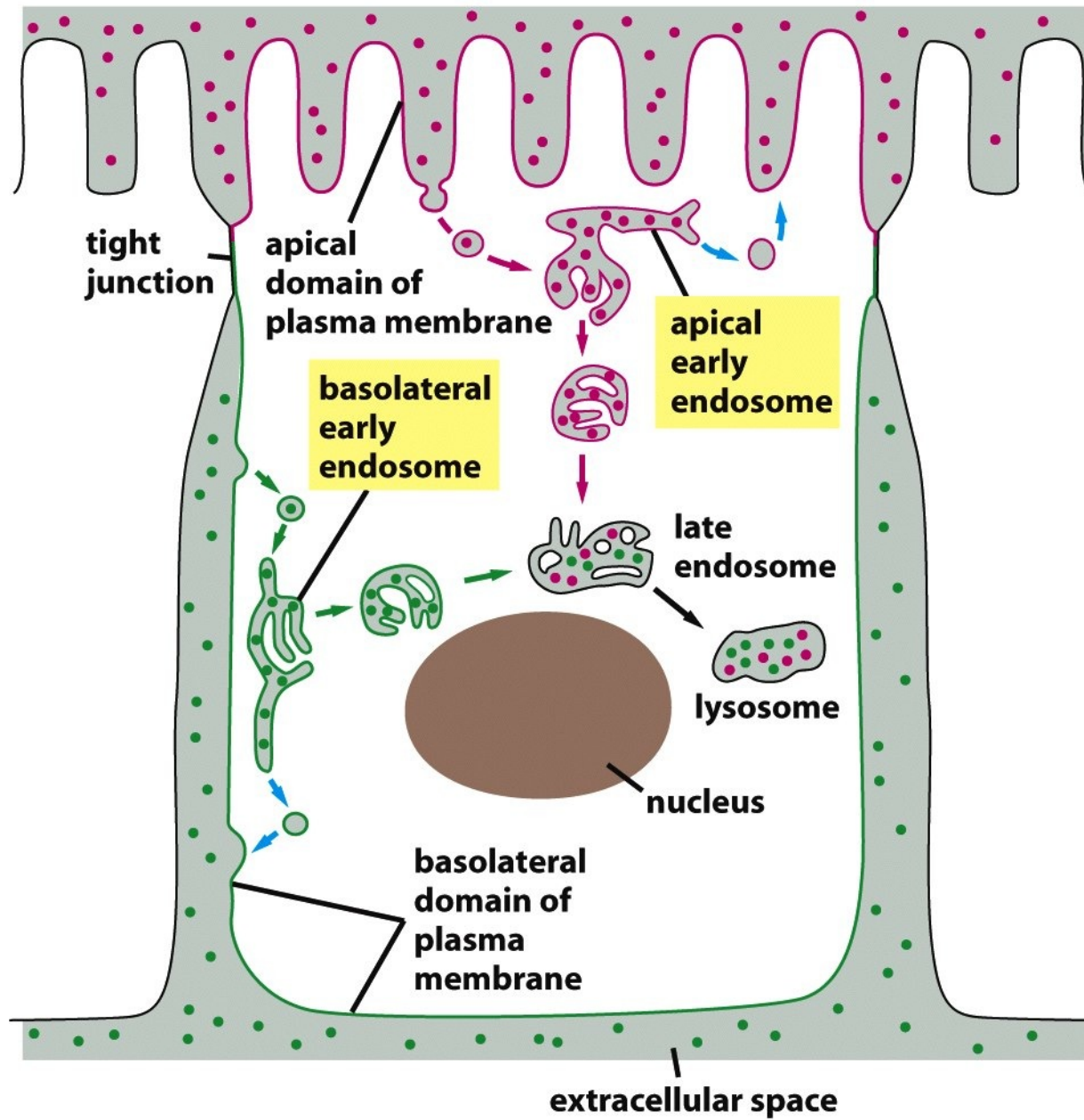
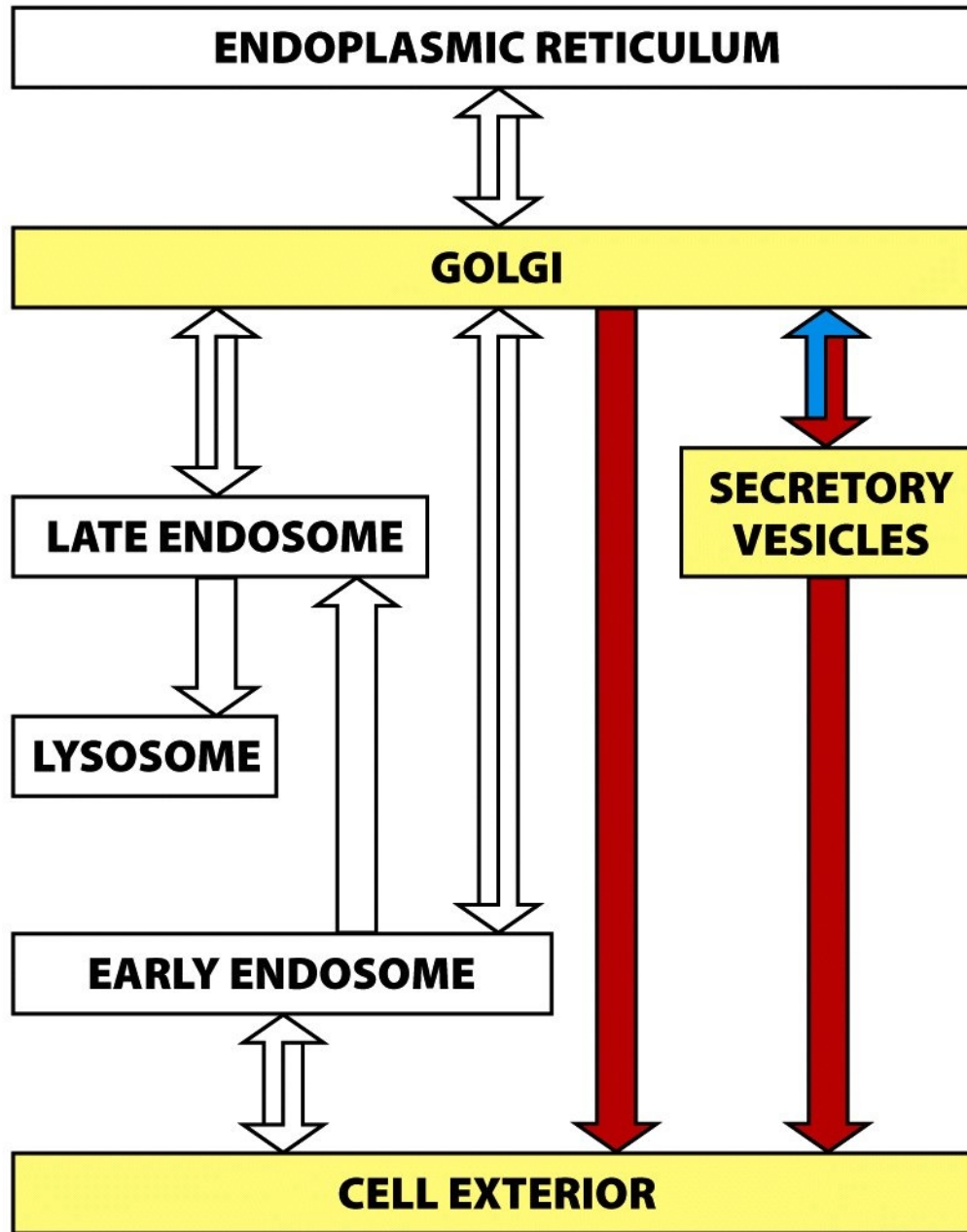


Figure 13-62 *Molecular Biology of the Cell* (© Garland Science 2008)



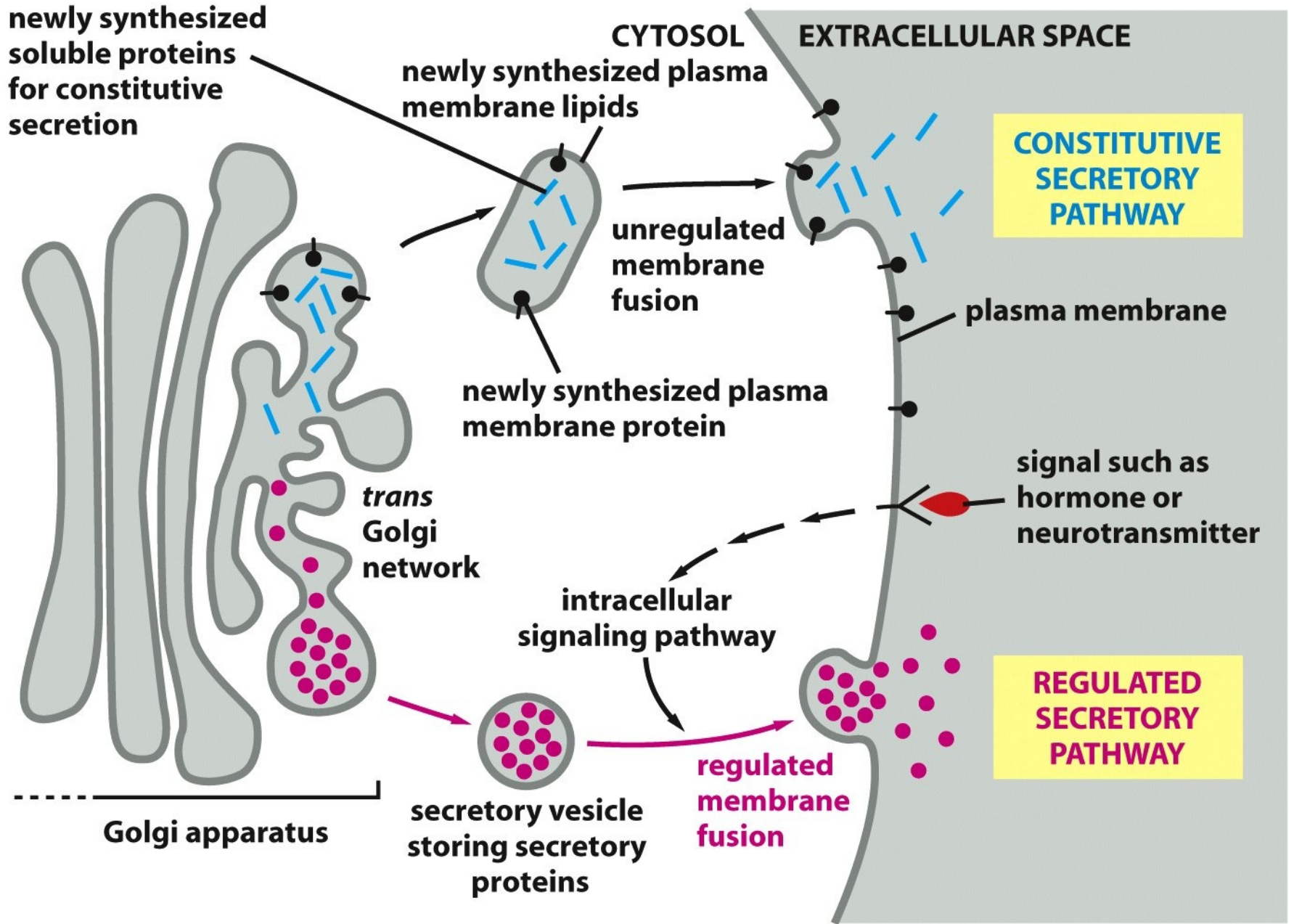


Figure 13-63 *Molecular Biology of the Cell* (© Garland Science 2008)

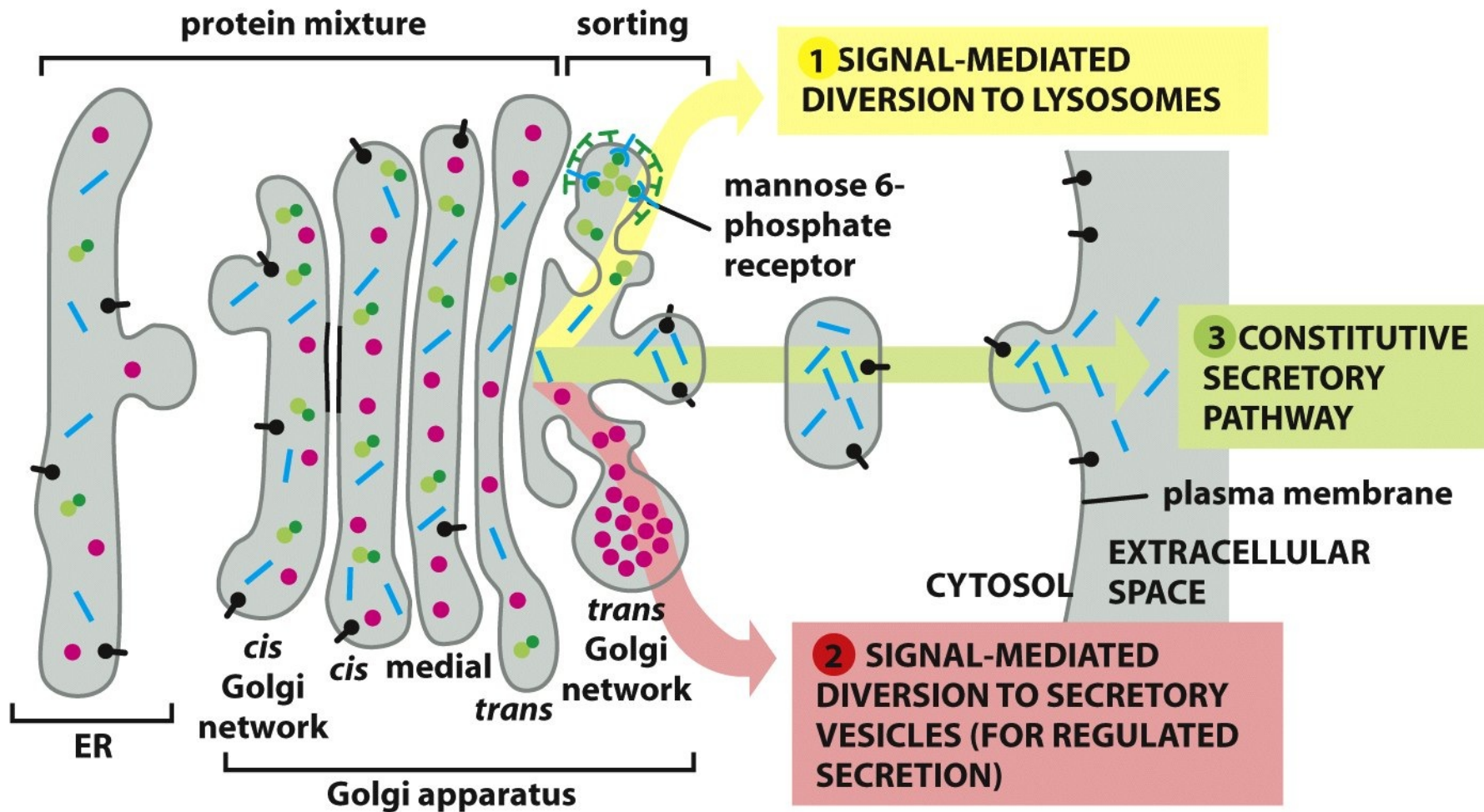


Figure 13-64 *Molecular Biology of the Cell* (© Garland Science 2008)

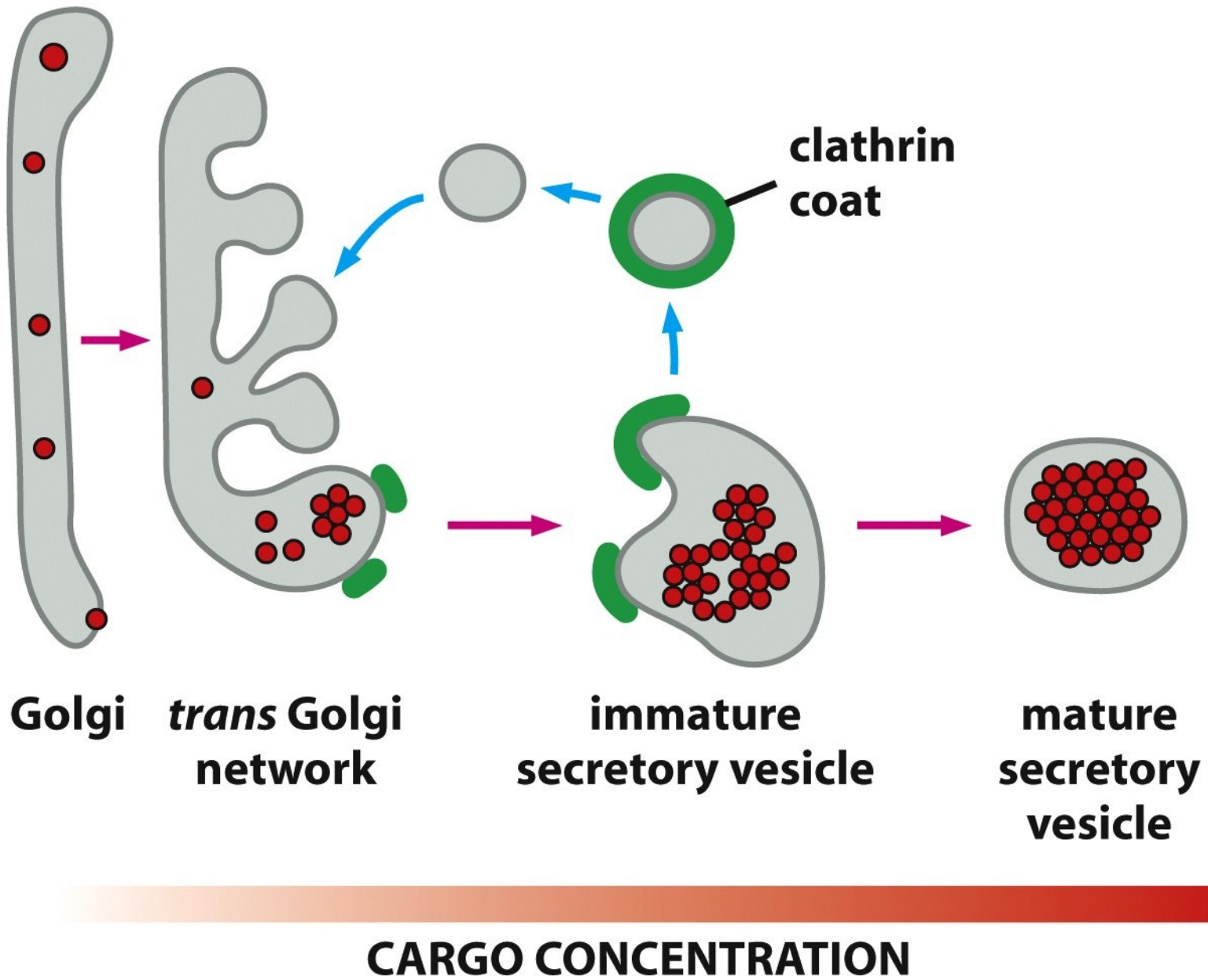
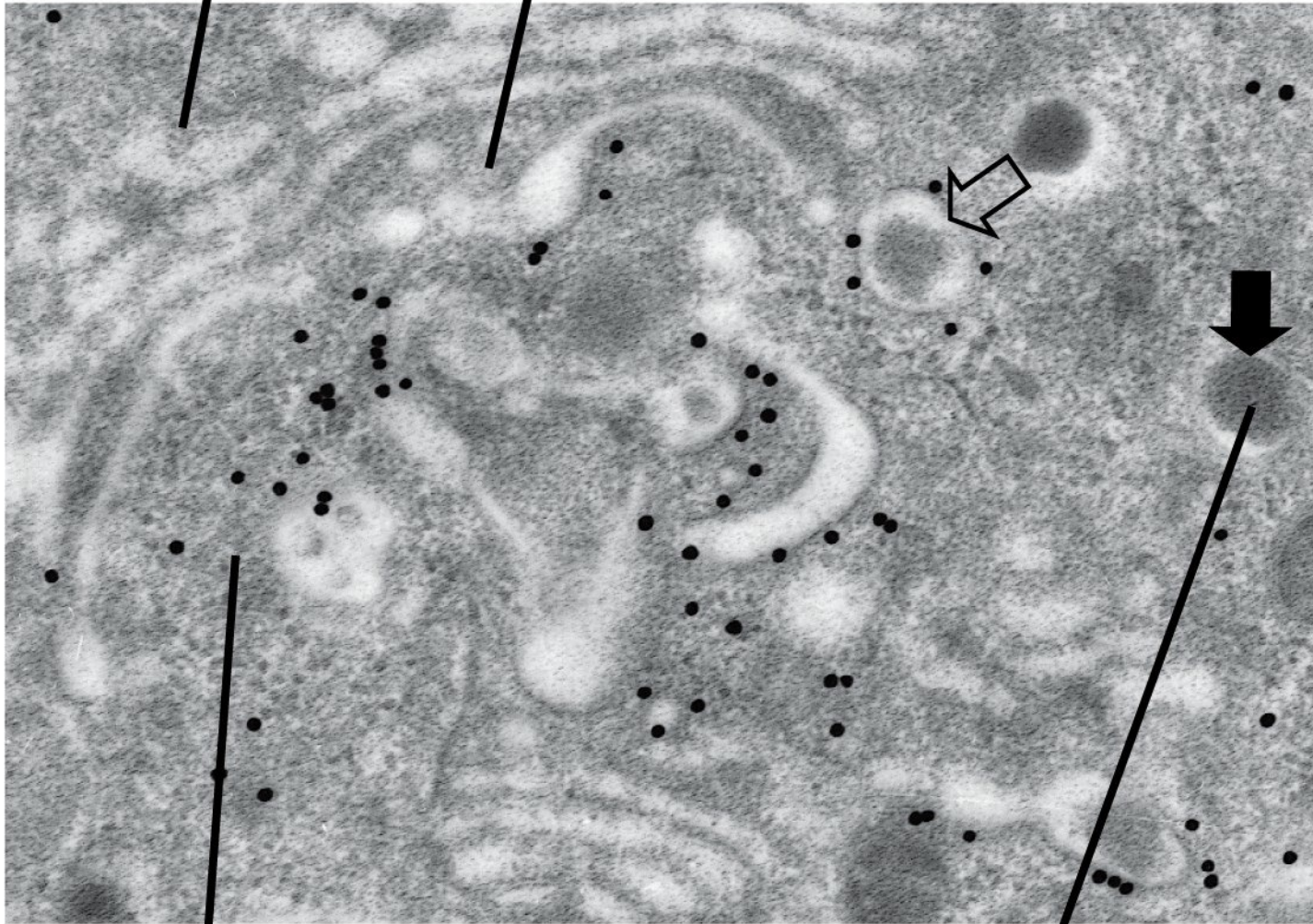


Figure 13-65a *Molecular Biology of the Cell* (© Garland Science 2008)

cis Golgi network **Golgi stack**



trans Golgi network

mature secretory vesicle

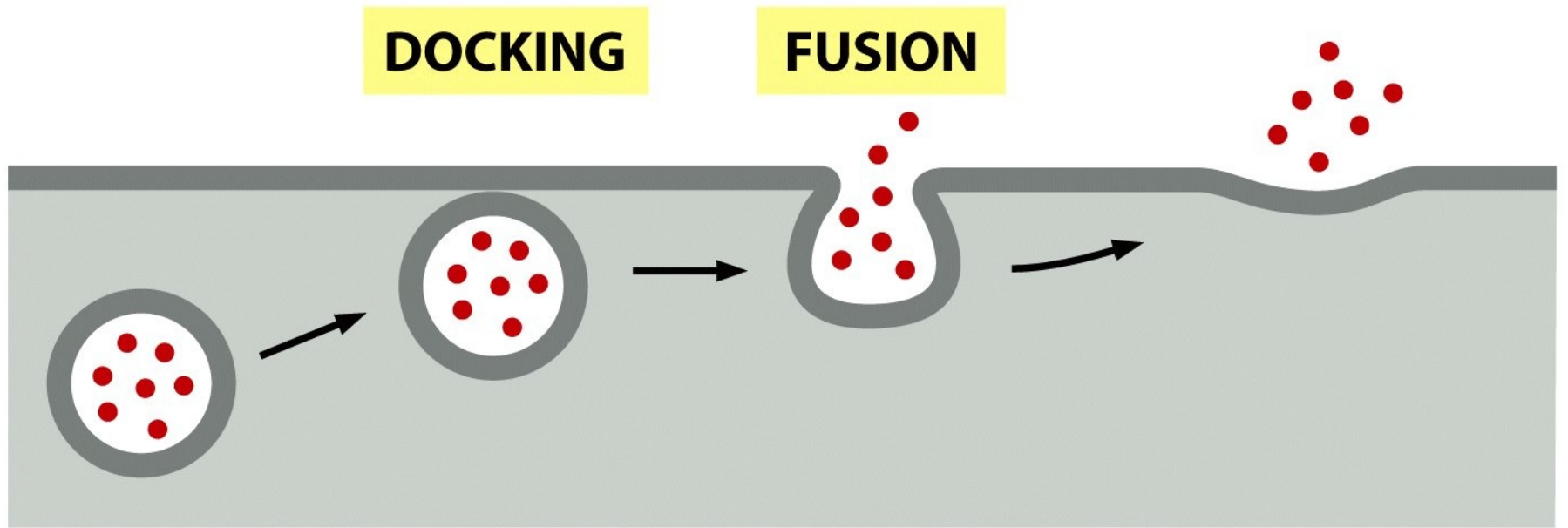
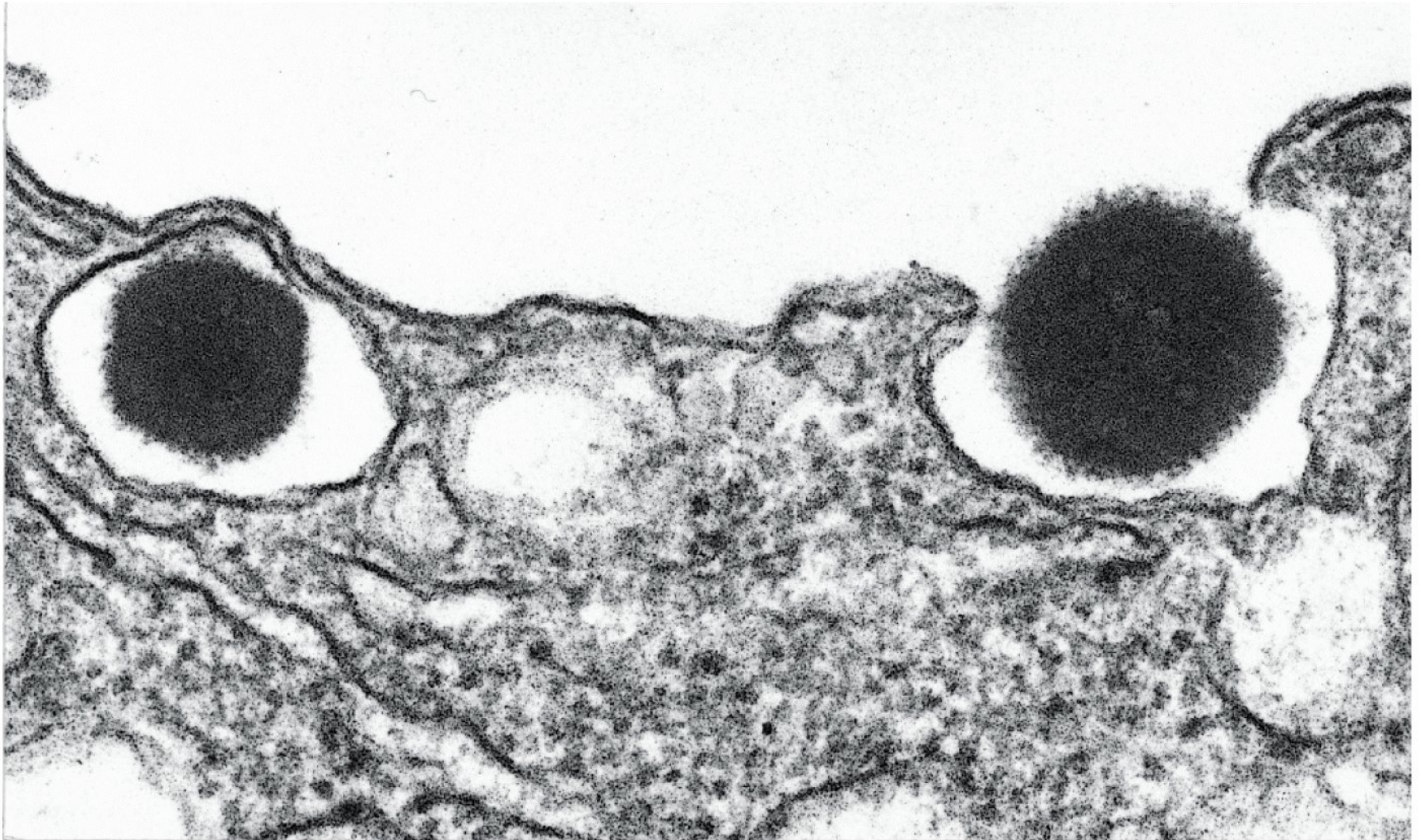


Figure 13-66a *Molecular Biology of the Cell* (© Garland Science 2008)



0.2 μm

Figure 13-66b *Molecular Biology of the Cell* (© Garland Science 2008)

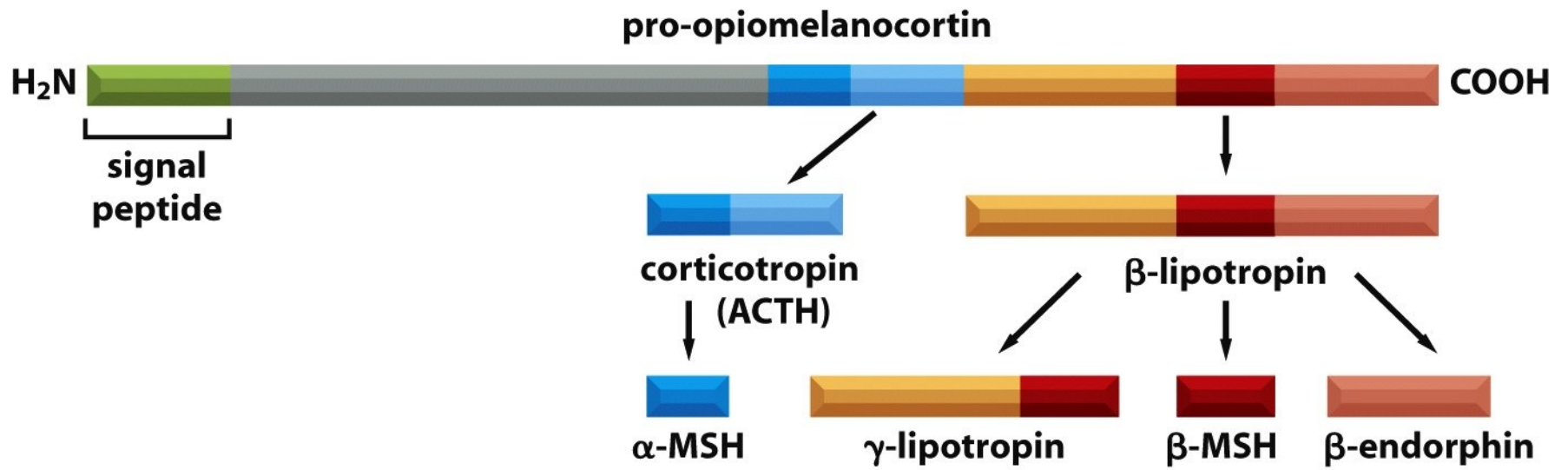
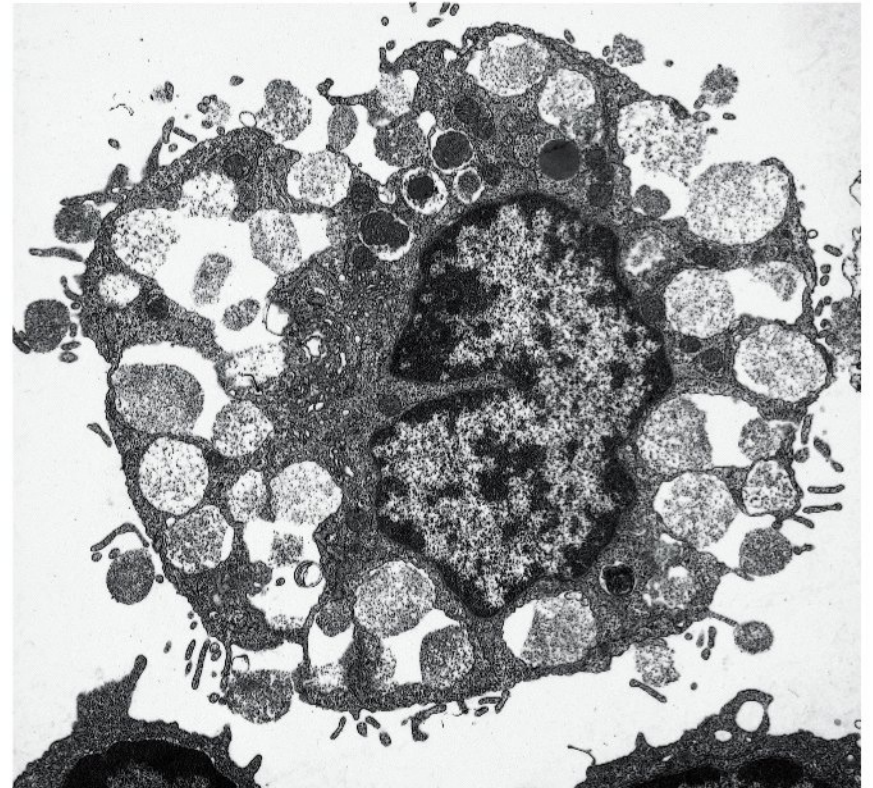


Figure 13-67 *Molecular Biology of the Cell* (© Garland Science 2008)



(A)

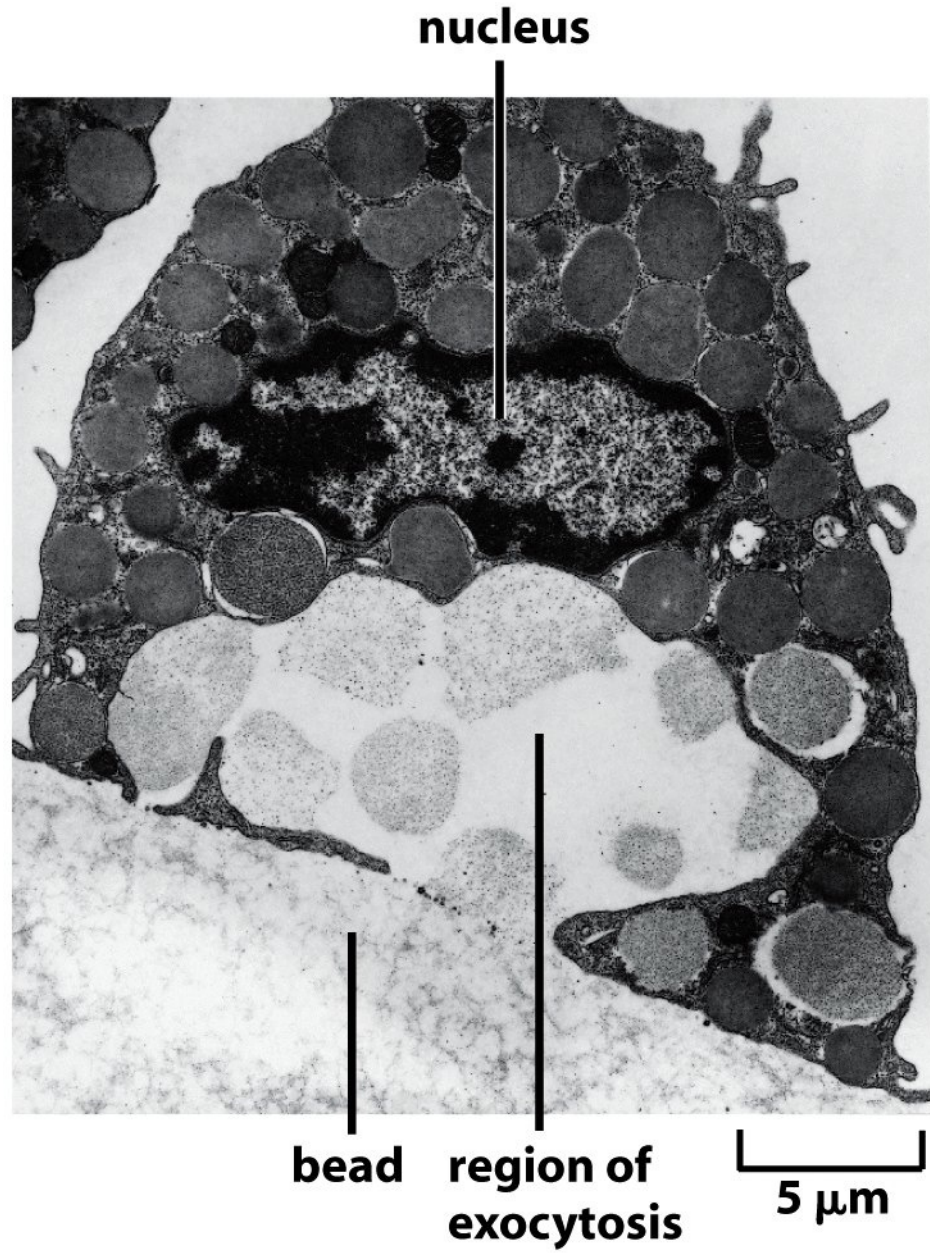
5 μm

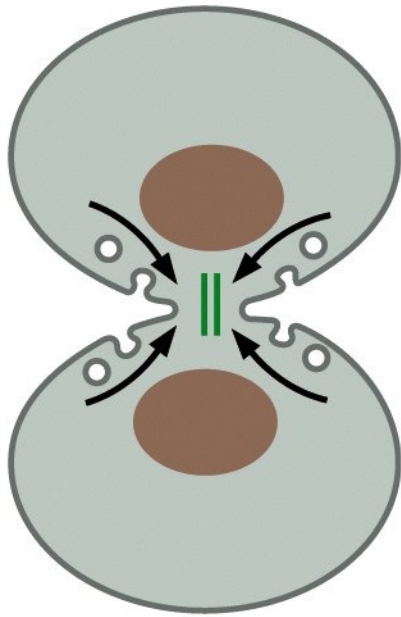


(B)

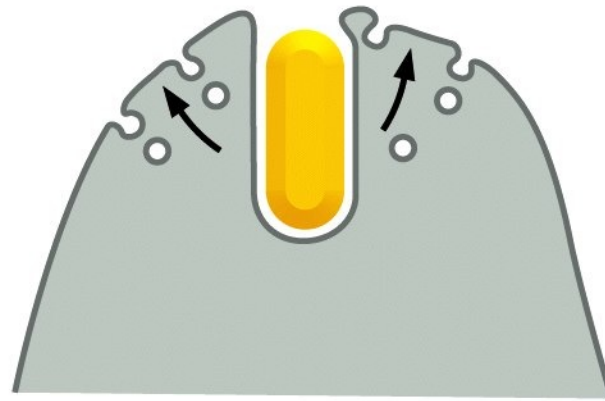
Histamin salınımı

Lokalizasyon

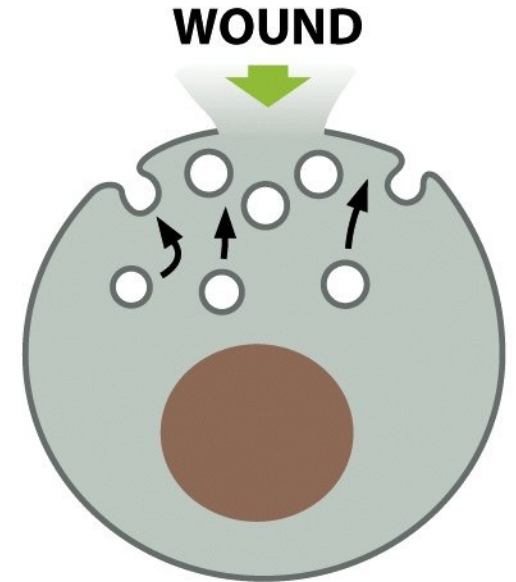




(A) CLEAVAGE FURROW



(B) PHAGOCYTOSIS



(C) WOUND REPAIR

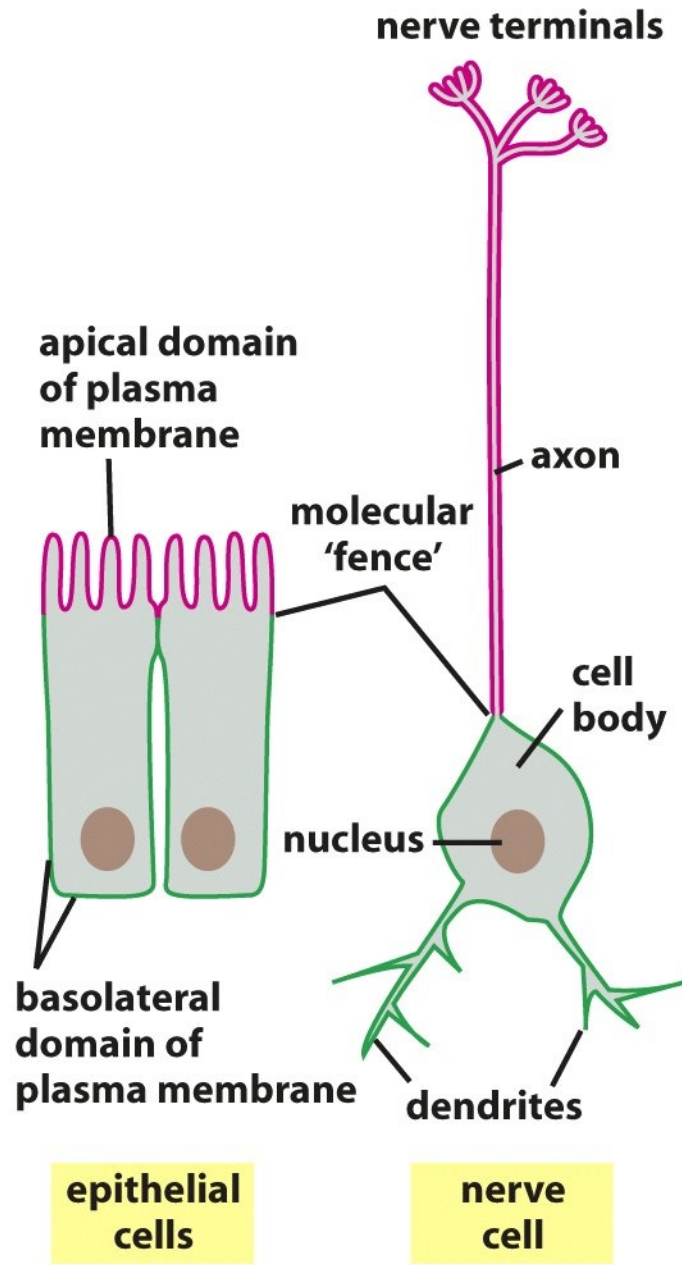
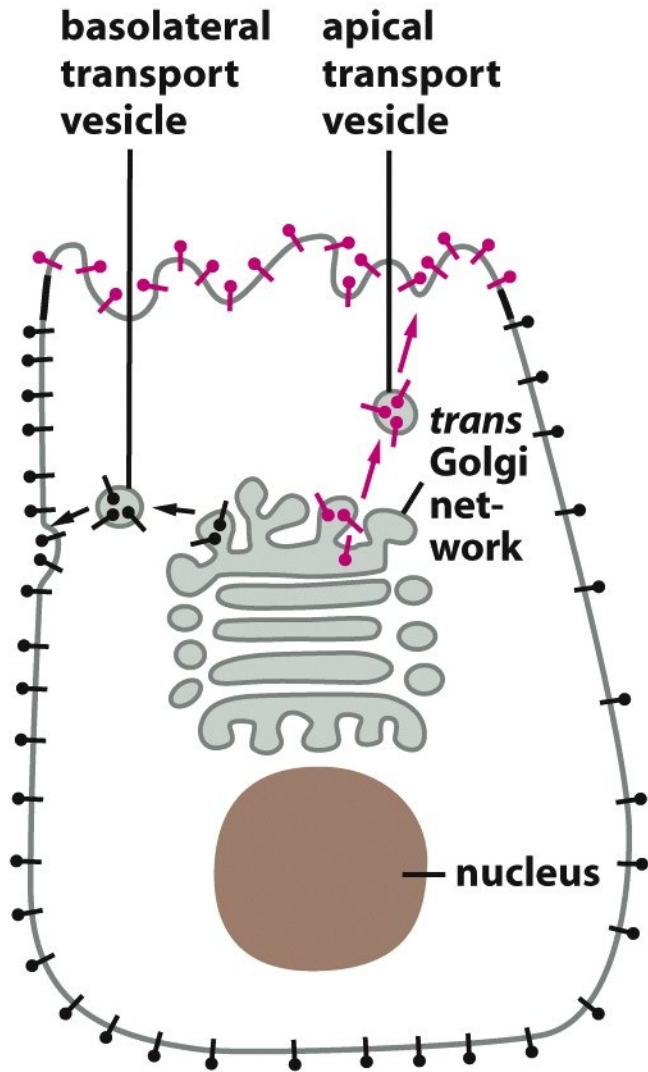
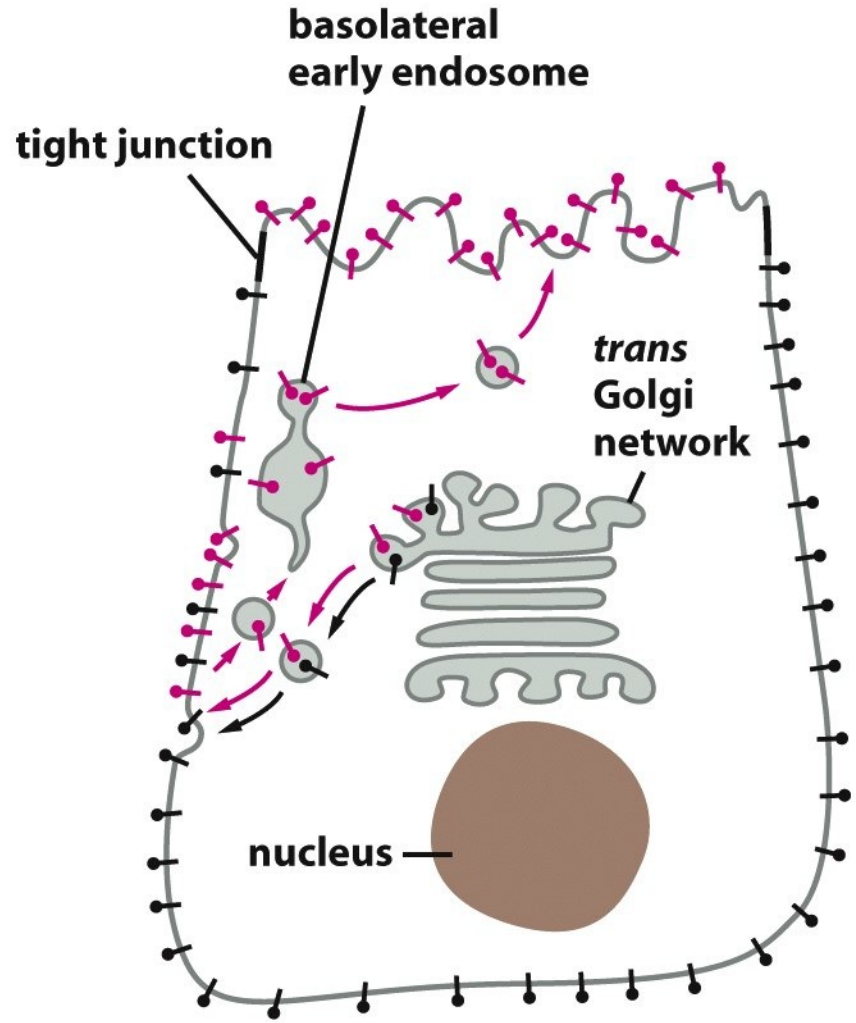


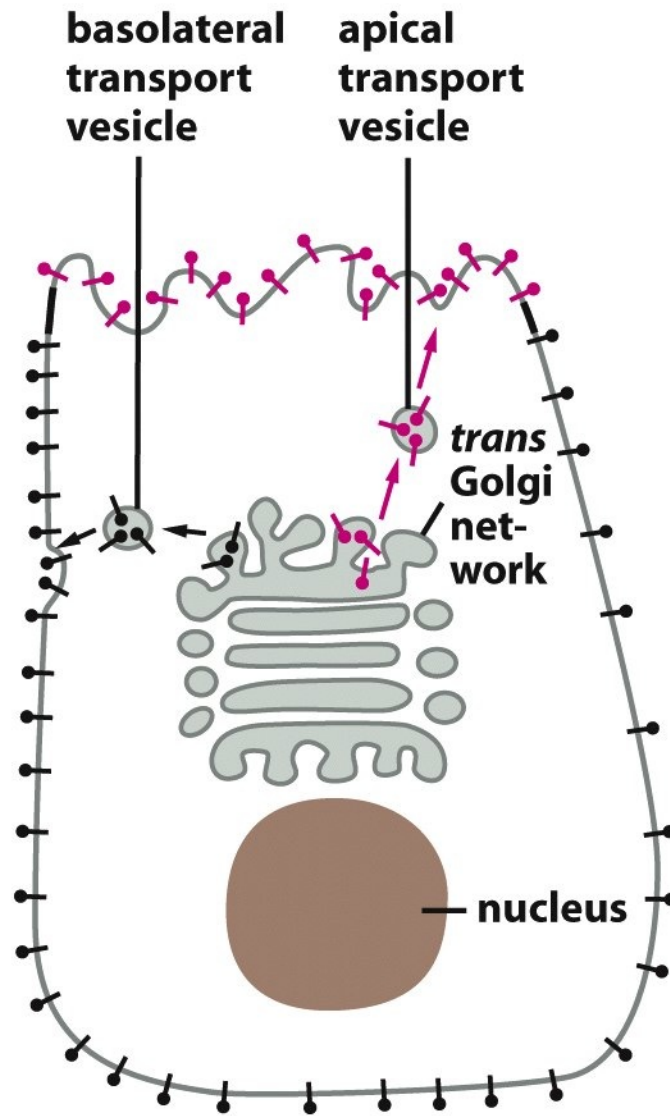
Figure 13-71 *Molecular Biology of the Cell* (© Garland Science 2008)



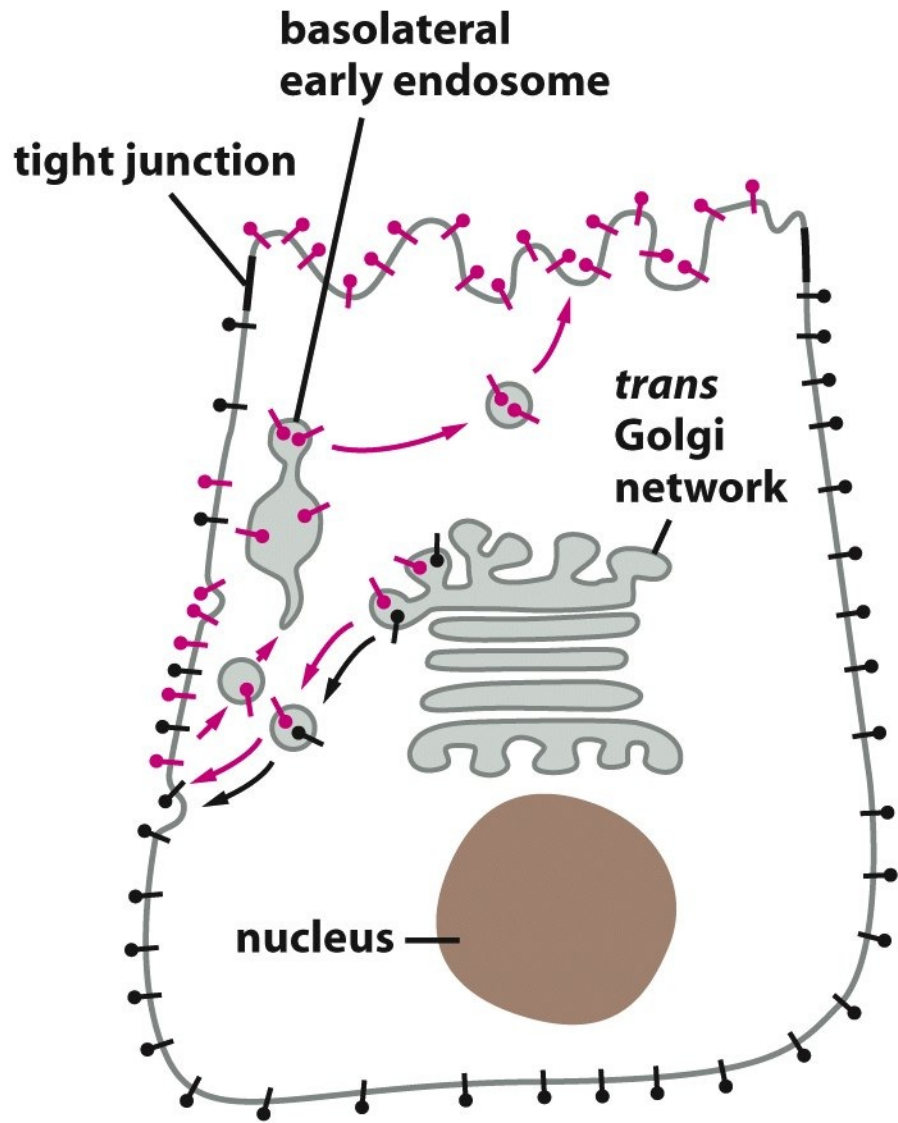
(A) DIRECT SORTING OF MEMBRANE PROTEINS IN THE TRANS GOLGI NETWORK



(B) INDIRECT SORTING VIA ENDOSOMES



**DIRECT SORTING OF MEMBRANE PROTEINS
IN THE TRANS GOLGI NETWORK**



INDIRECT SORTING VIA ENDOSOMES

Figure 13-72b *Molecular Biology of the Cell* (© Garland Science 2008)

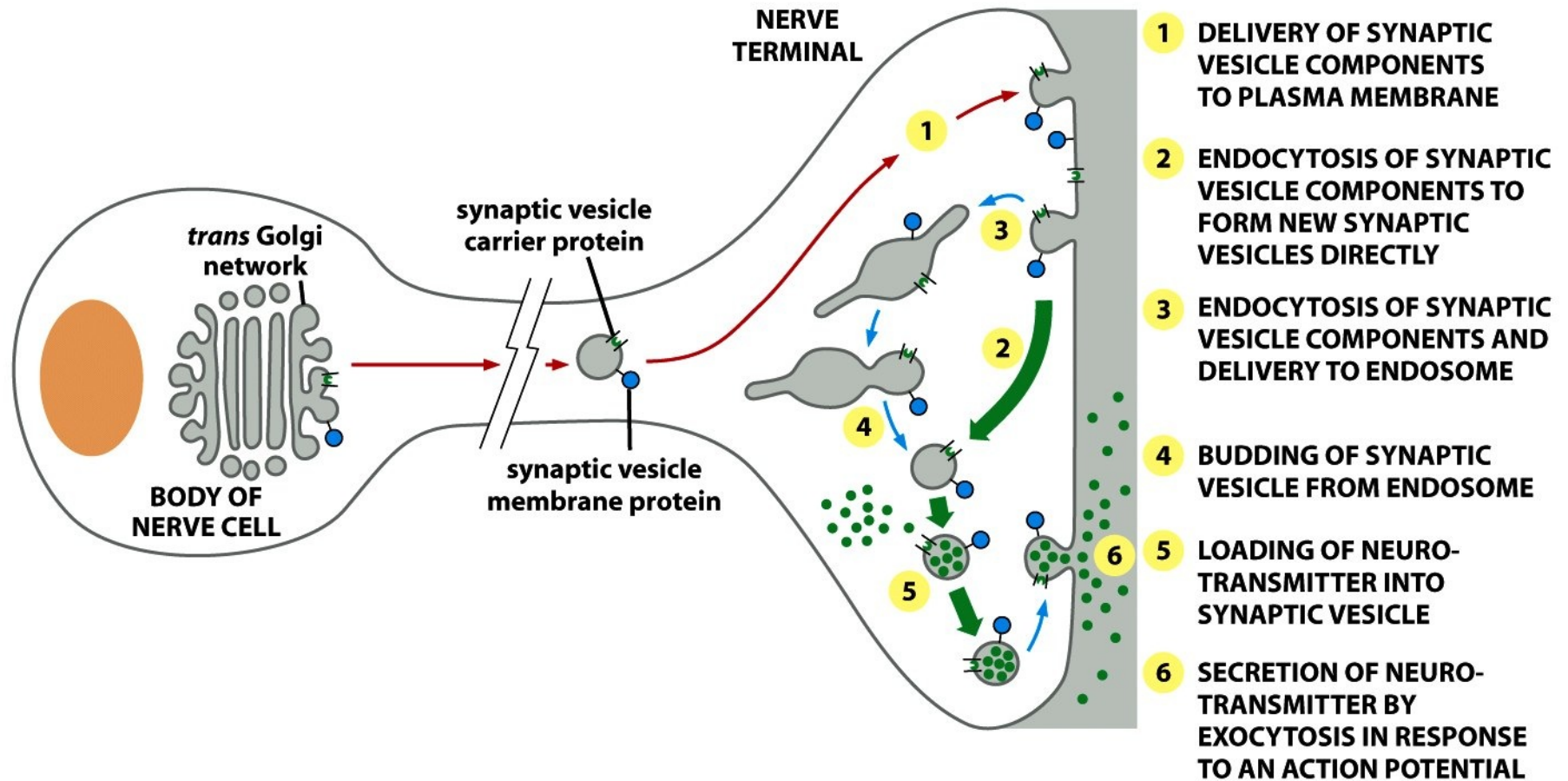


Figure 13-73 *Molecular Biology of the Cell* (© Garland Science 2008)



normal mouse

***Mocha* mouse**

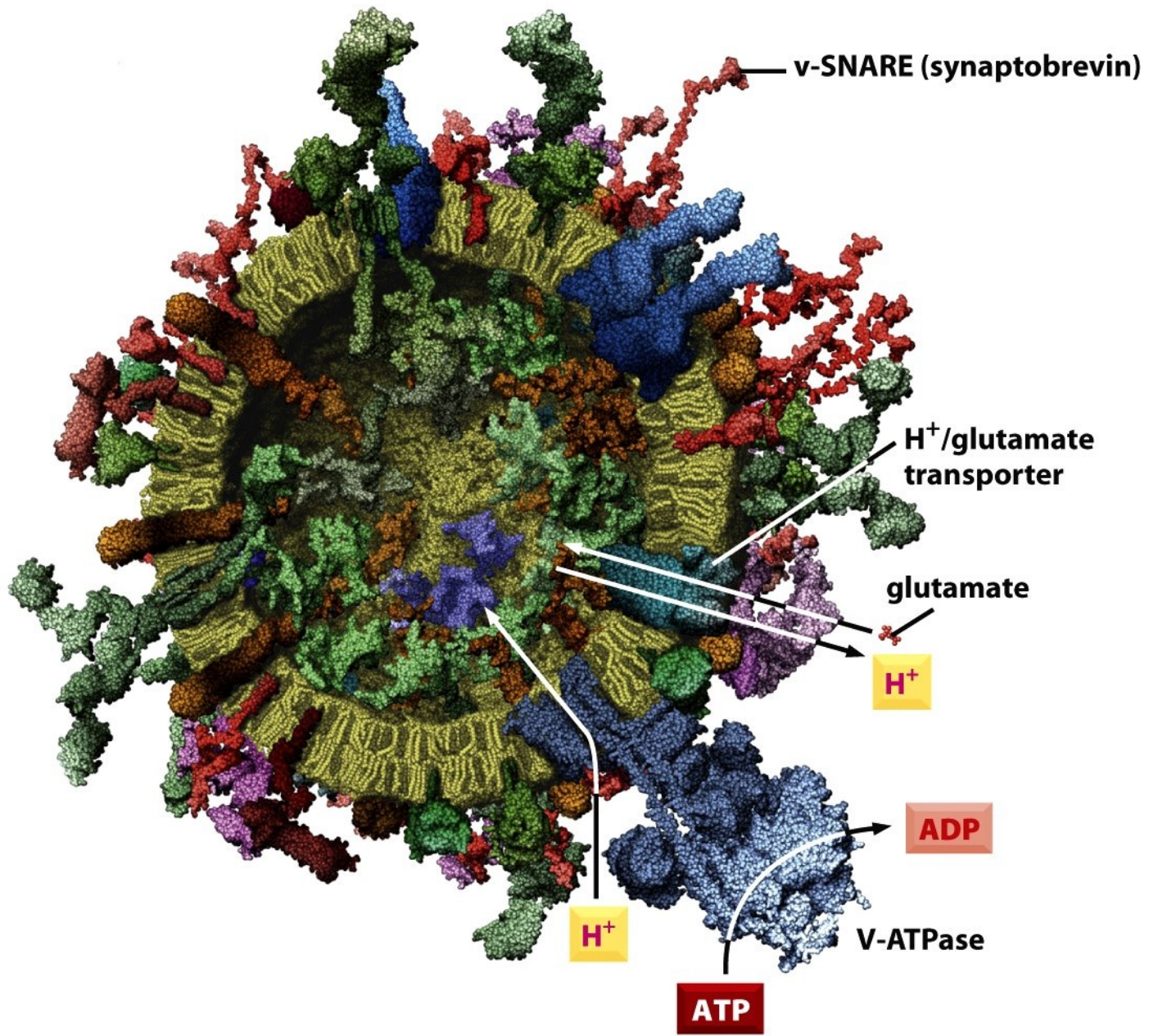


Figure 13-74 *Molecular Biology of the Cell* (© Garland Science 2008)

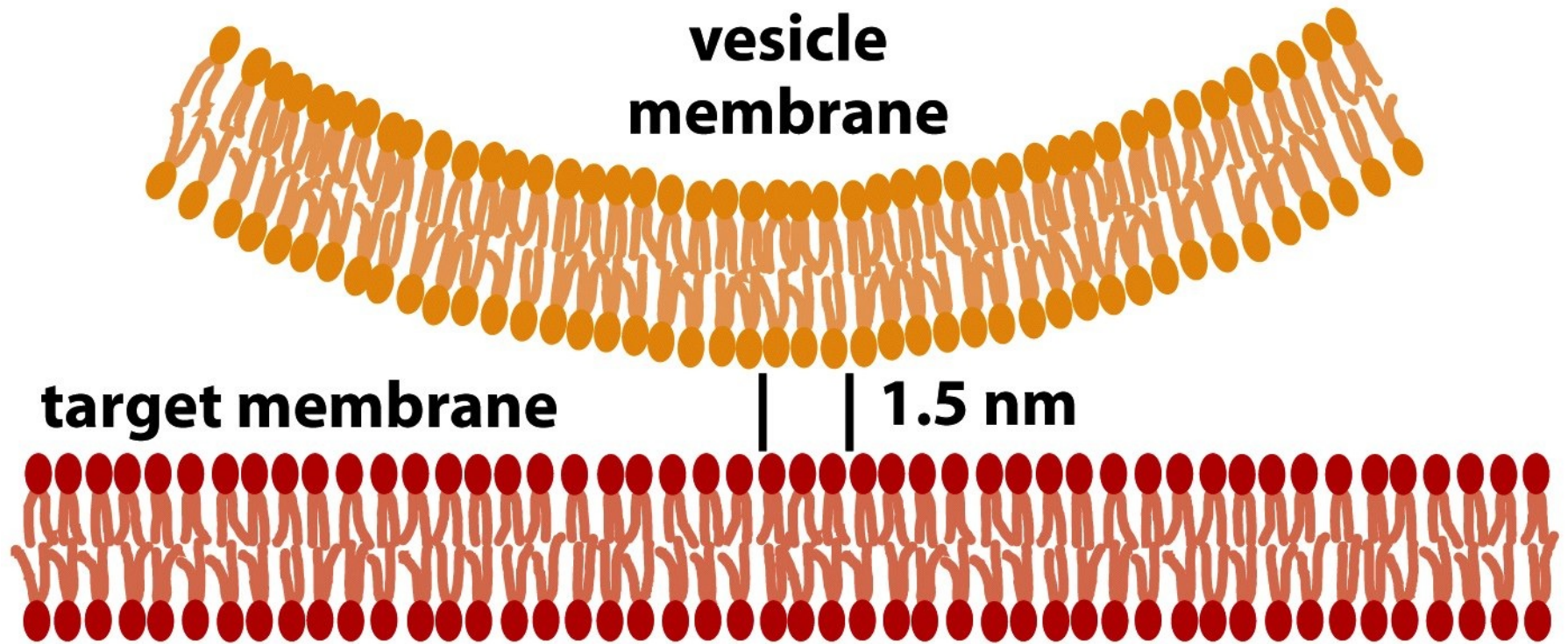
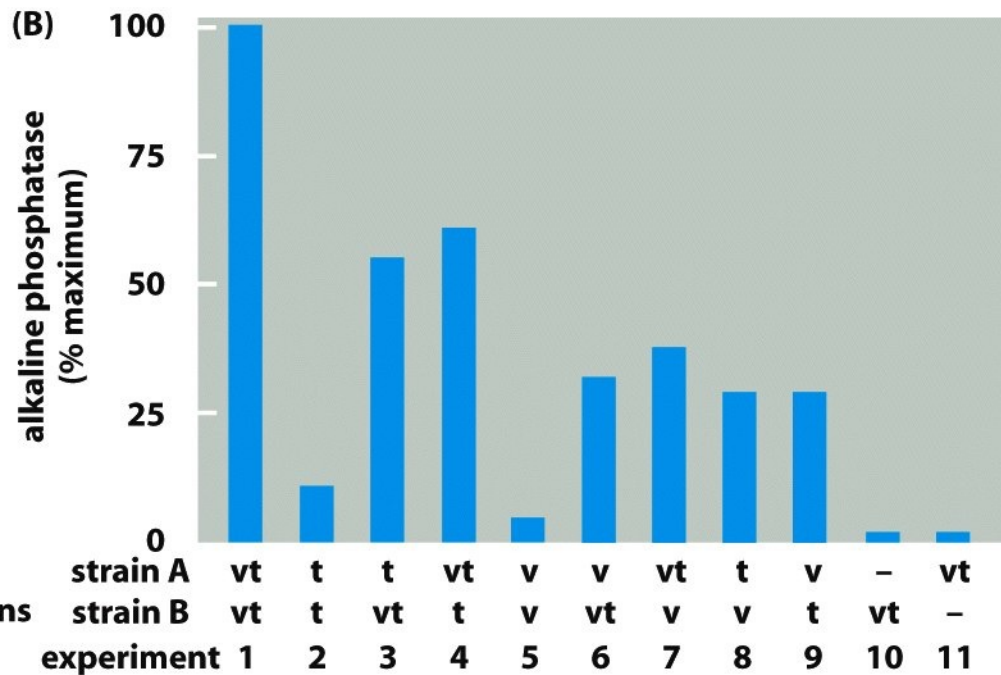
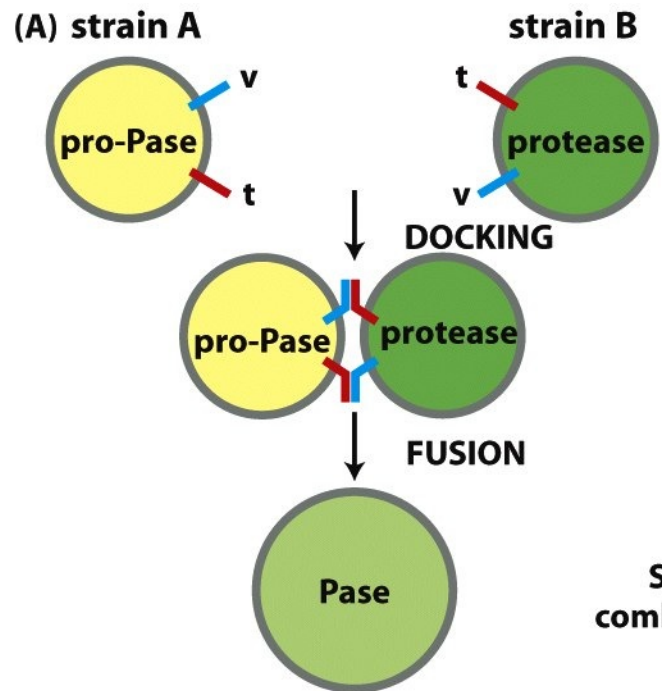
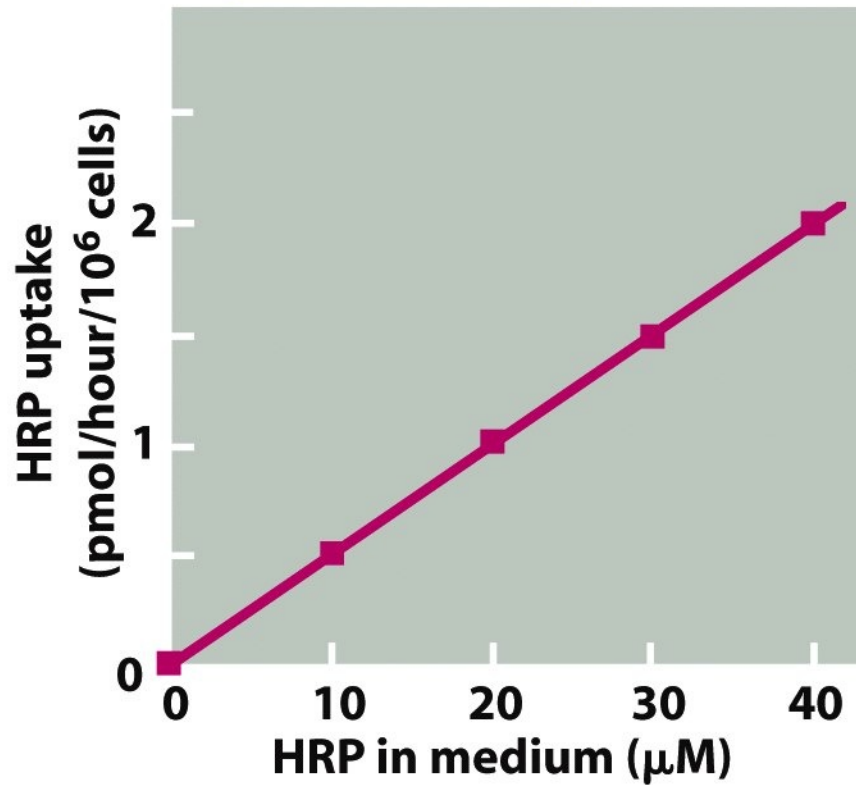


Figure Q13-1 *Molecular Biology of the Cell* (© Garland Science 2008)



(A) HRP UPTAKE



(B) EGF UPTAKE

