

Figure 12-42 *Molecular Biology of the Cell* (© Garland Science 2008)

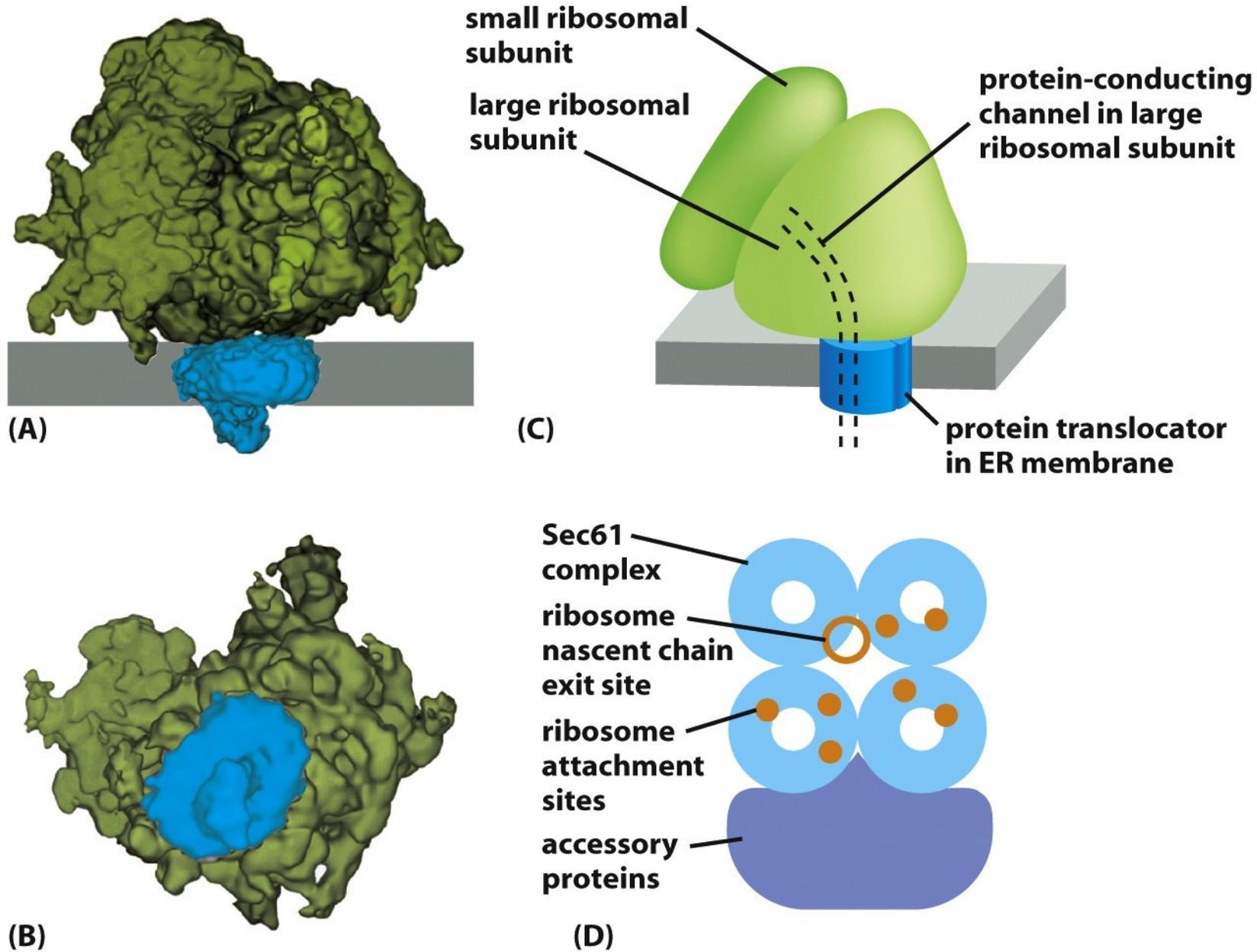
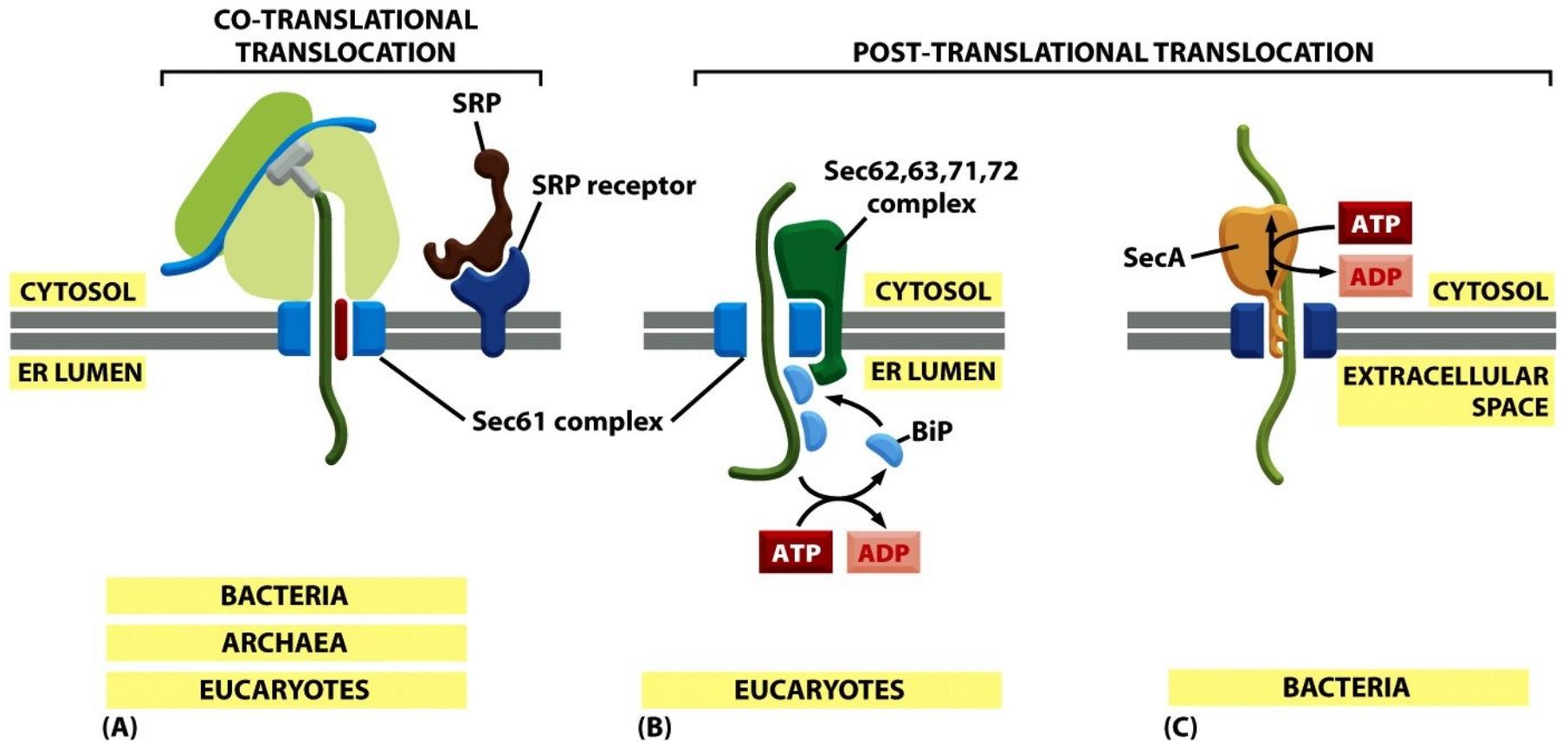
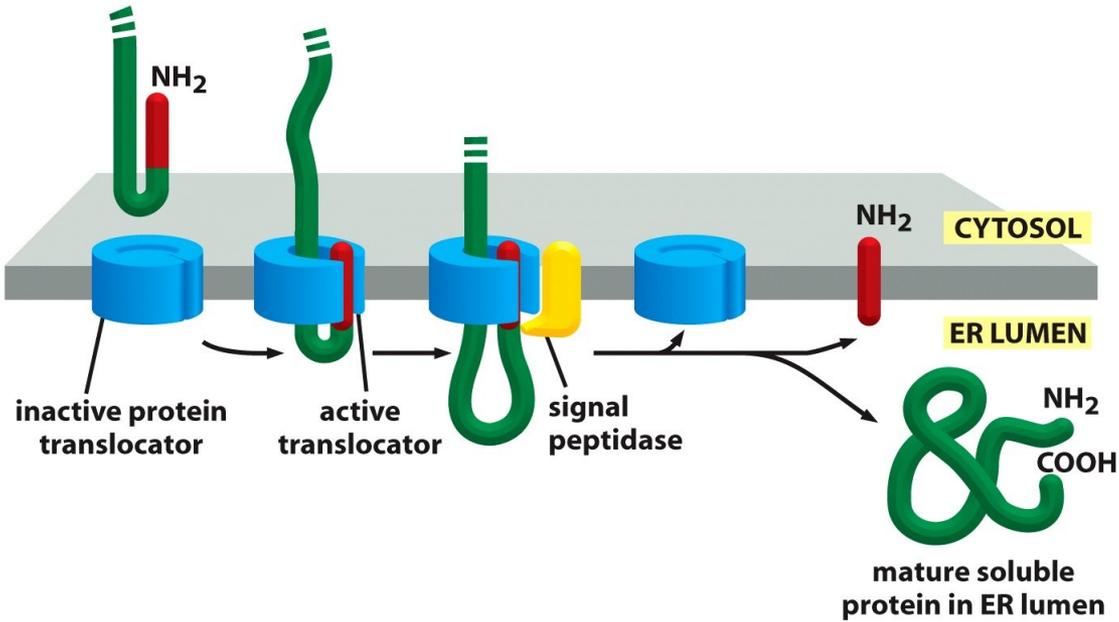


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ER sinyal dizisi transporttan sonra çıkarılır



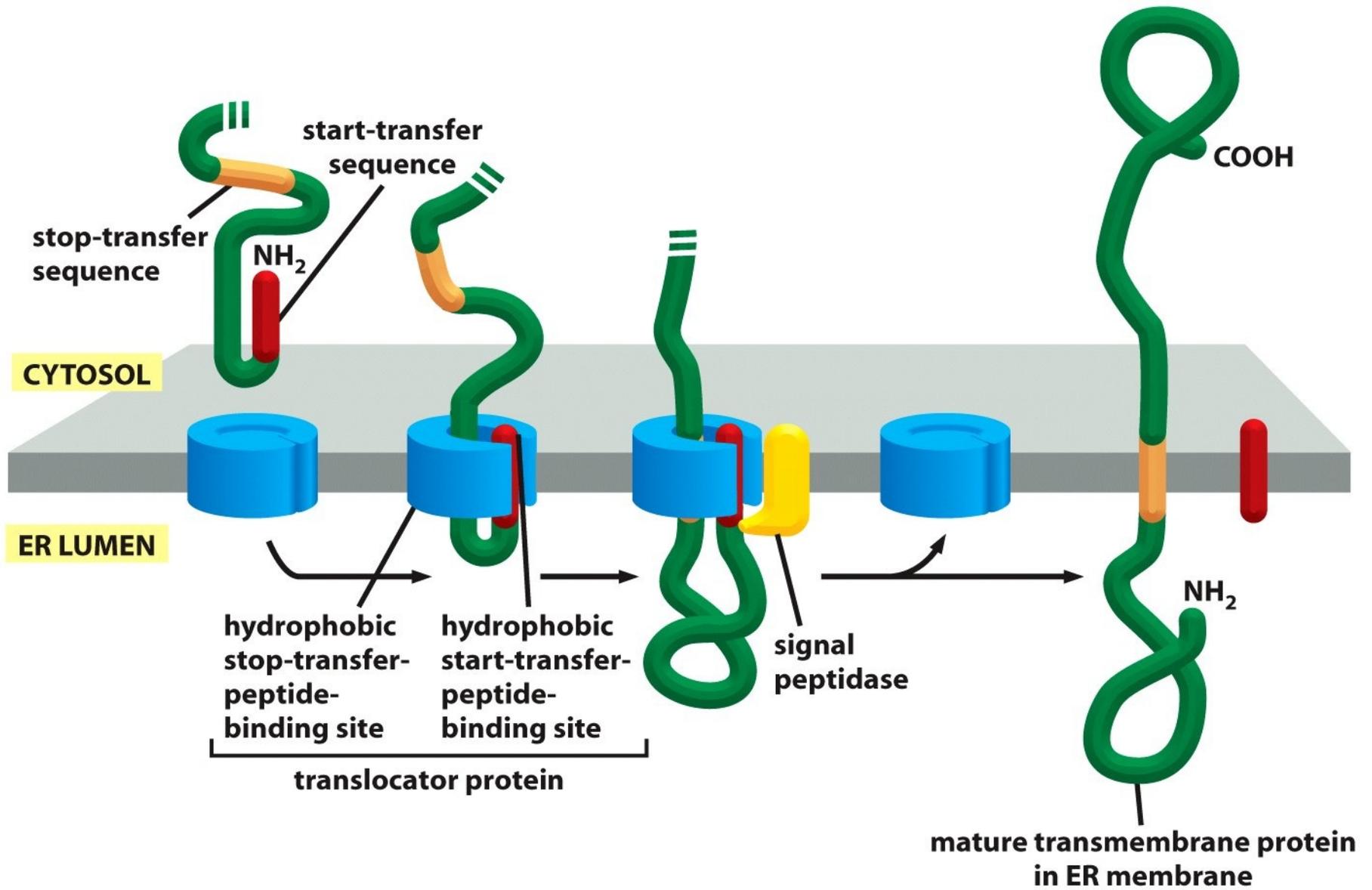


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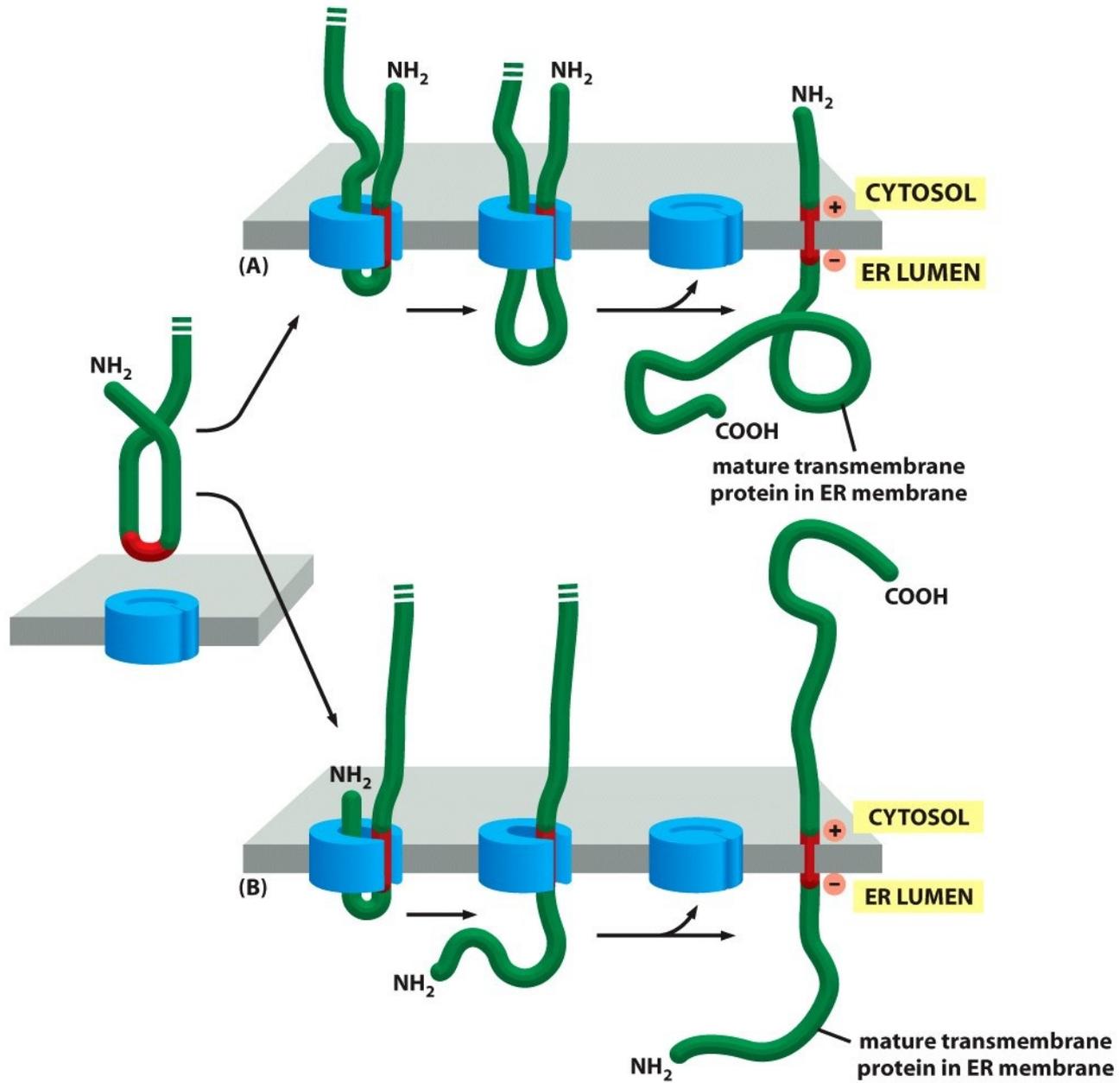
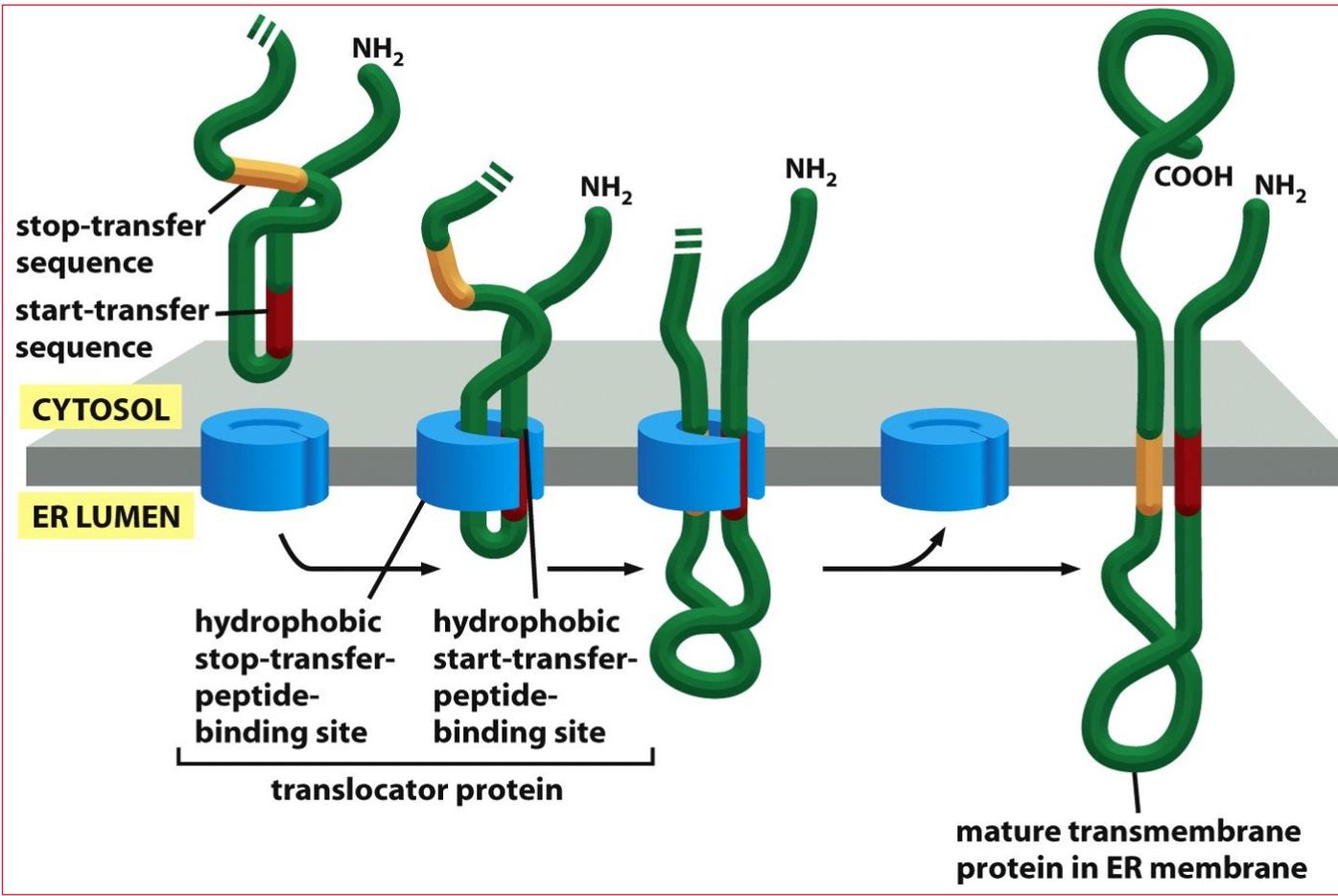


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Yerleşim gerçekleştikten sonra Protein disülfid izomeraz tarafından serbest sülfidril gruplarının yük

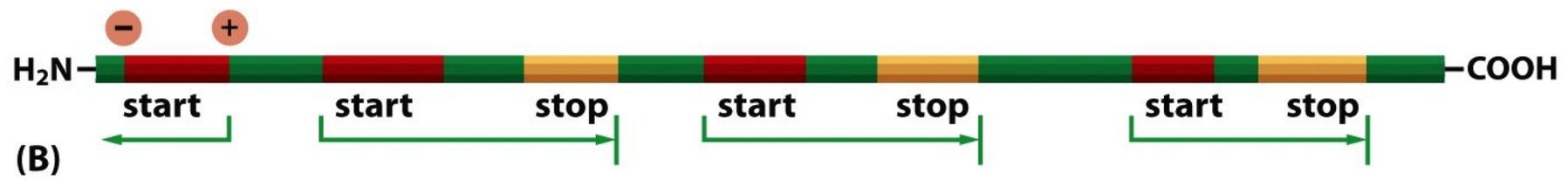
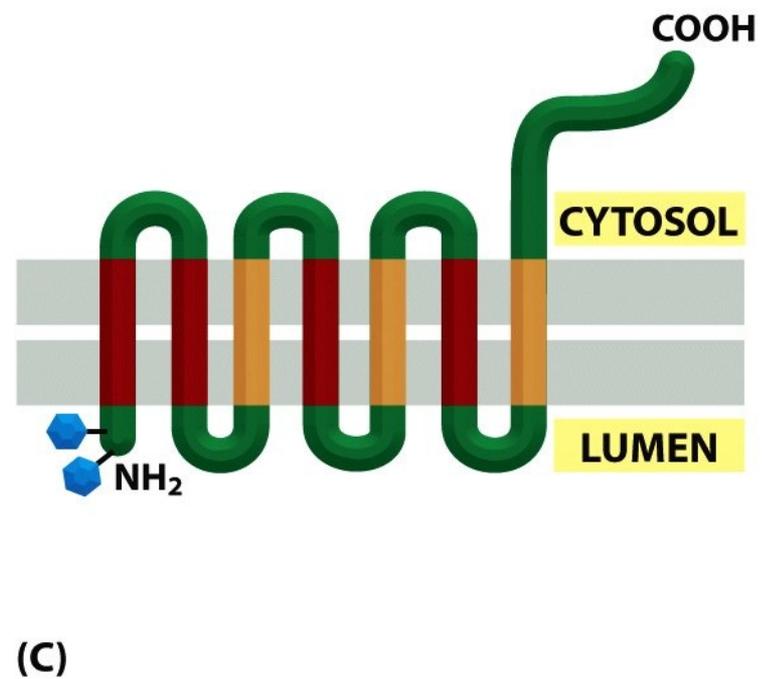
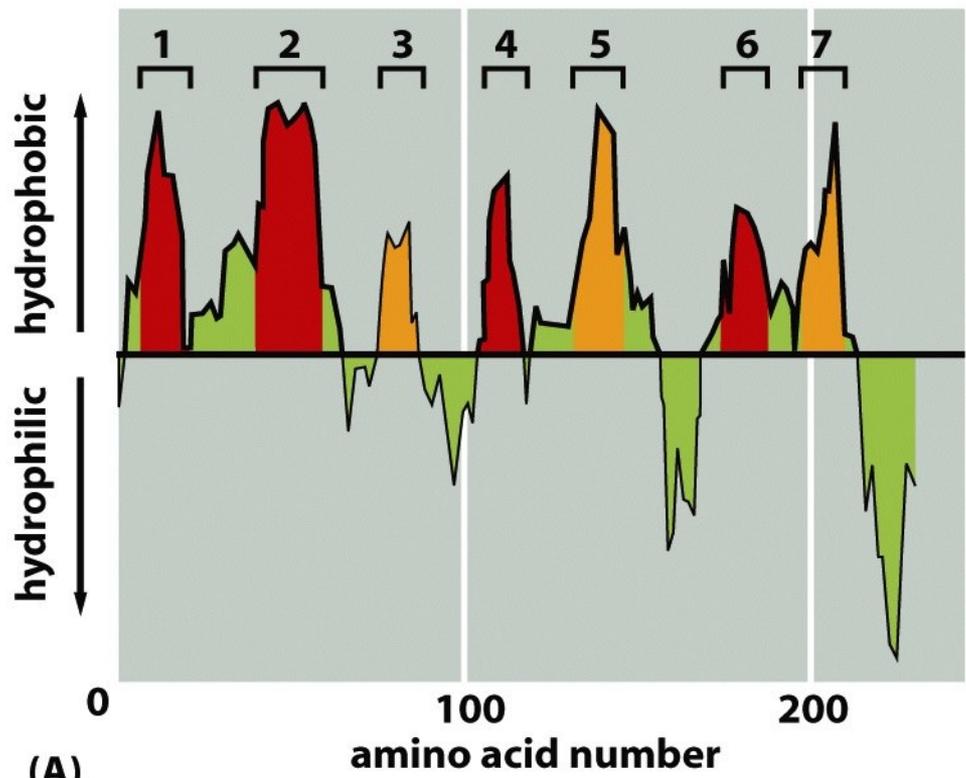
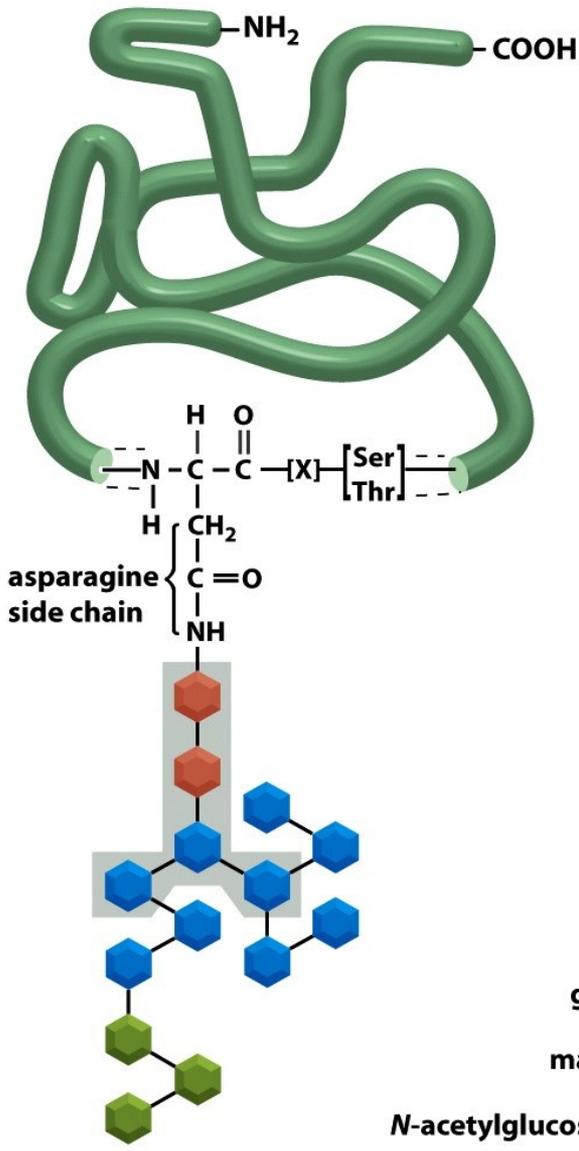
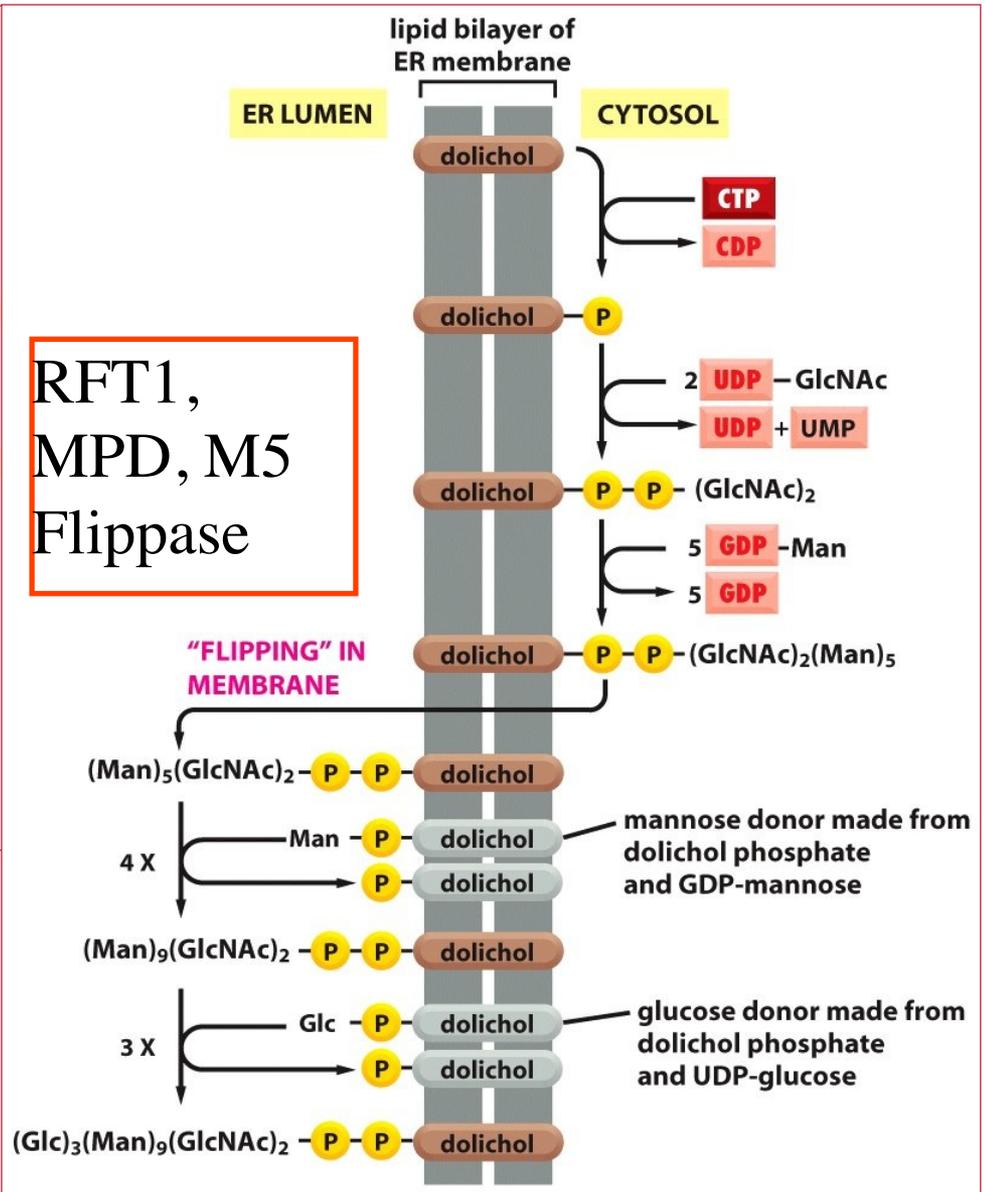
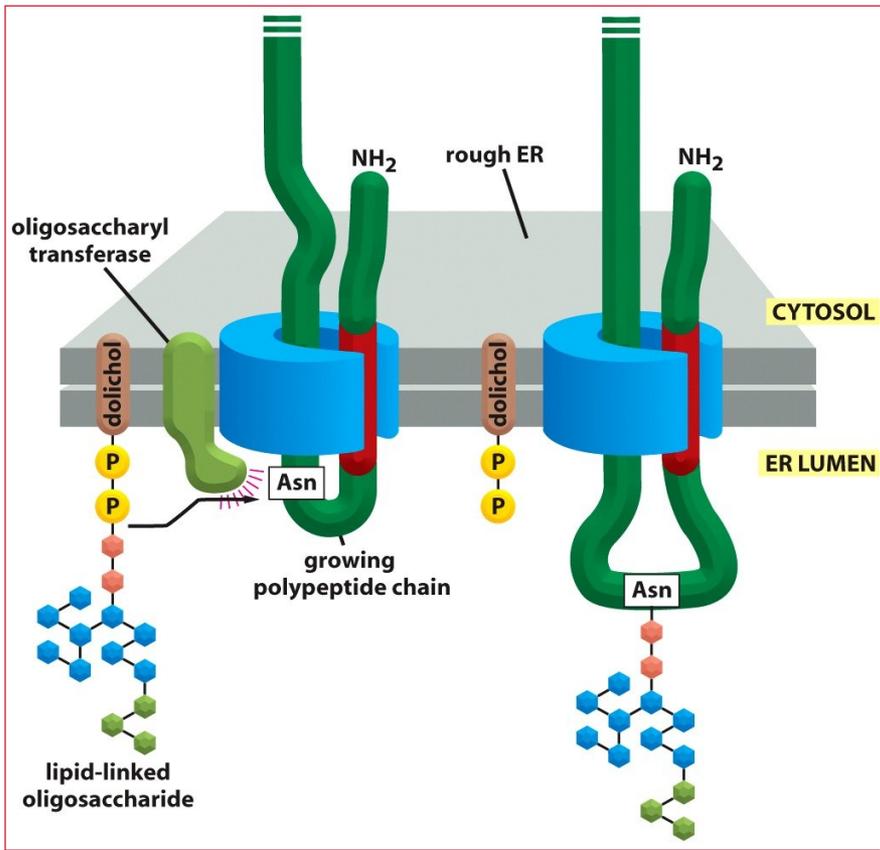


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Proteinlere şekerlerin kovalan olarak eklenmesi ER'da gerçekleşir. Golgiye, plazma zarına ve diğer organellere gönderilenler glikoproteinlerdir. Sitolde kalanların ise Serin yada treonin gruplarına N-asetilglukozamin takılır. ER lümeninde yerleşik olan Oligosakkarit transferaz tarafından takılır, bu yüzden sitozol tarafları glikozillenmez.

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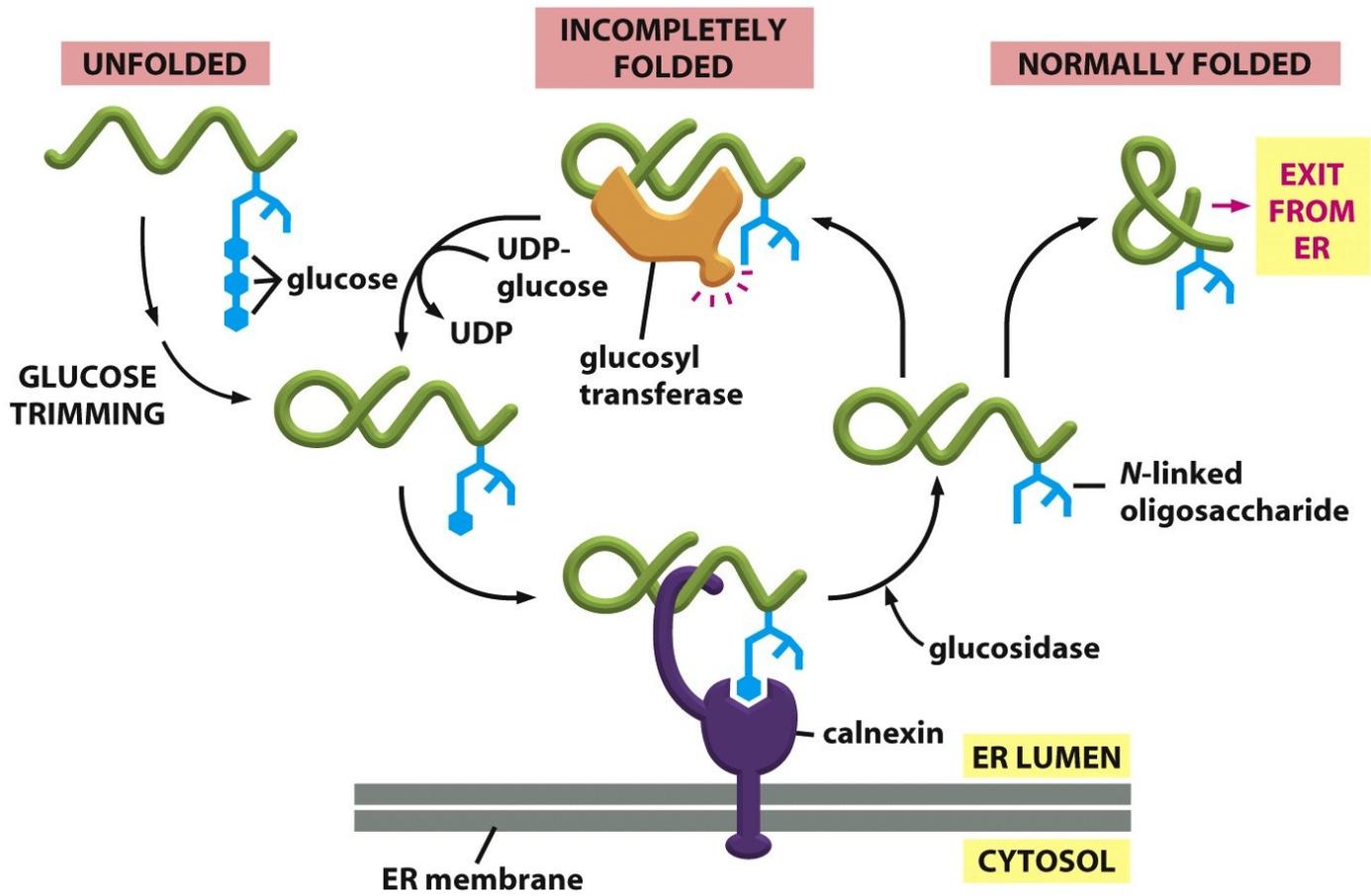


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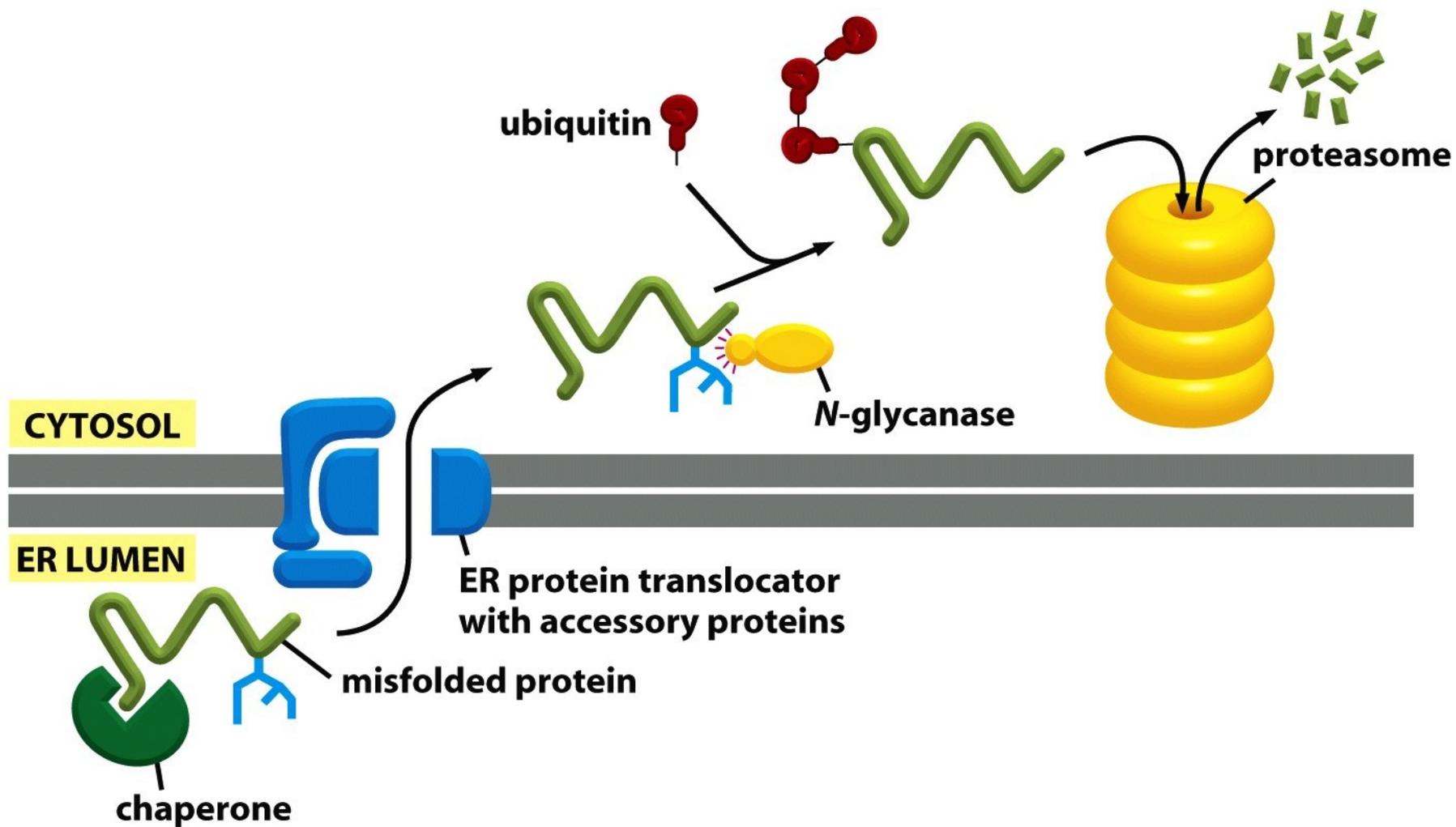
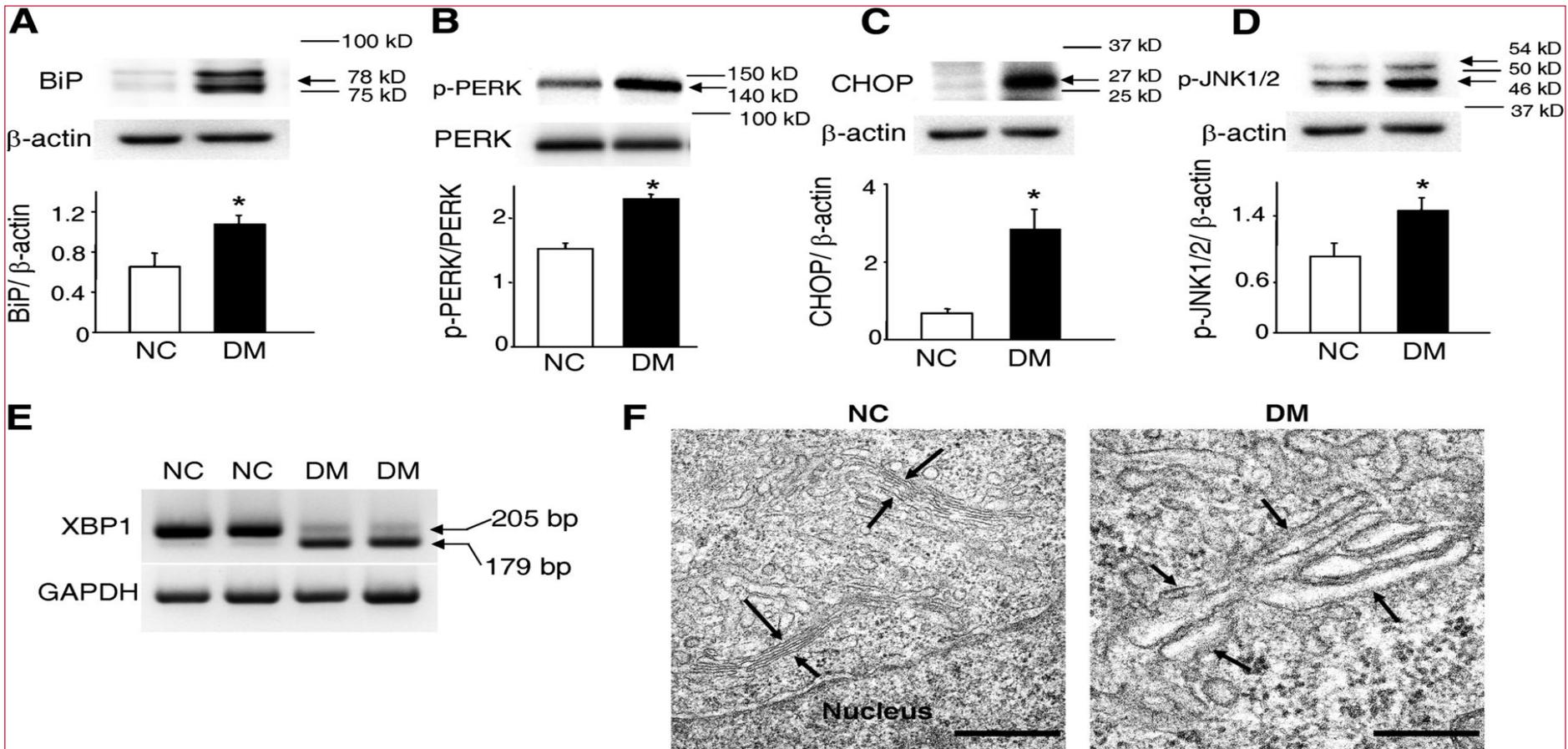
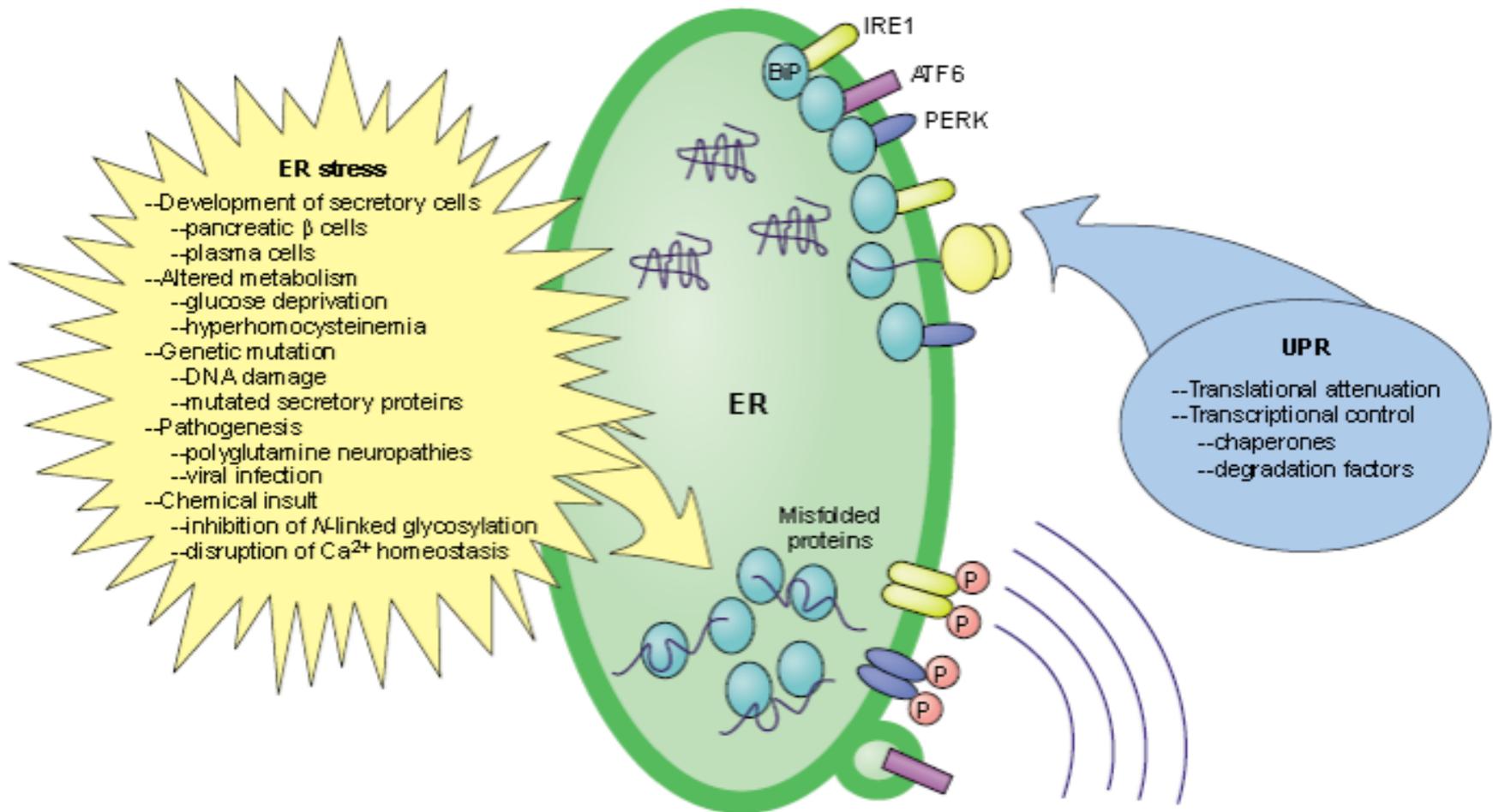


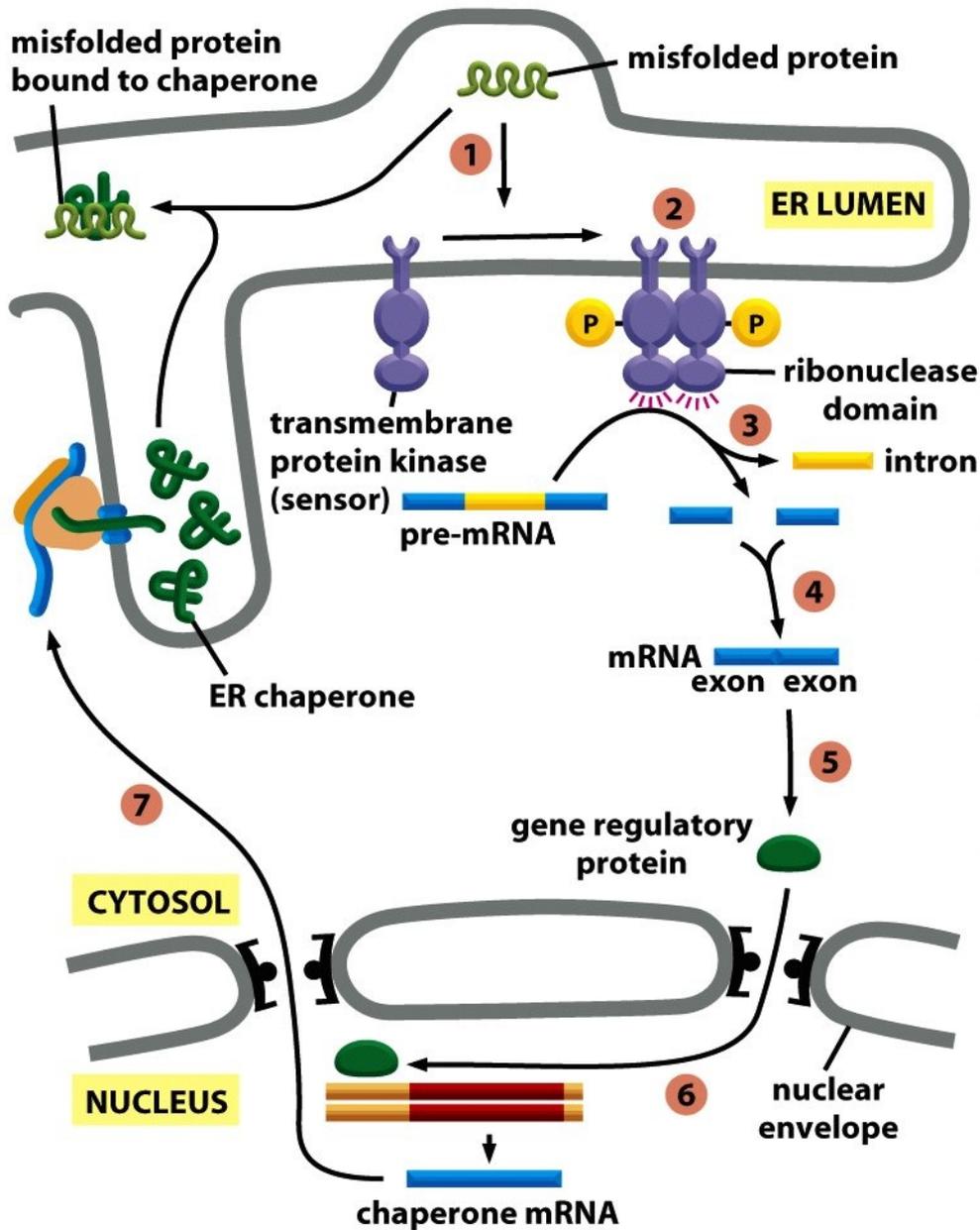
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Endoplazmik Retikulum Stresi



TRENDS in Cell Biology



1 MISFOLDED PROTEINS IN ER SIGNAL THE NEED FOR MORE ER CHAPERONES BY ACTIVATING A TRANSMEMBRANE KINASE

2 ACTIVATED KINASE TURNS INTO AN ENDORIBONUCLEASE

3 ENDORIBONUCLEASE CUTS SPECIFIC RNA MOLECULES AT TWO POSITIONS, REMOVING AN INTRON

4 TWO EXONS ARE LIGATED TO FORM AN ACTIVE mRNA

5 mRNA IS TRANSLATED TO MAKE A GENE REGULATORY PROTEIN

6 GENE REGULATORY PROTEIN ENTERS NUCLEUS AND ACTIVATES GENES ENCODING ER CHAPERONES

7 CHAPERONES ARE MADE IN ER, WHERE THEY HELP FOLD PROTEINS

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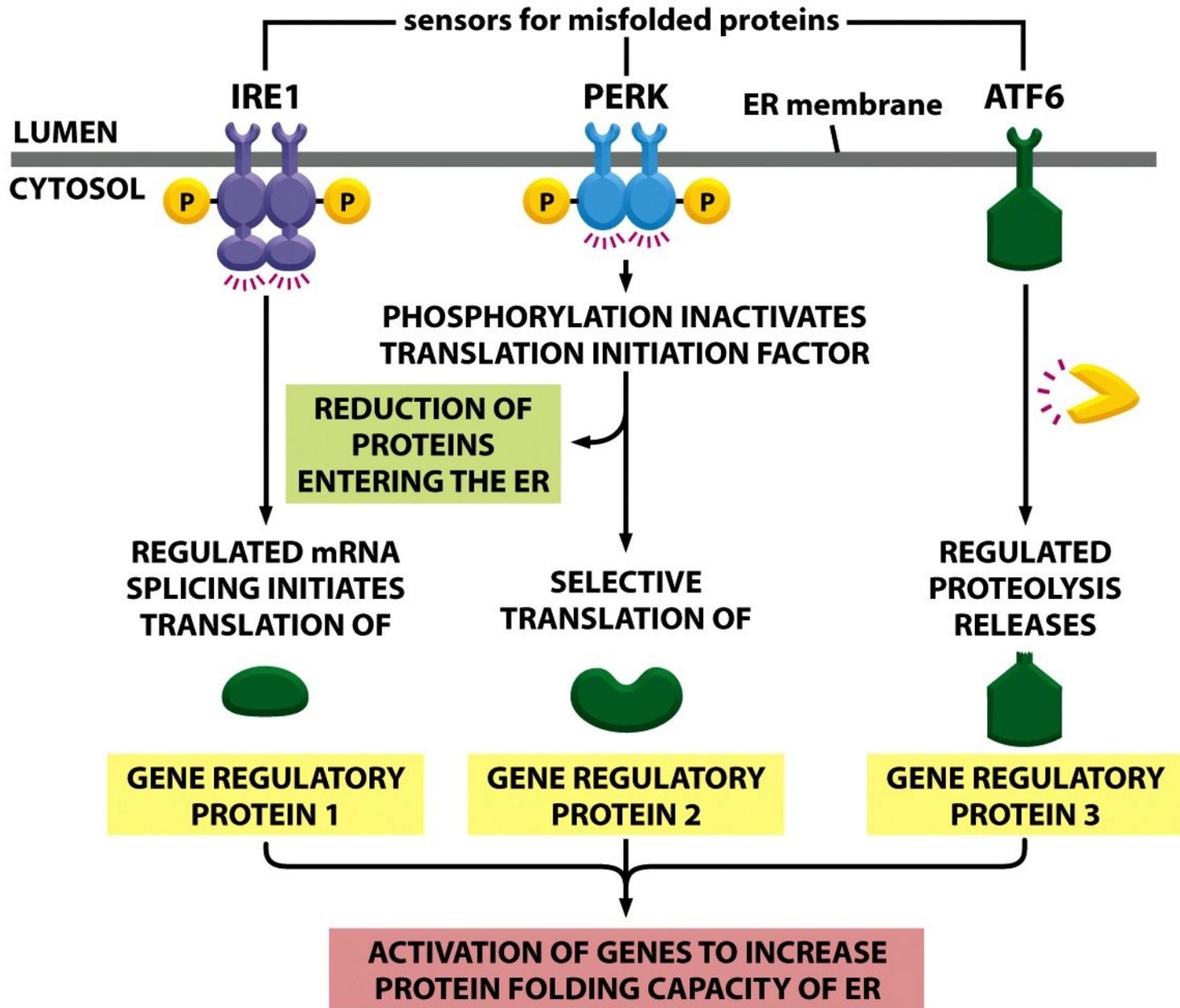
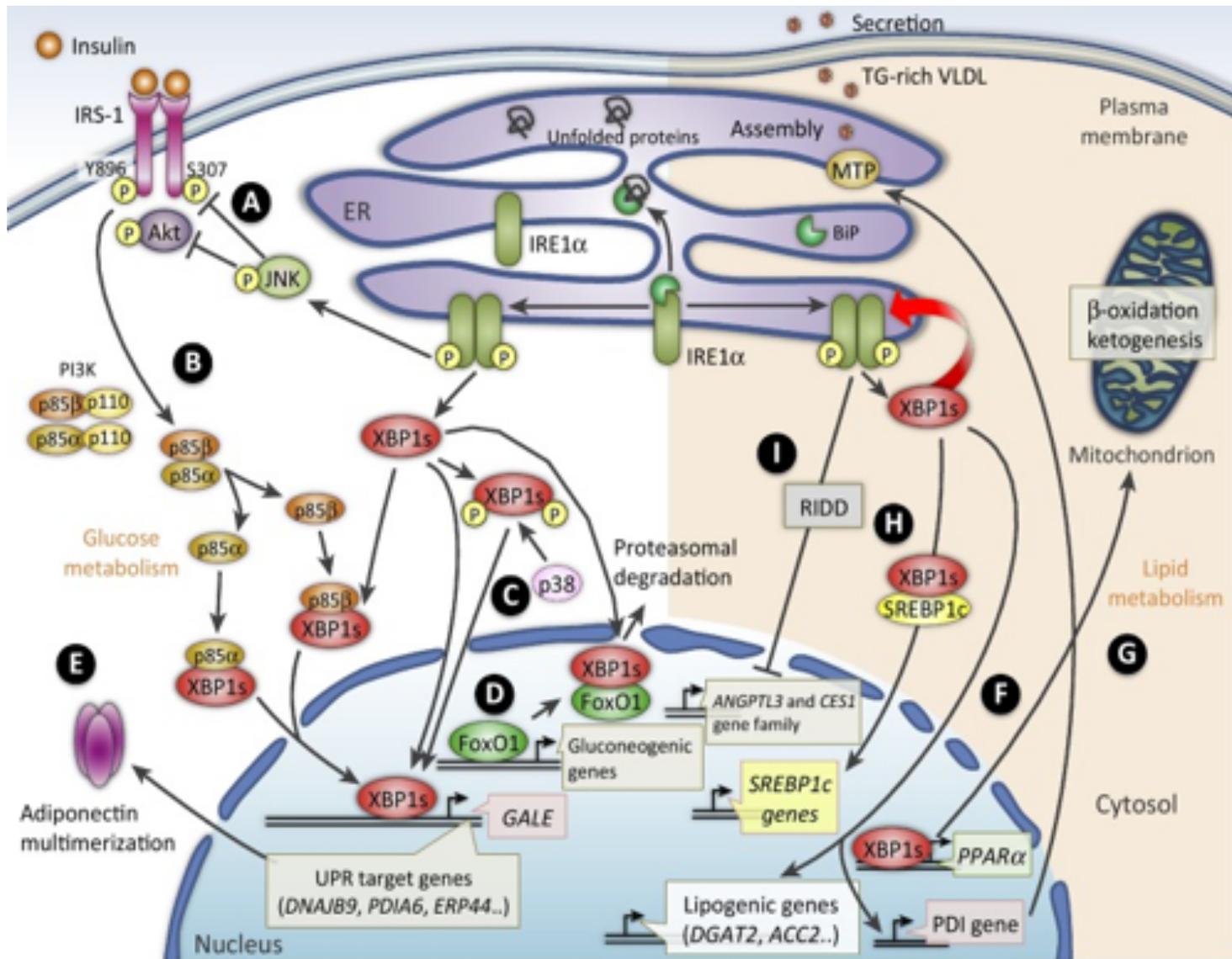


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Trends in Endocrinology & Metabolism

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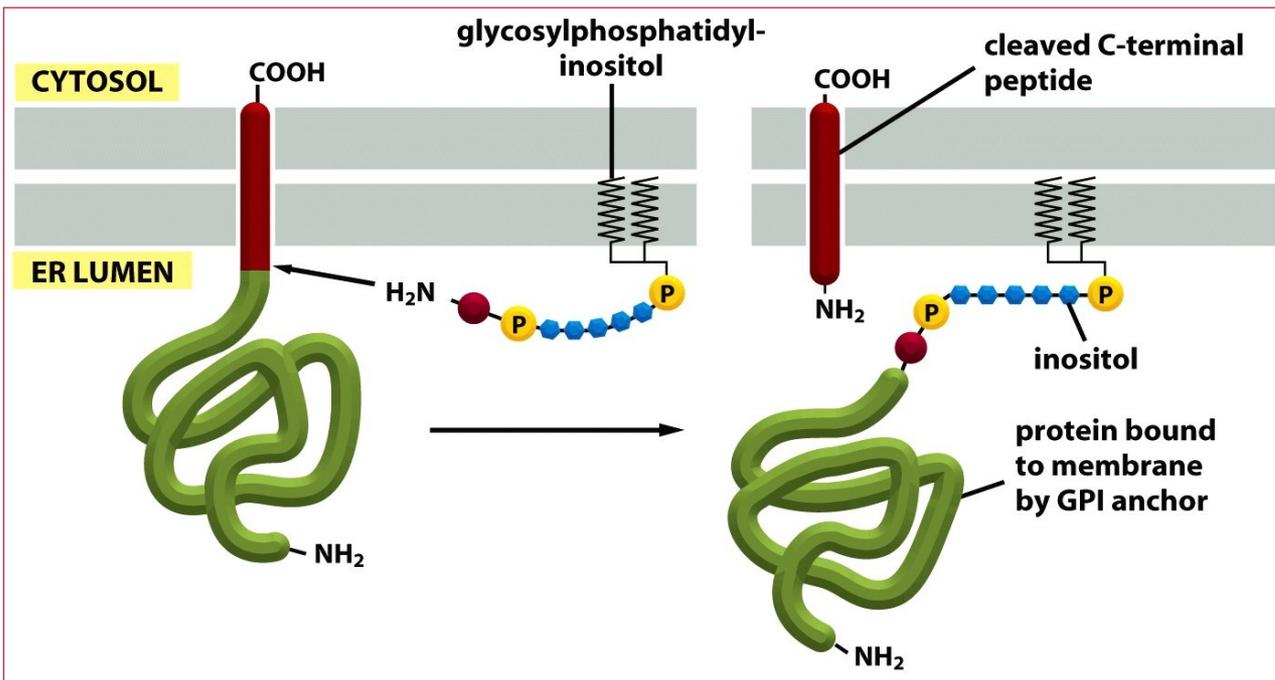
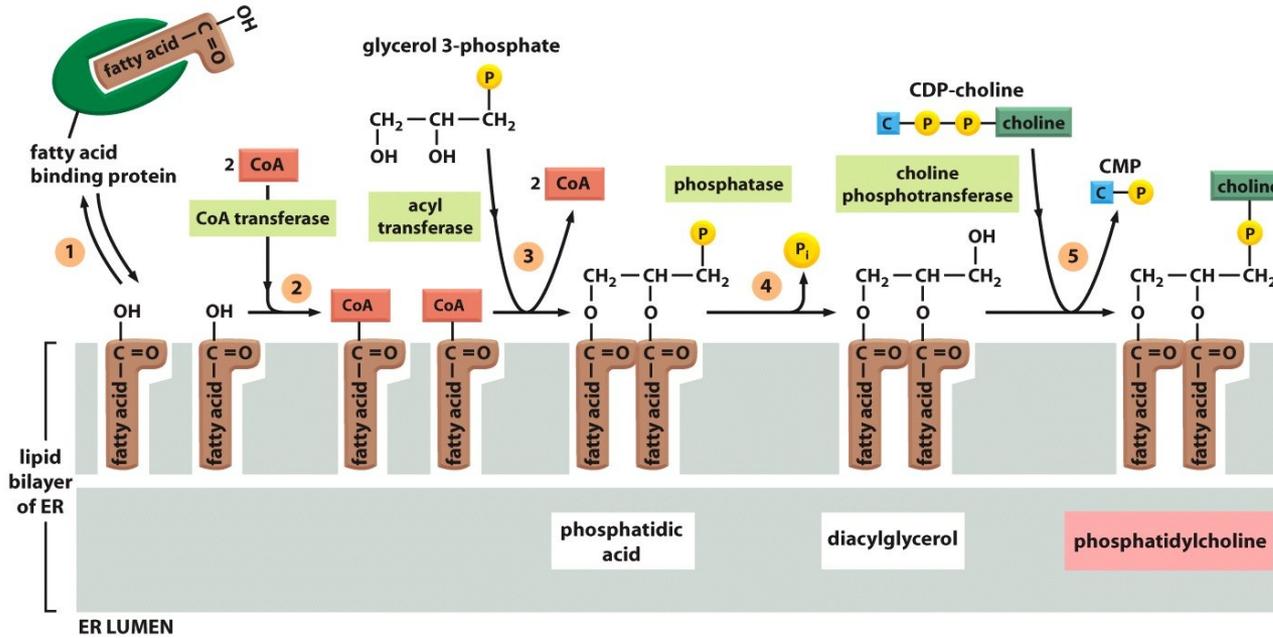
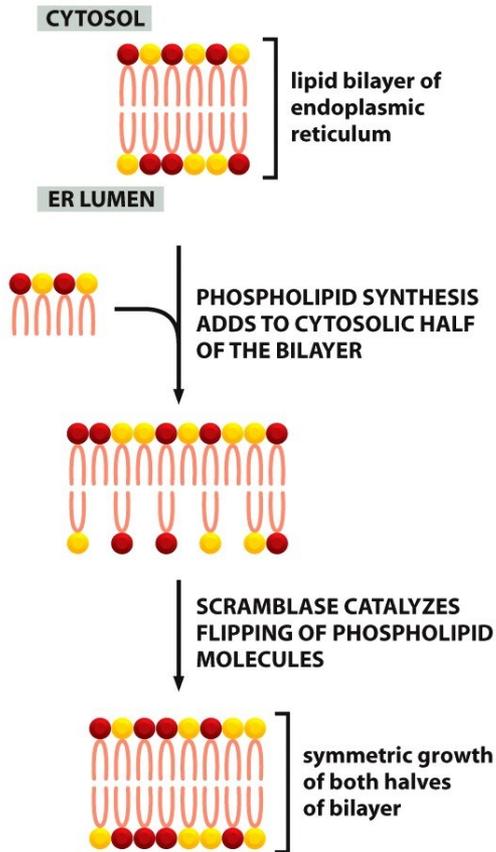


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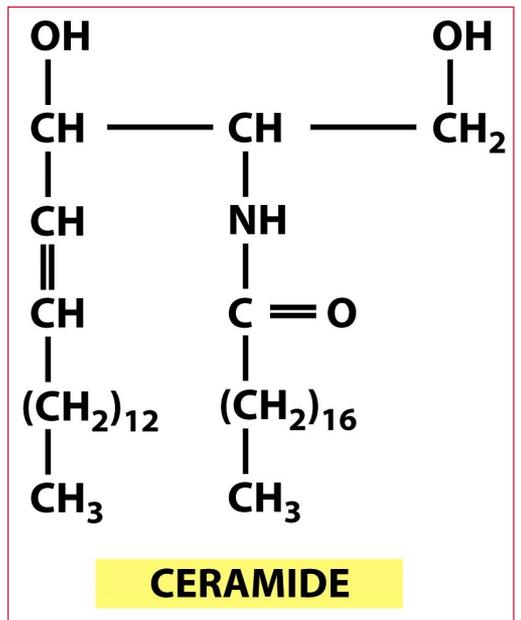
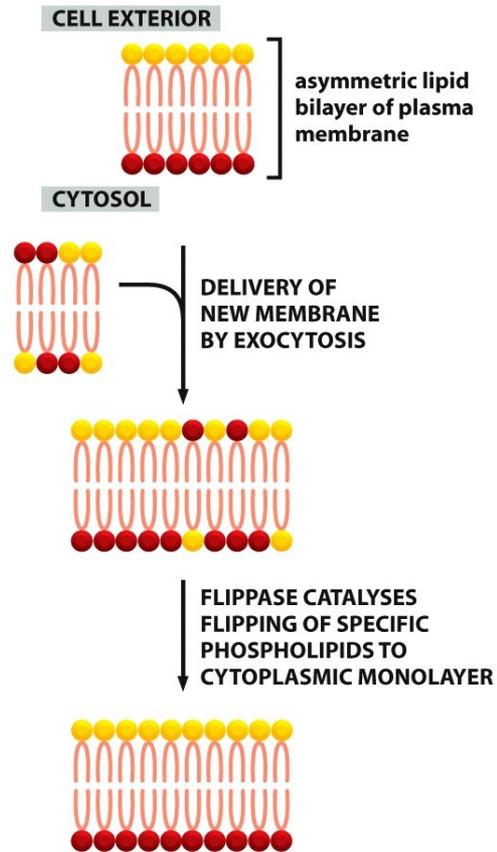


Lipid çift katmanın çoğu ER'da yapılır

(A) ER MEMBRANE



(B) PLASMA MEMBRANE



Serin aminoasitinden sfingozin amino alkolüne iki molekül yağ asiti eklenerek golgiye gönderilir. sfingomiyelin oluşturmak için yeni membran sentezinde kullanılır