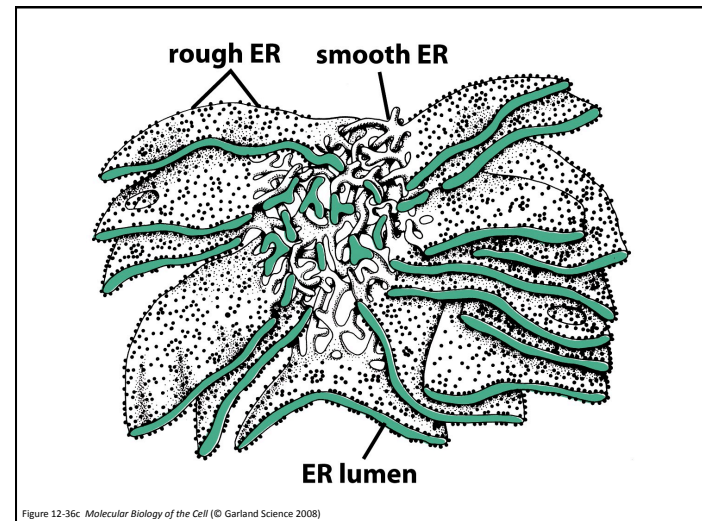
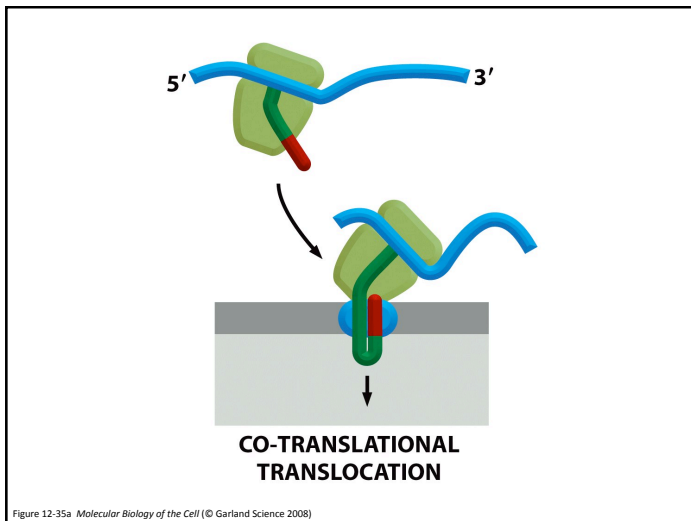
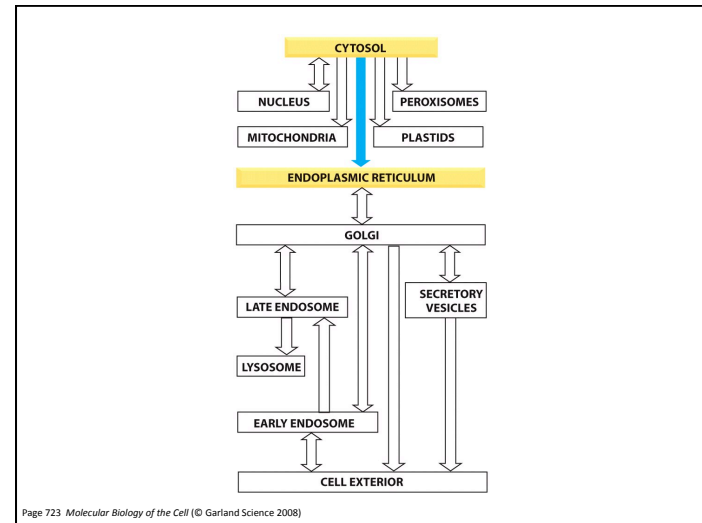
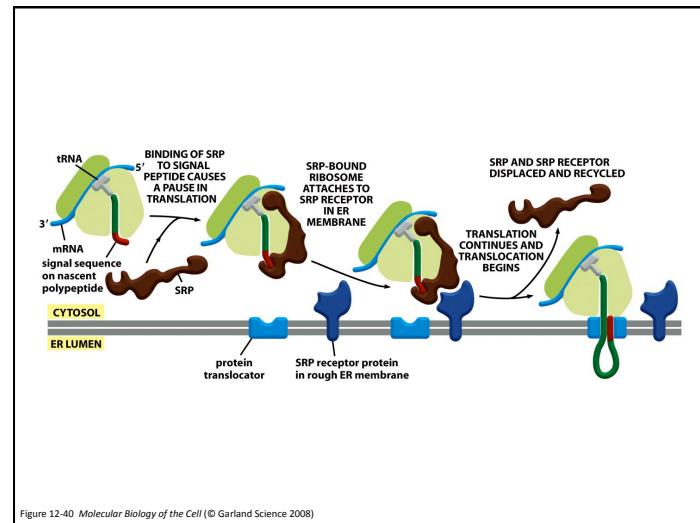
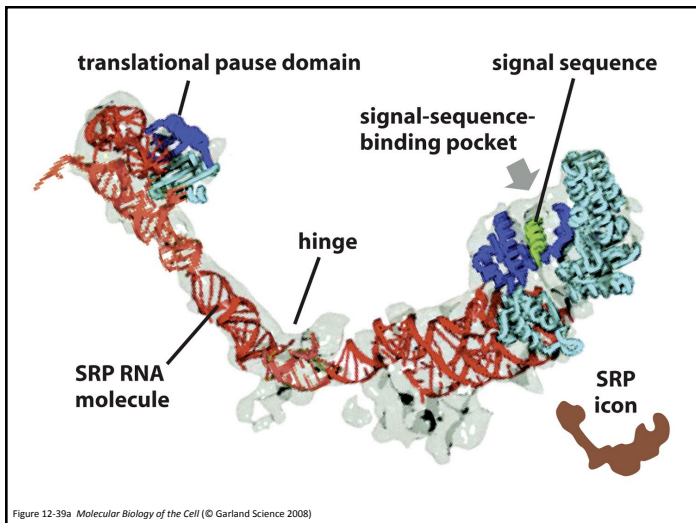
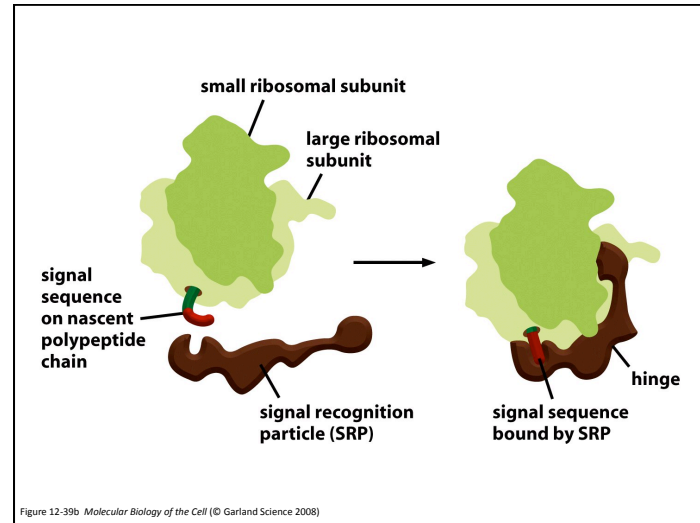
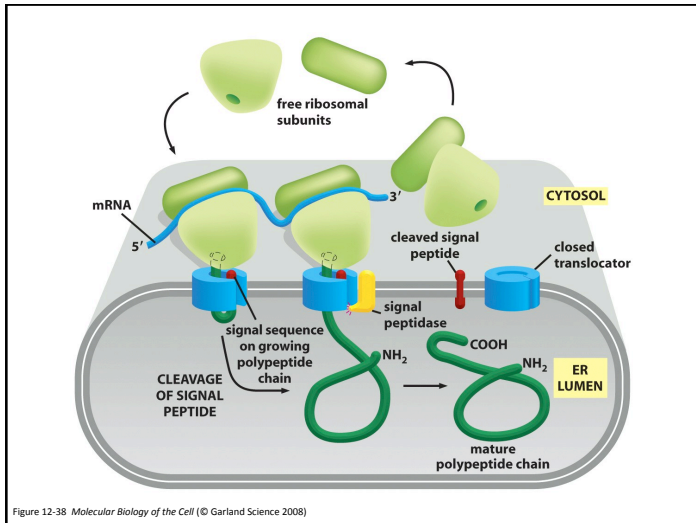
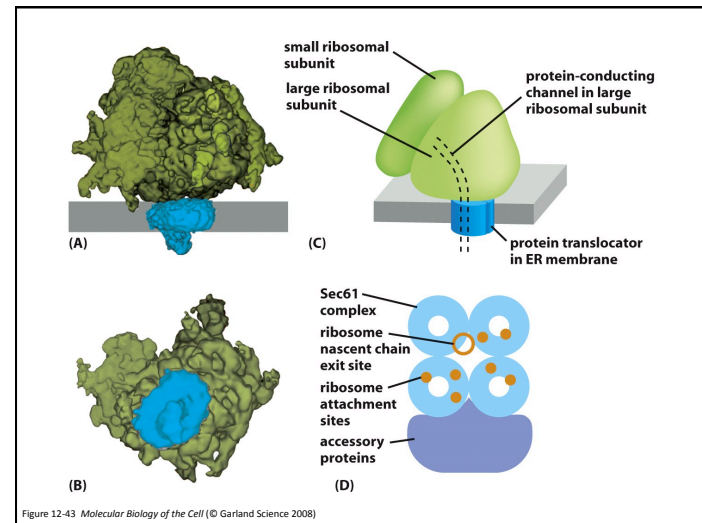
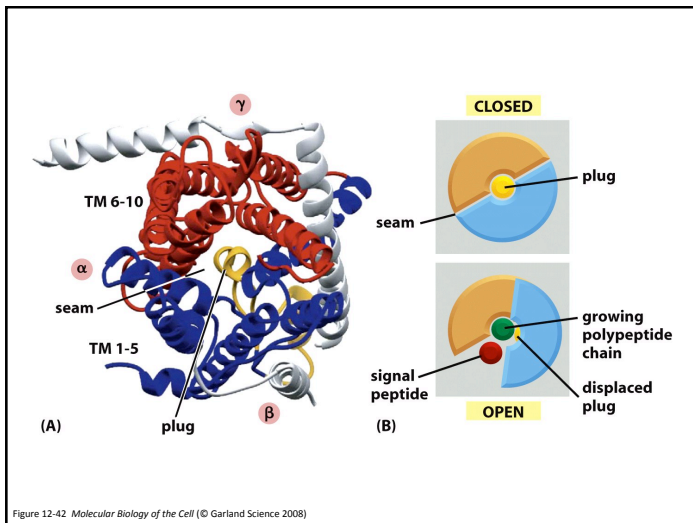
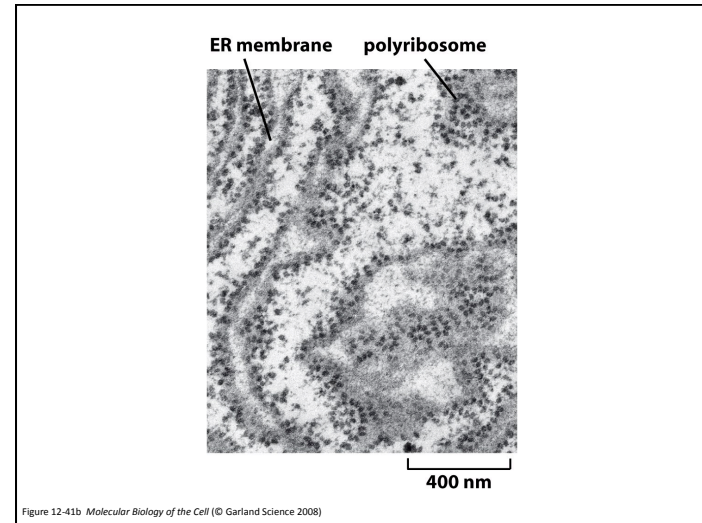
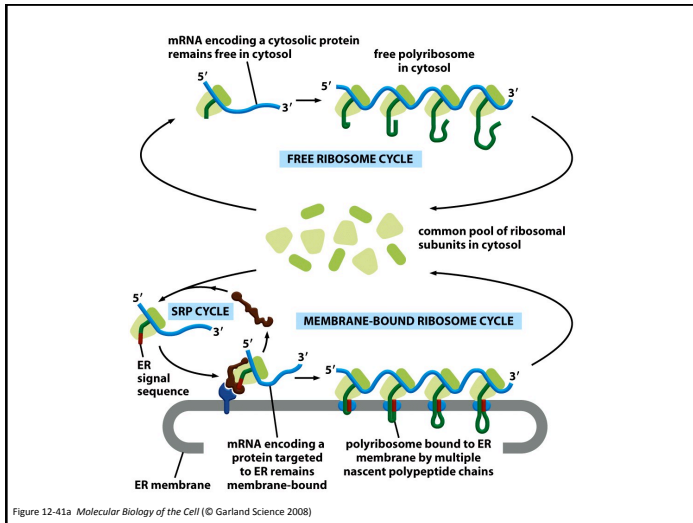
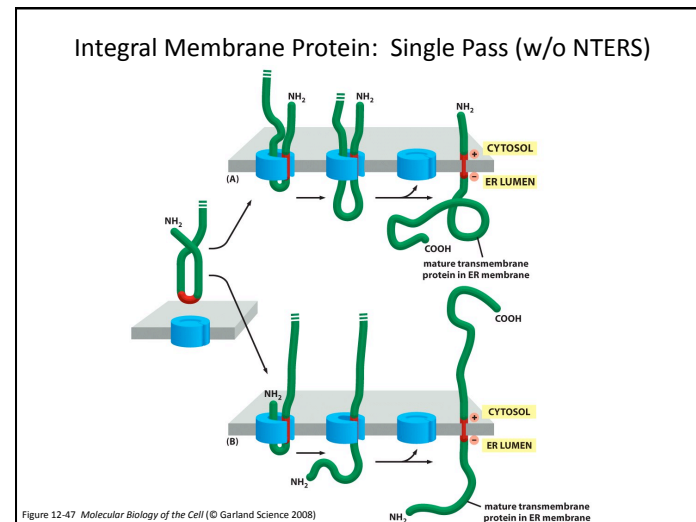
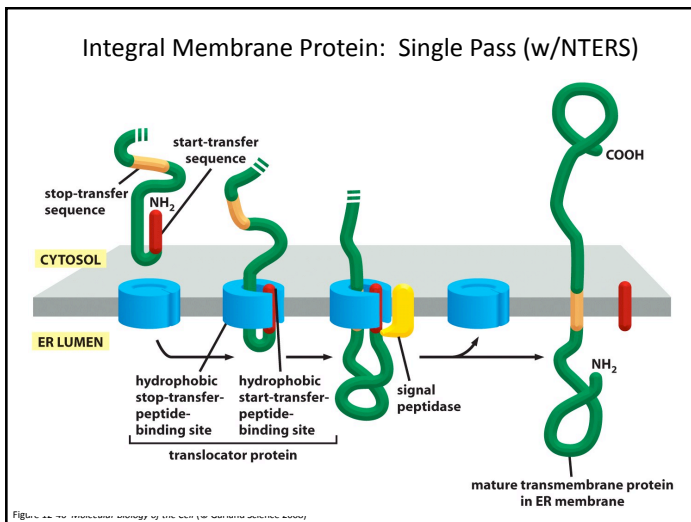
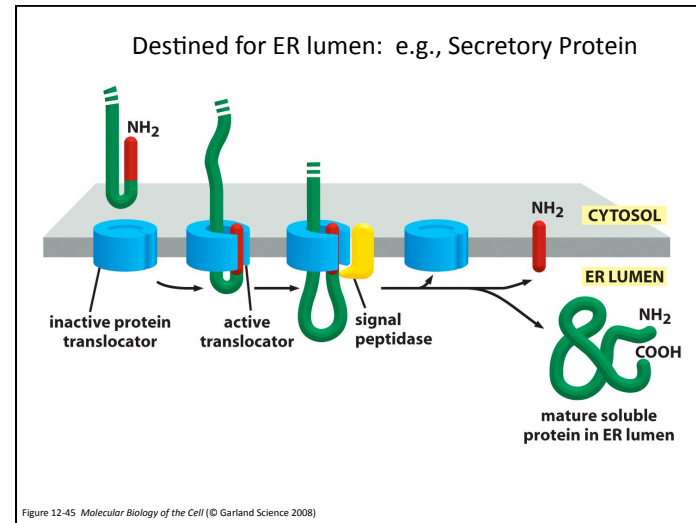
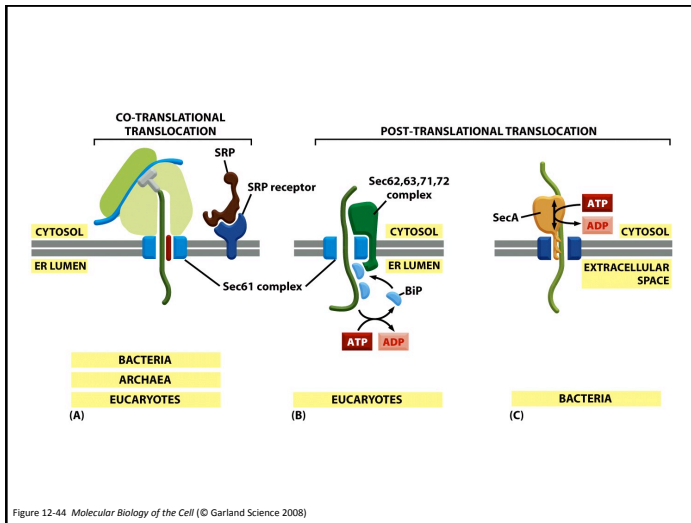


Exam 2  
Wednesday, Mar 4 !!!  
Lectures 7 - 11  
Chapters 11, 12 & 13  
50 multiple choice questions

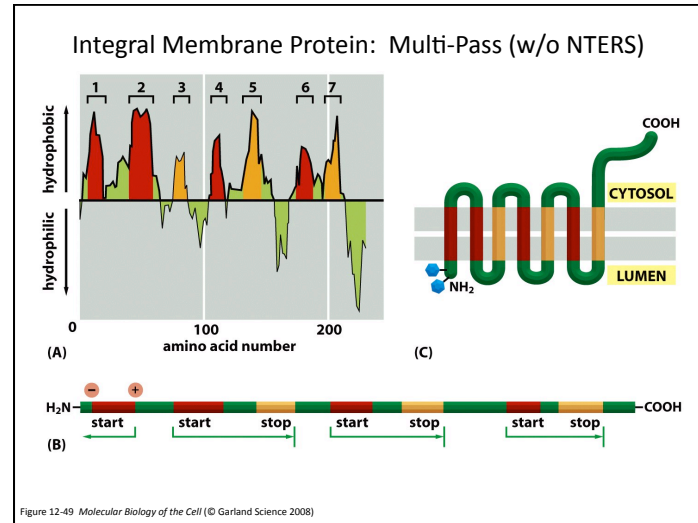
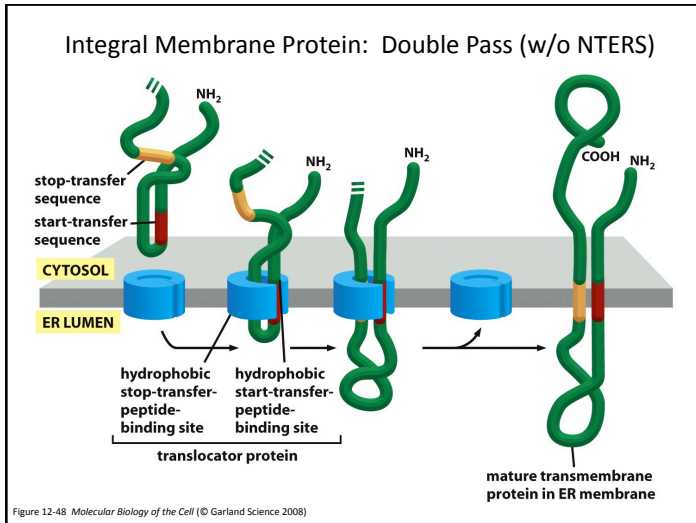












### N - Glycosylation

1. Begin in ER/ finish in Golgi
2. Asn-X-Thr (X ≠ Pro)
3. Attach to amine nitrogen of Asn residue
4. 90% of glycoproteins
5. 14 sugar oligosaccharide
6. - NAGA<sub>2</sub>-Man<sub>9</sub>-Glu<sub>3</sub>

NC(=O)C(CCN)C(=O)N

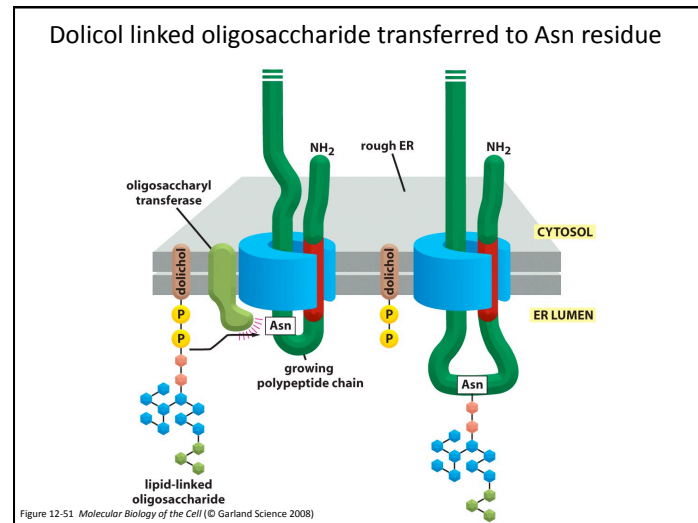
asparagine side chain

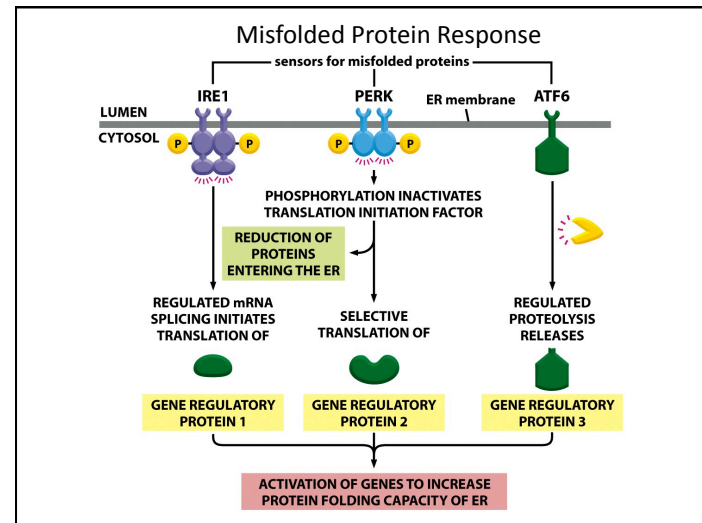
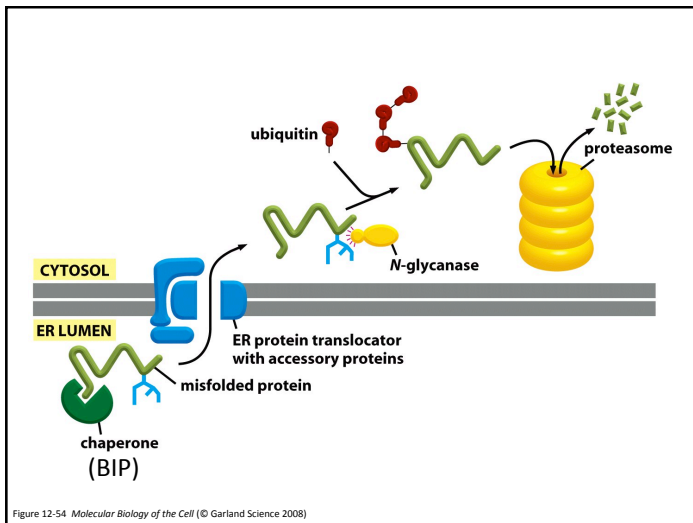
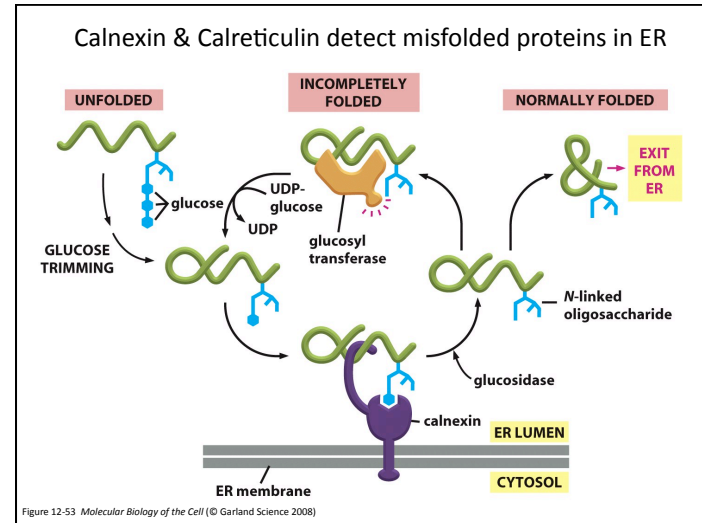
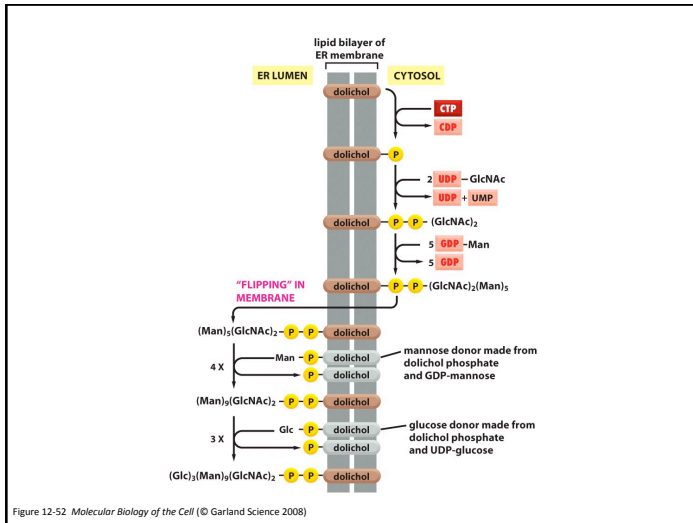
glucose = ●

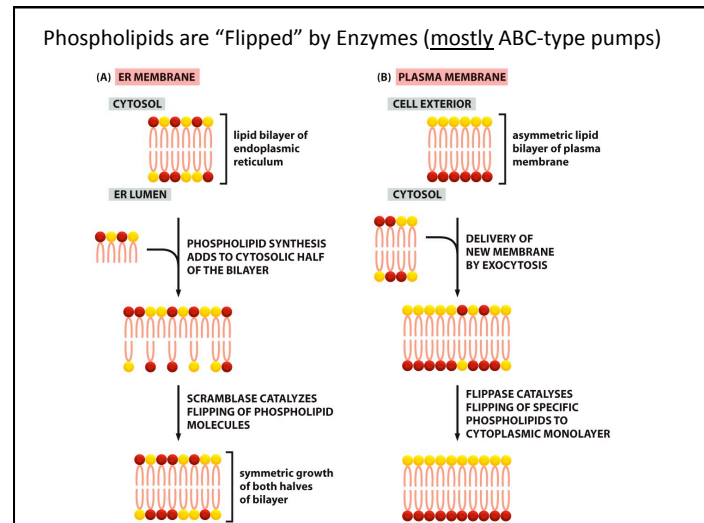
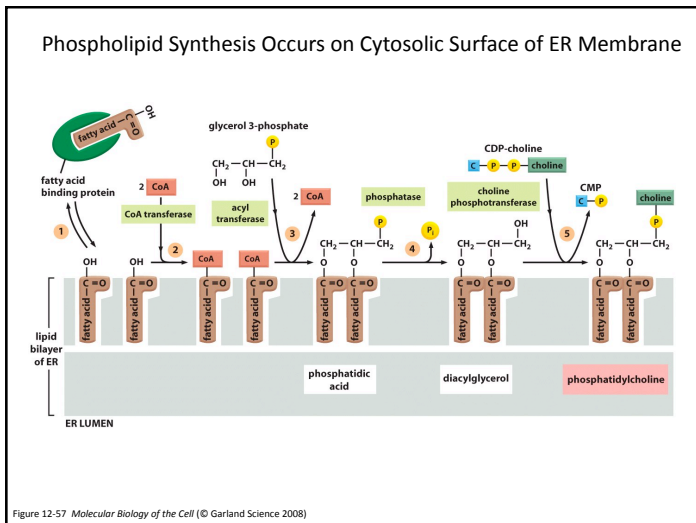
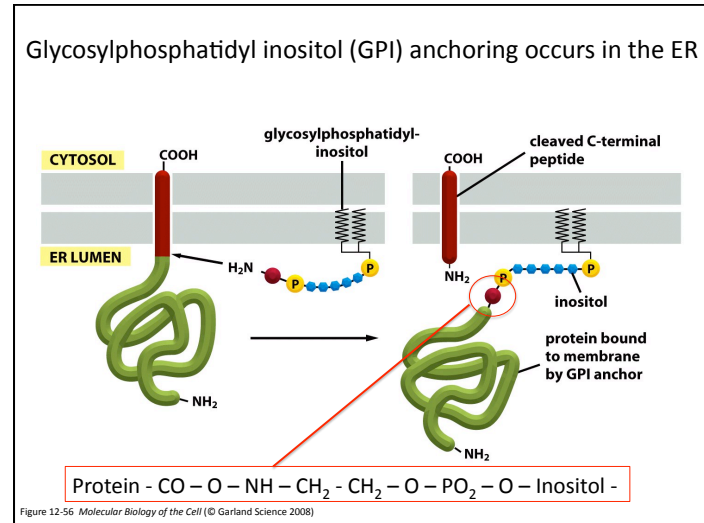
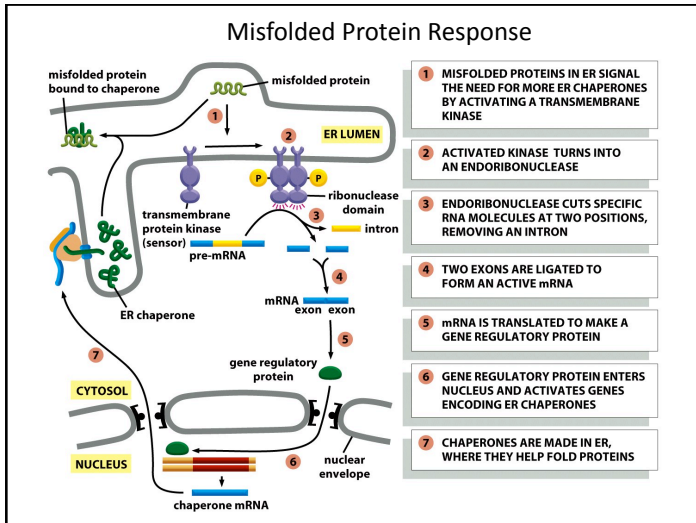
mannose = ●

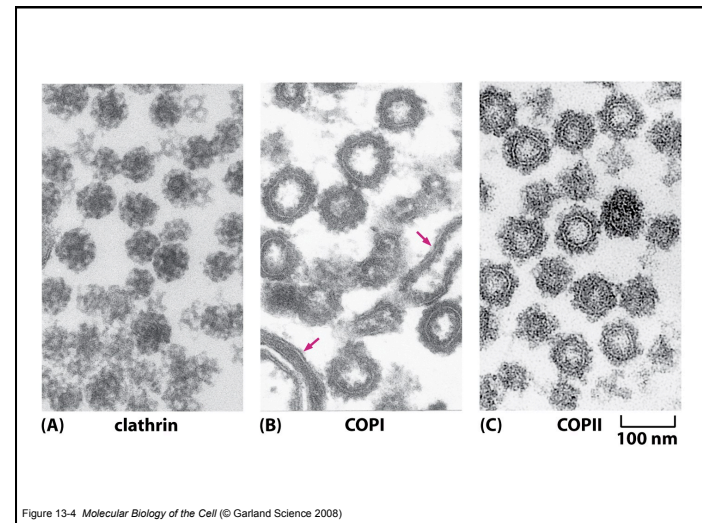
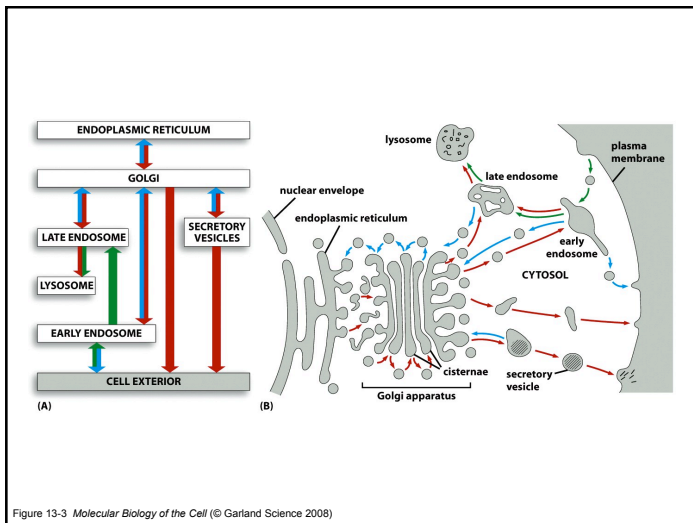
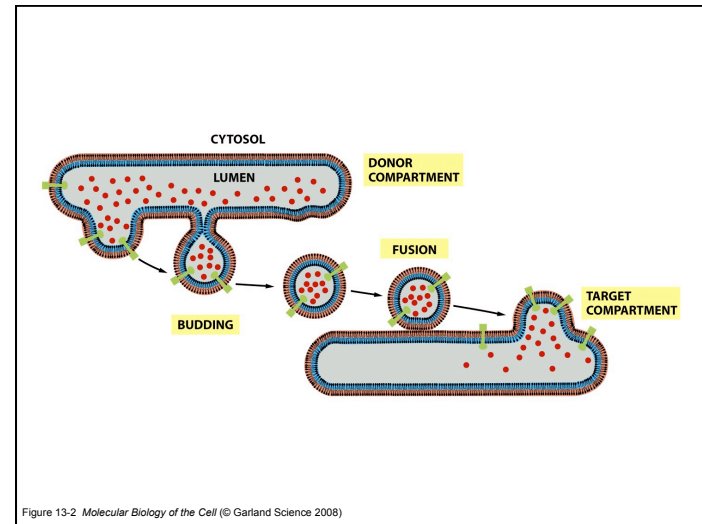
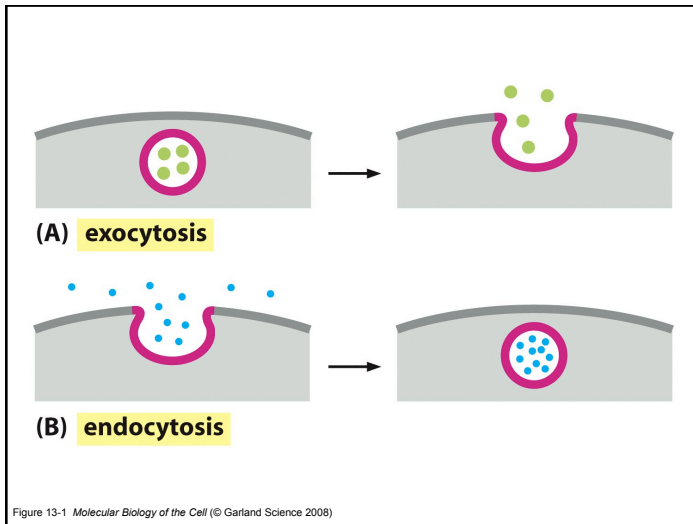
N-acetylglucosamine = ●

Figure 12-50 Molecular Biology of the Cell (© Garland Science 2008)

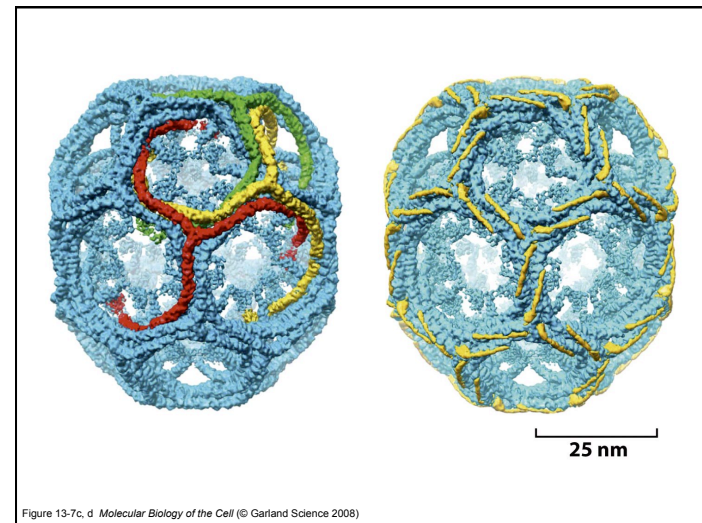
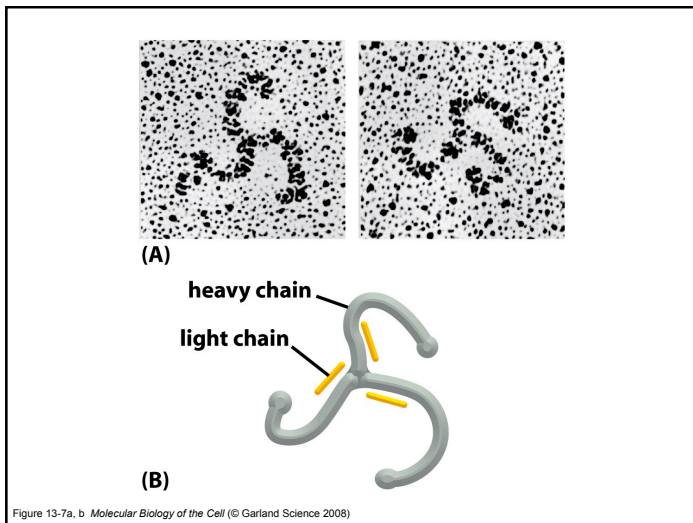
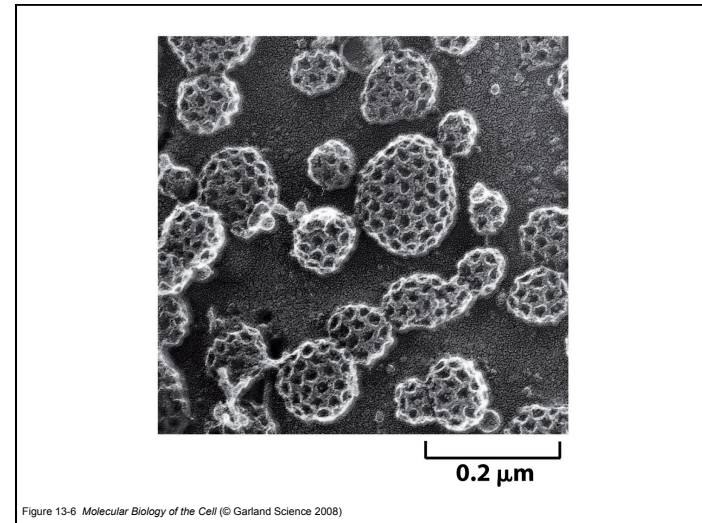
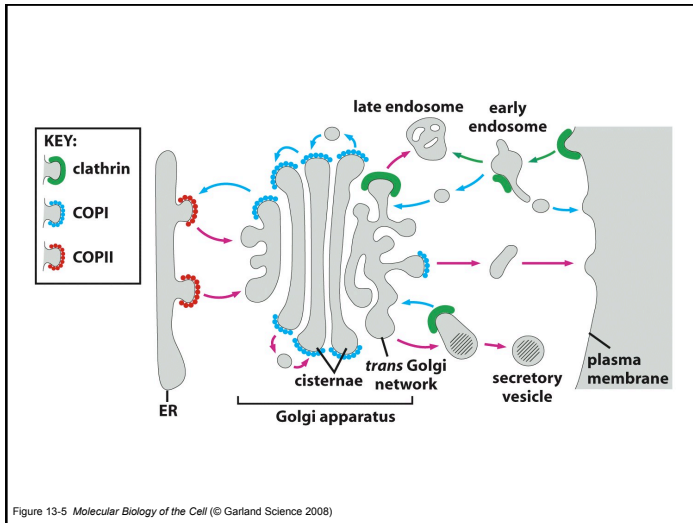




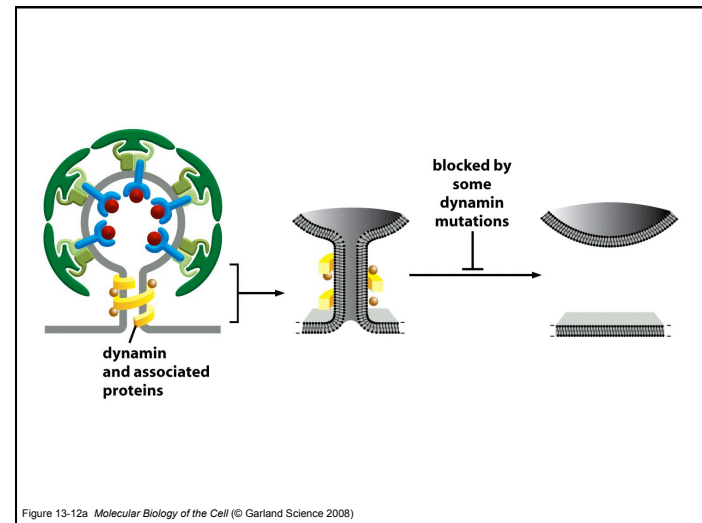
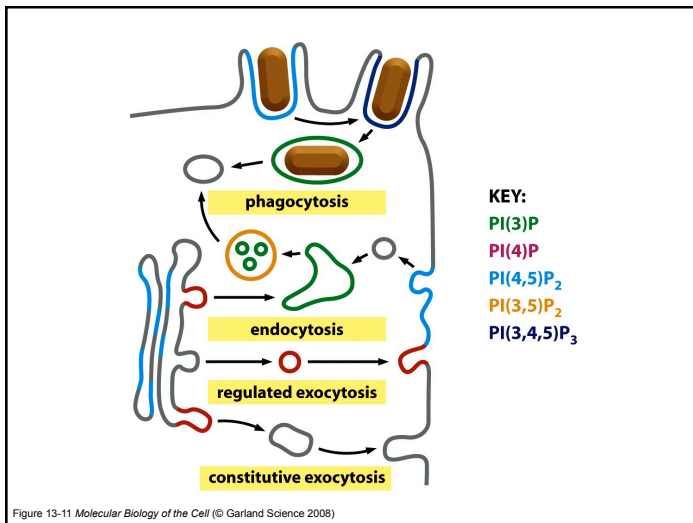
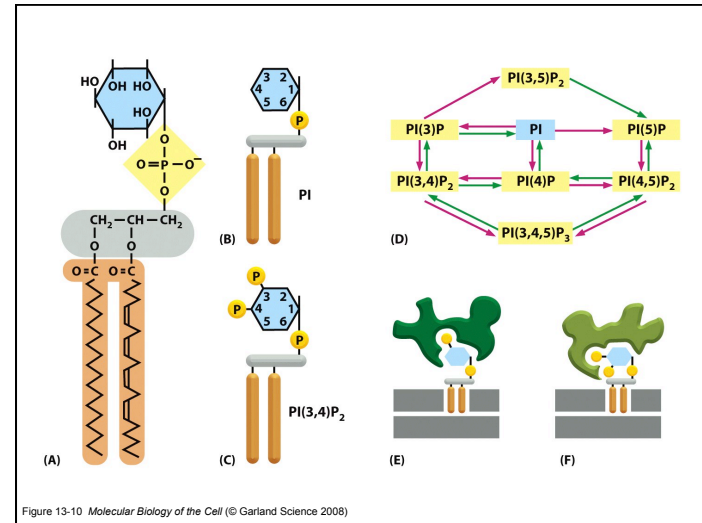
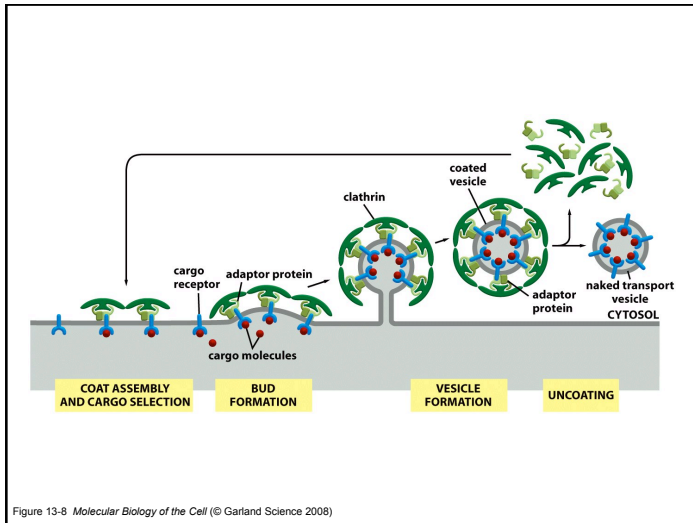


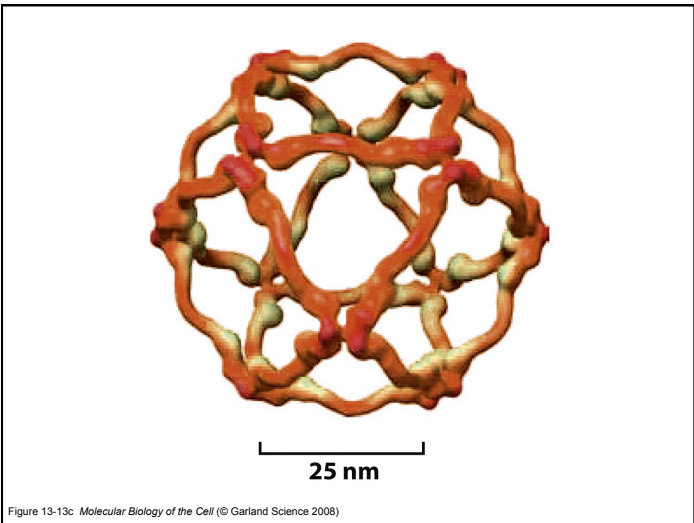
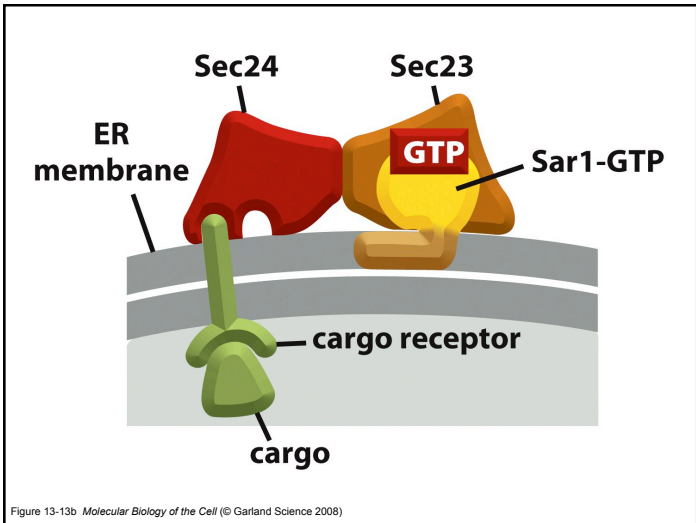
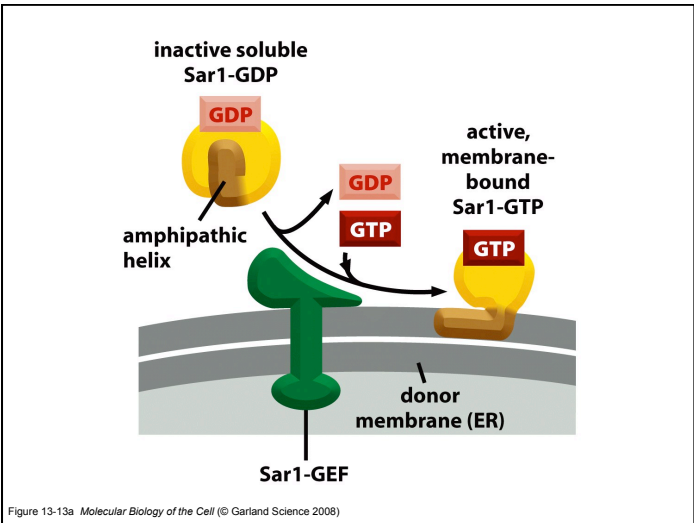
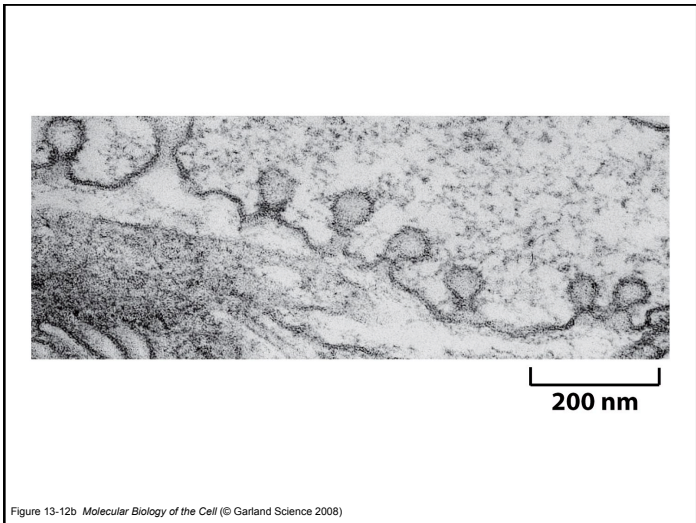


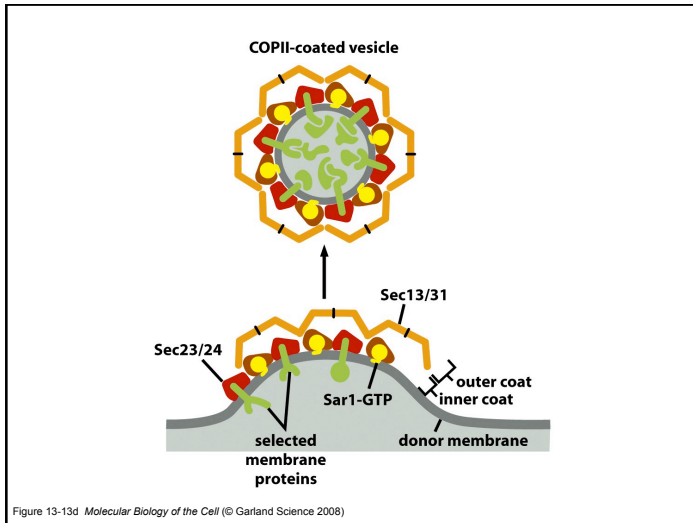












**Table 13-1 Subcellular Locations of Some Rab Proteins**

PROTEIN	ORGANELLE
Rab1	ER and Golgi complex
Rab2	<i>cis</i> Golgi network
Rab3A	synaptic vesicles, secretory granules
Rab4/Rab11	recycling endosomes
Rab5A	plasma membrane, clathrin-coated vesicles, early endosomes
Rab5C	early endosomes
Rab6	medial and <i>trans</i> Golgi cisternae
Rab7	late endosomes
Rab8	early endosomes
Rab9	late endosomes, <i>trans</i> Golgi network

Table 13-1 Molecular Biology of the Cell (© Garland Science 2008)

