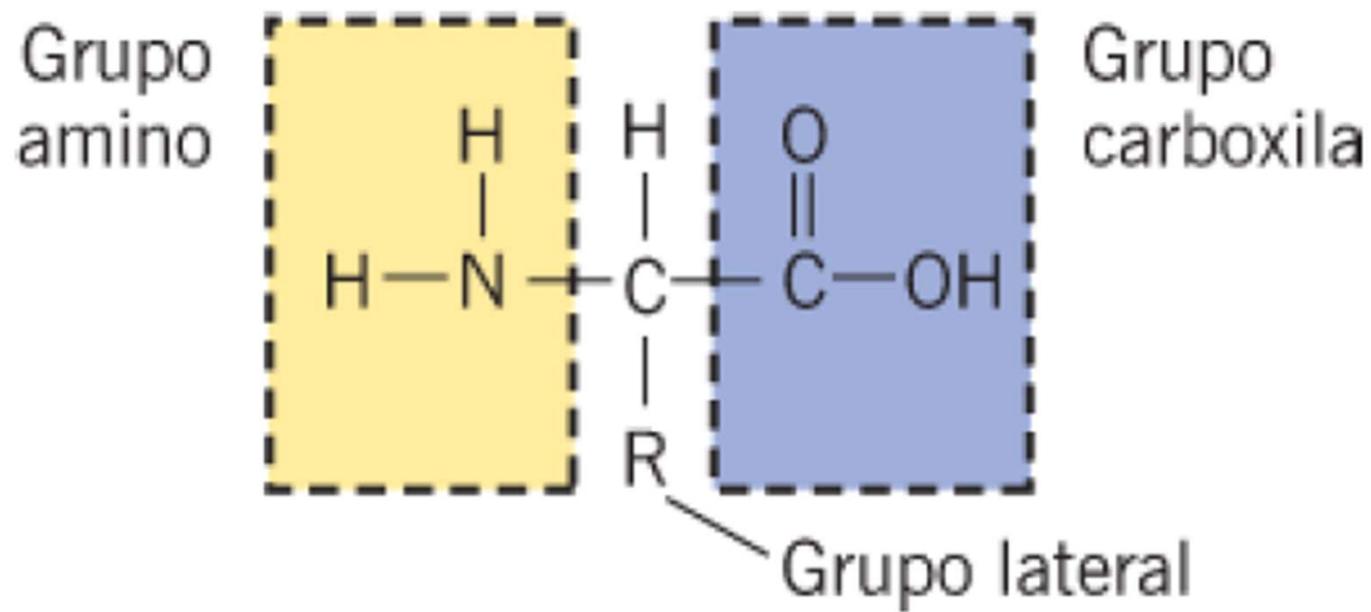


Tradução de proteínas

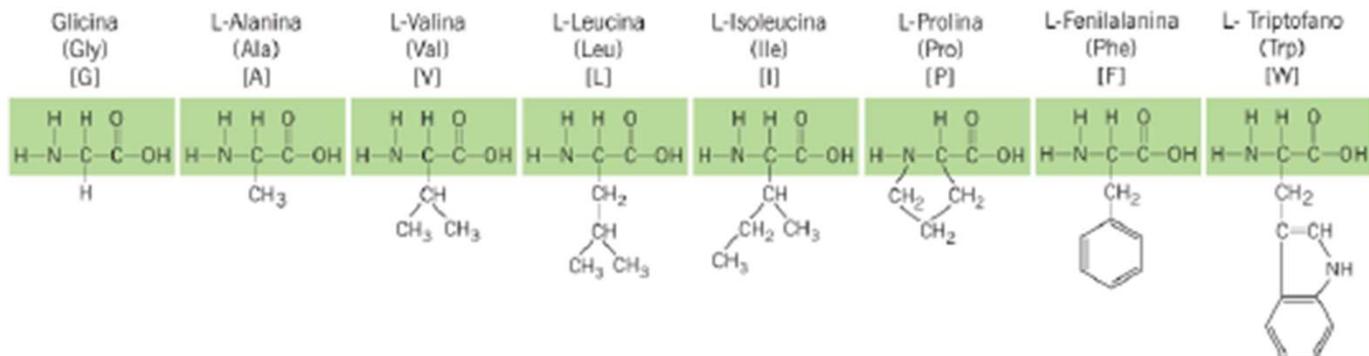


Eye of Science/Photo Researchers.

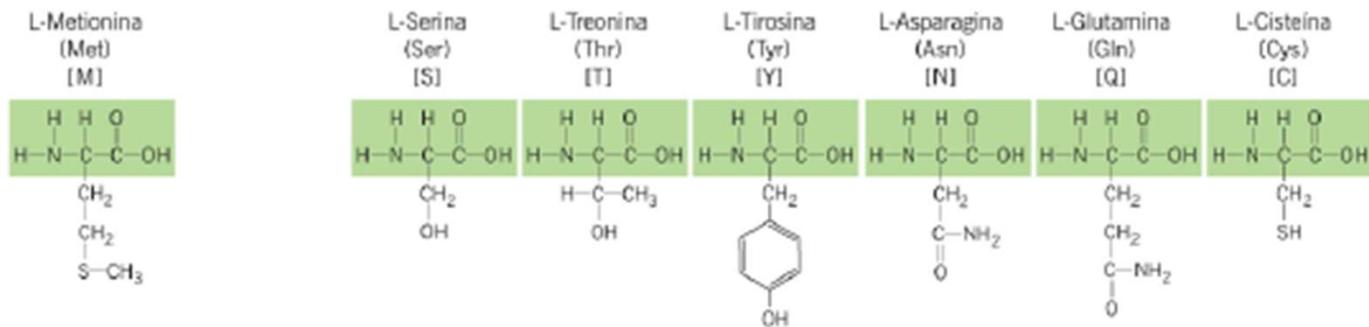
Micrografia eletrônica de varredura de hemácias normais e afoiçadas em paciente com anemia falciforme.



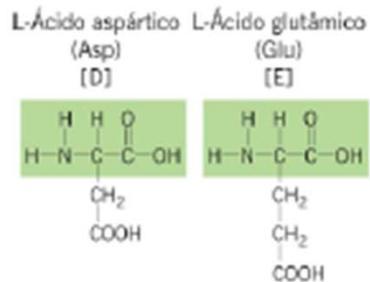
1. Grupos laterais hidrofóbicos ou apolares



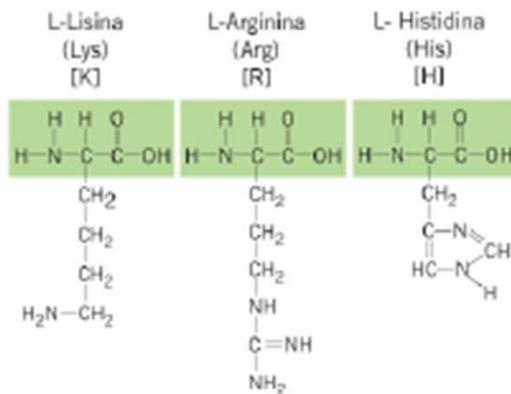
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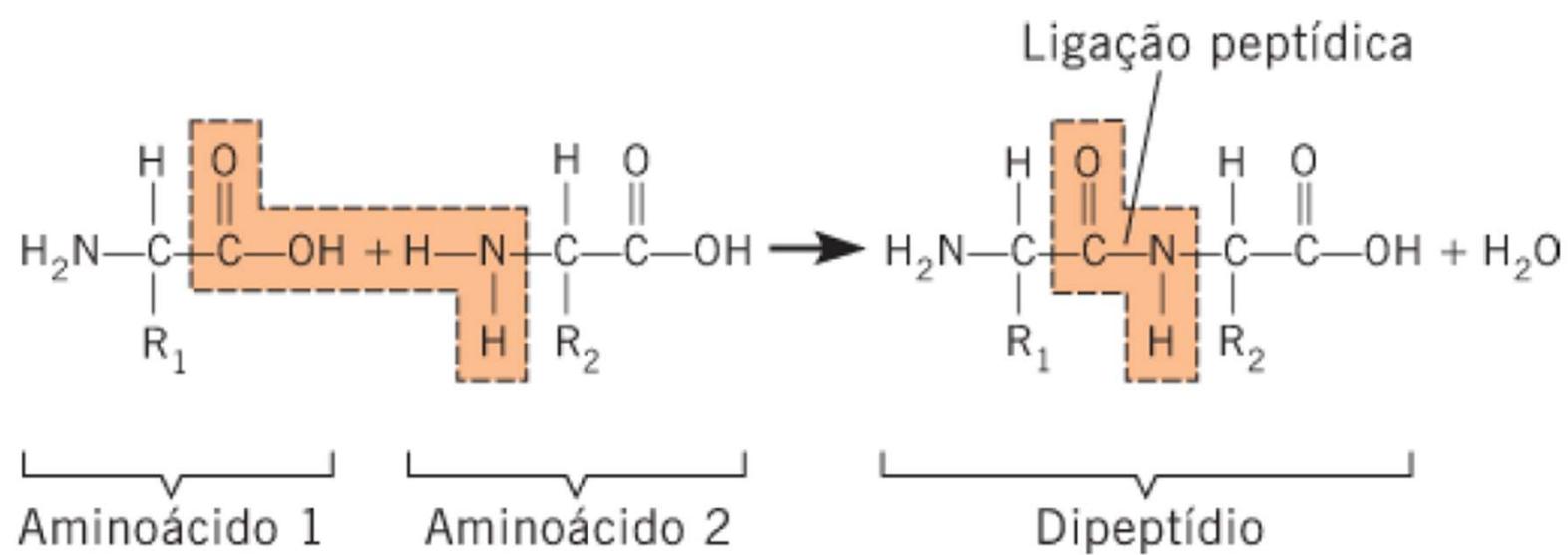


3. Grupos laterais ácidos

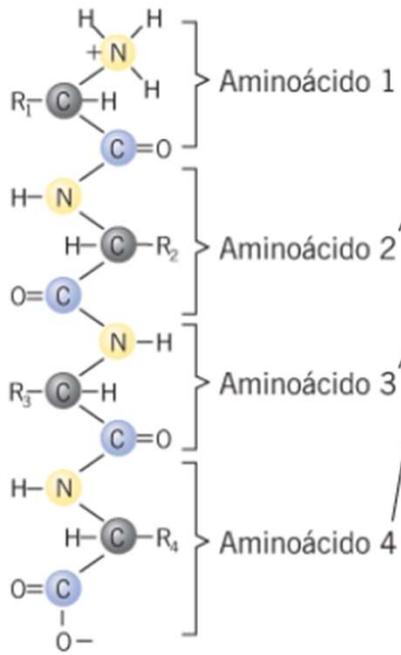


4. Grupos laterais básicos

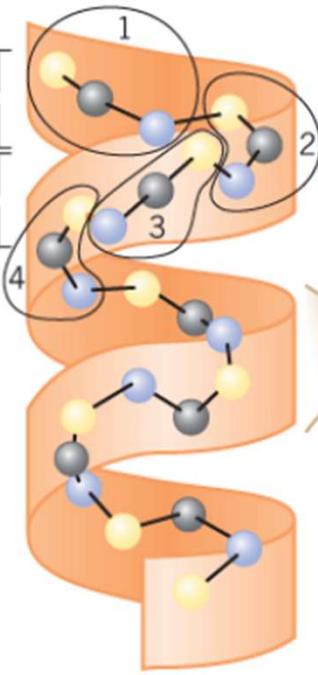




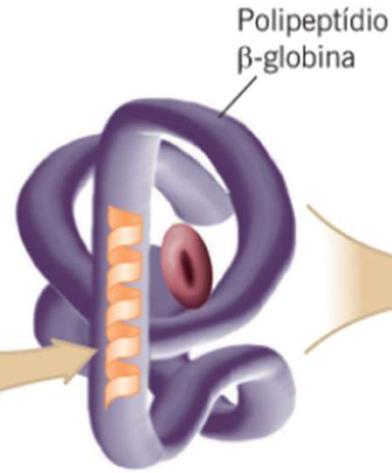
Estrutura primária



Estrutura secundária (hélice α)



Estrutura terciária



Estrutura quaternária

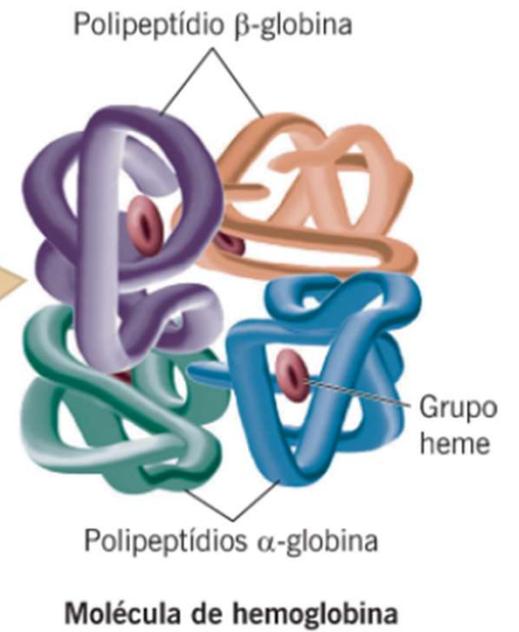
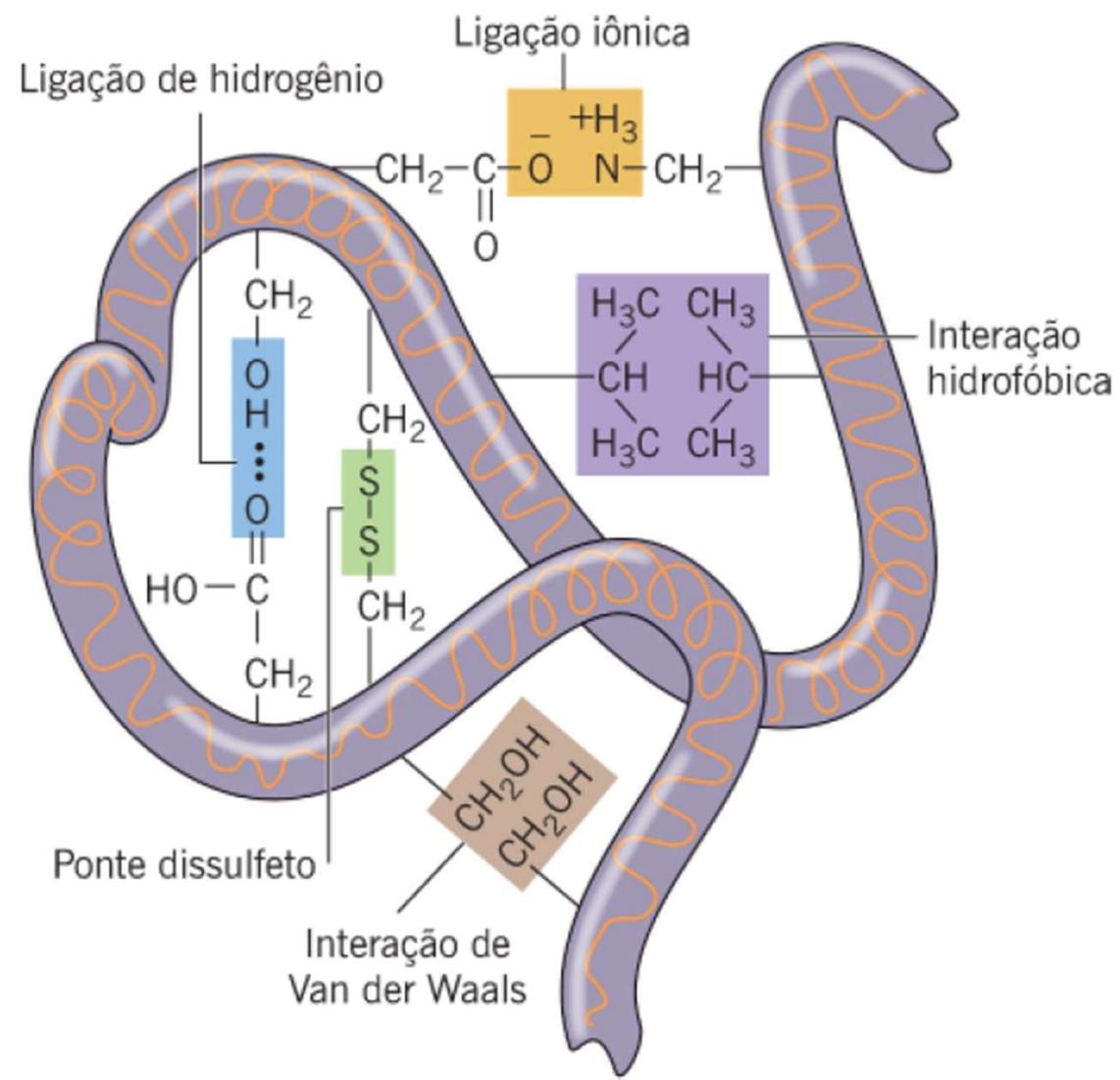
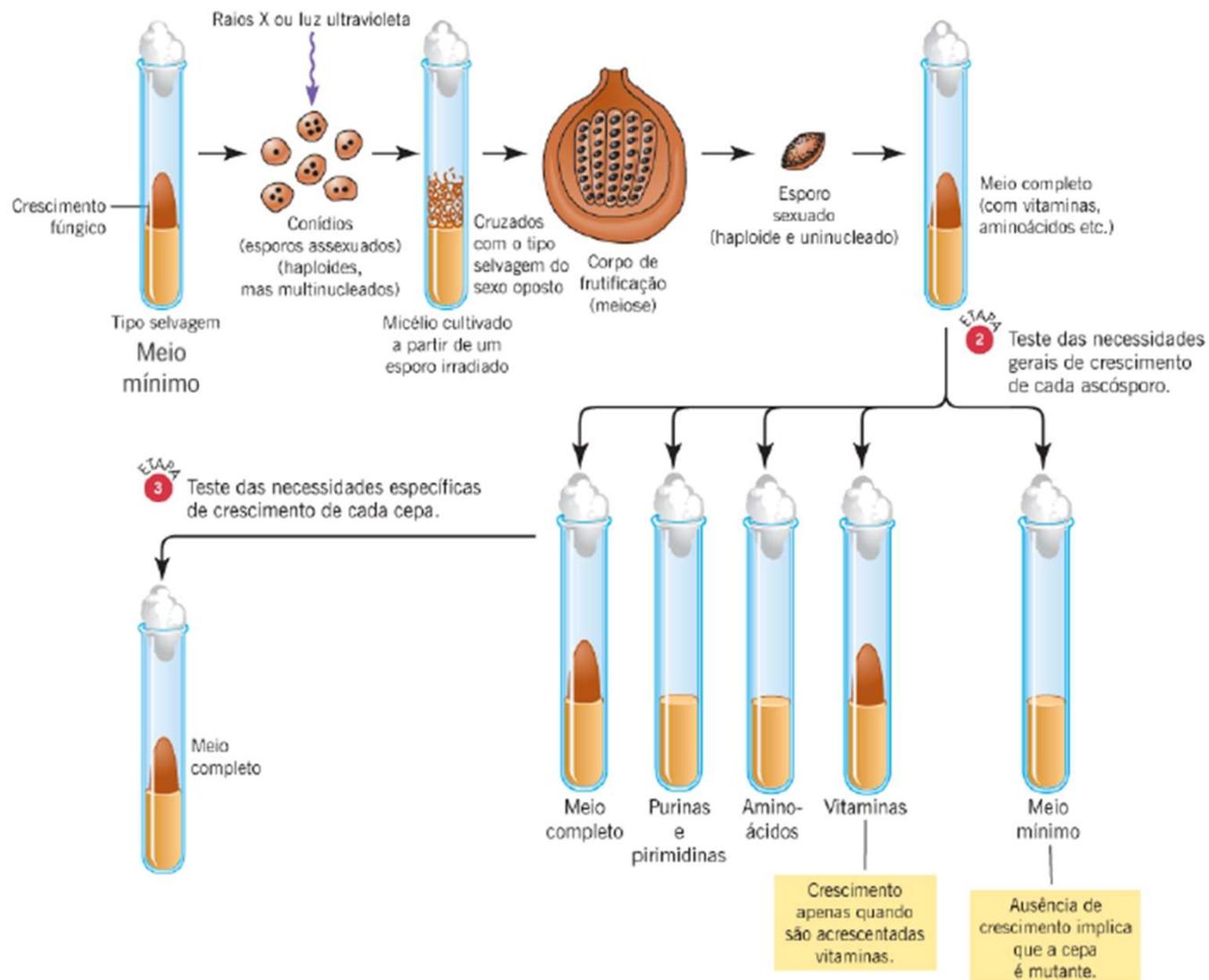
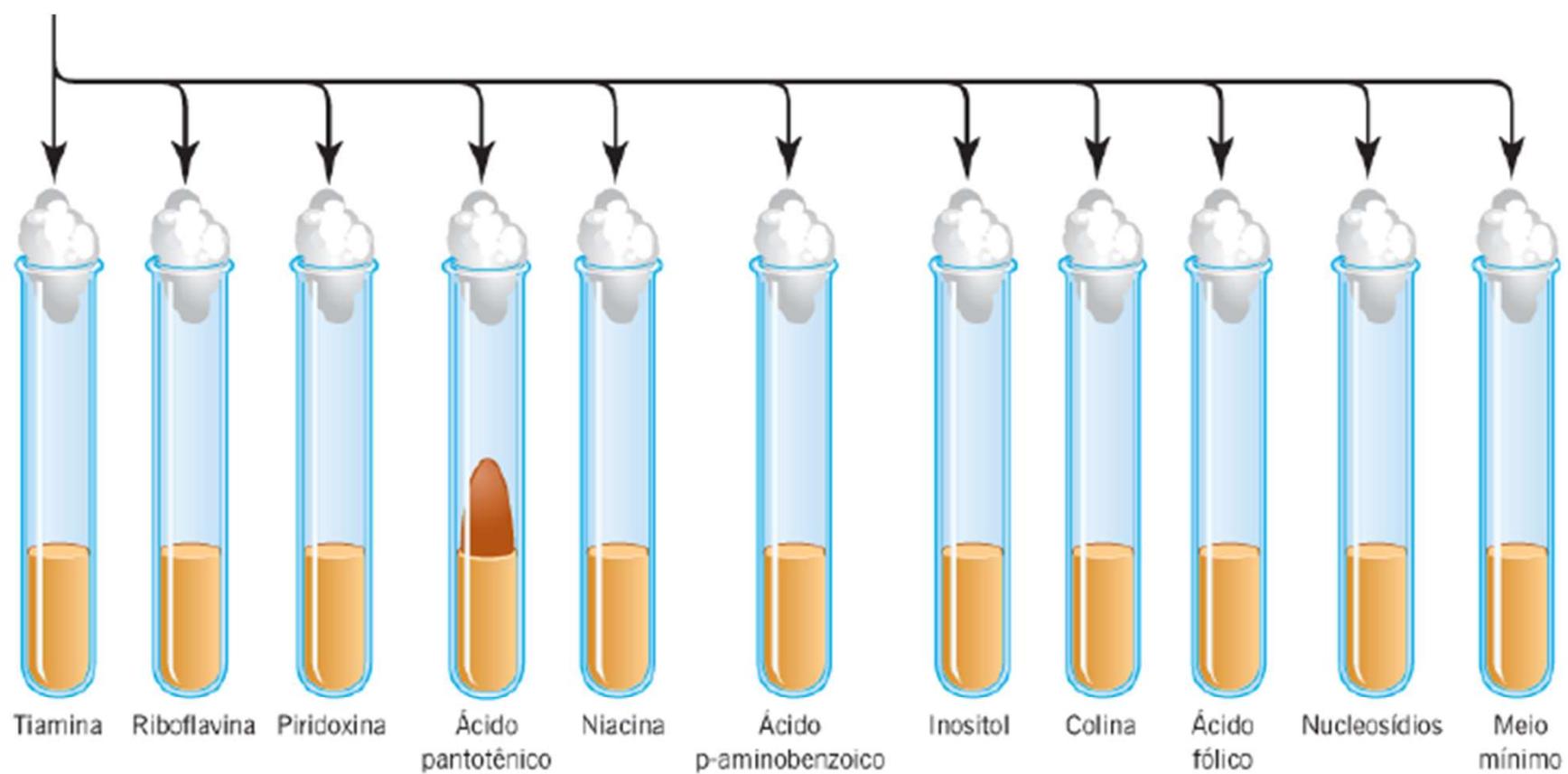


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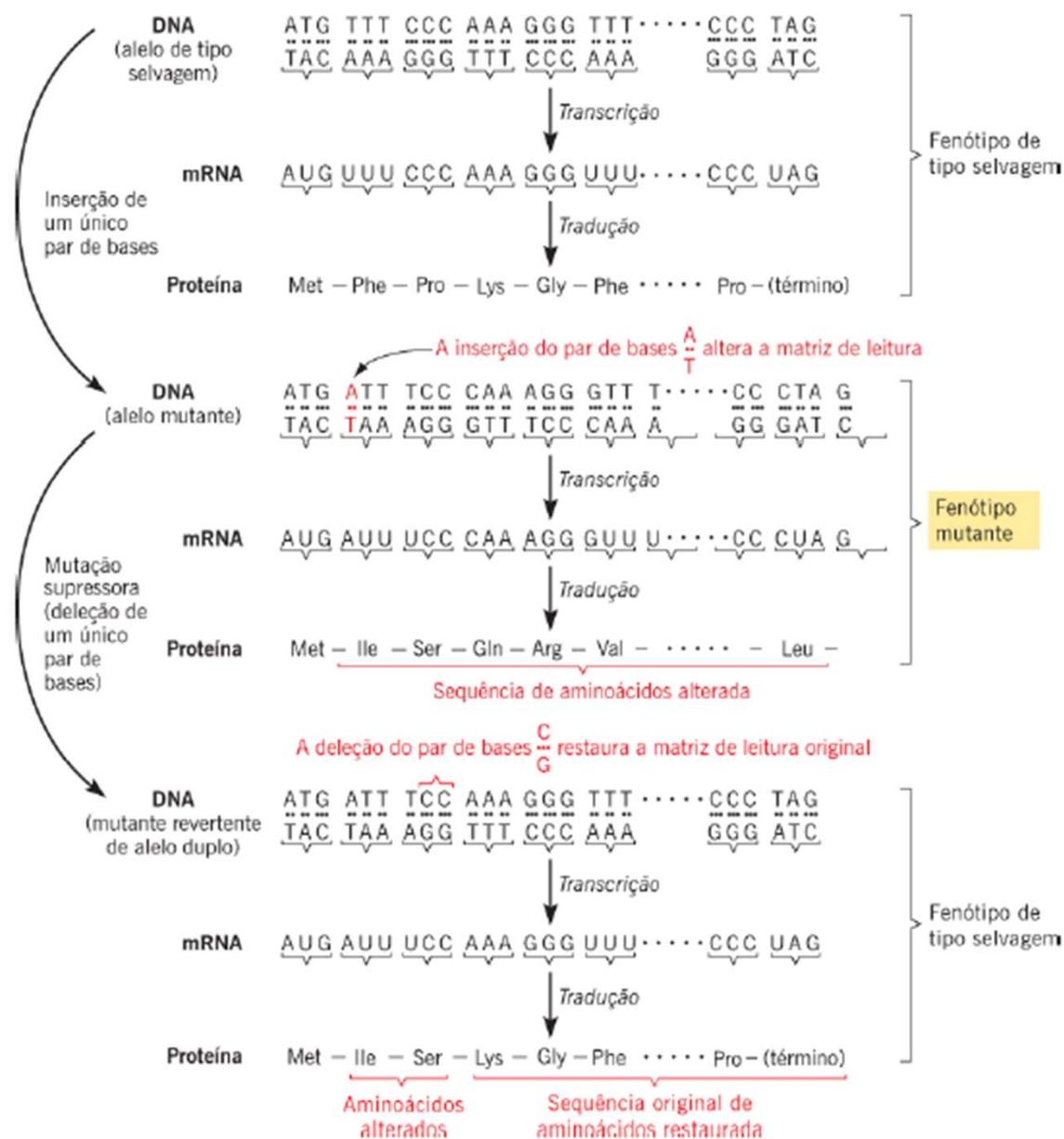


ETAPA 1 Os esporos de tipo selvagem são irradiados, e as cepas resultantes são cruzadas com o tipo selvagem.





Crescimento apenas quando é acrescentada a vitamina ácido pantotênico.



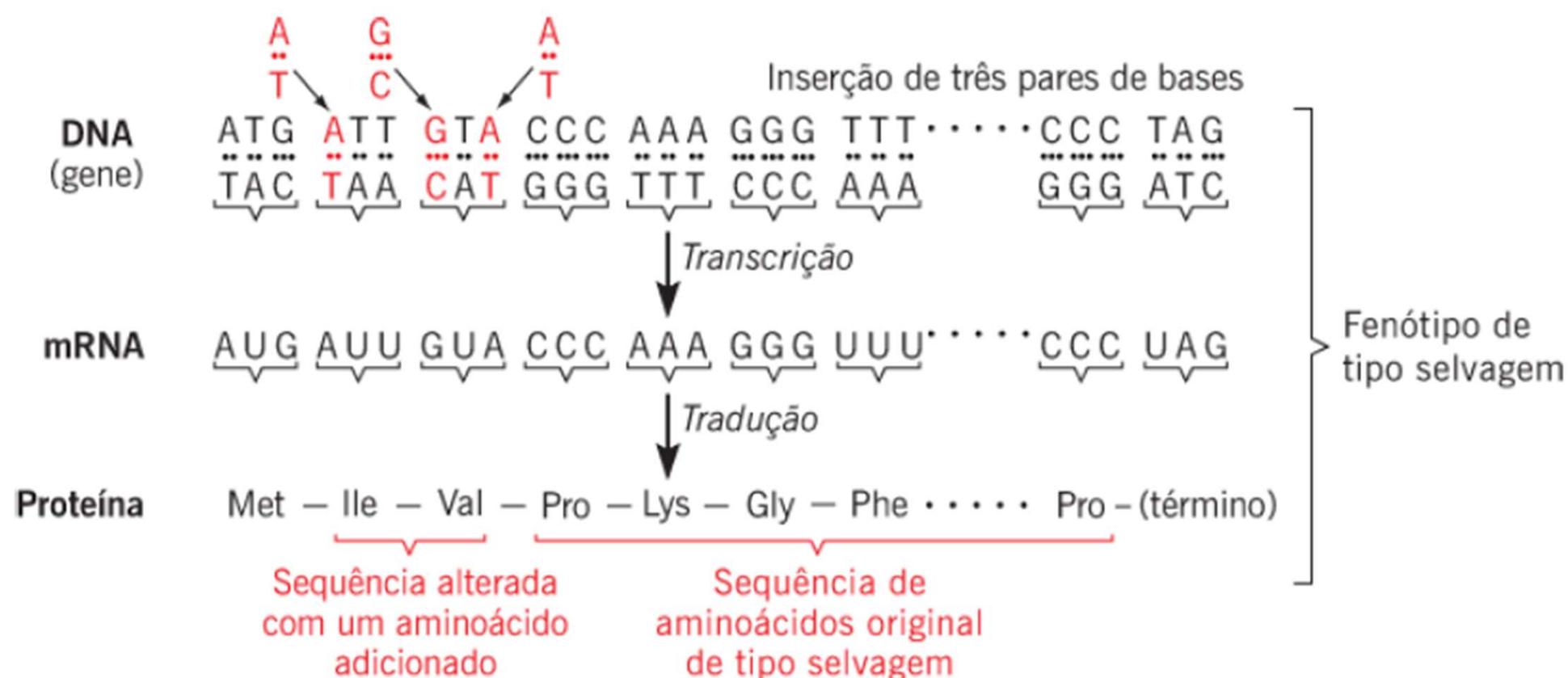
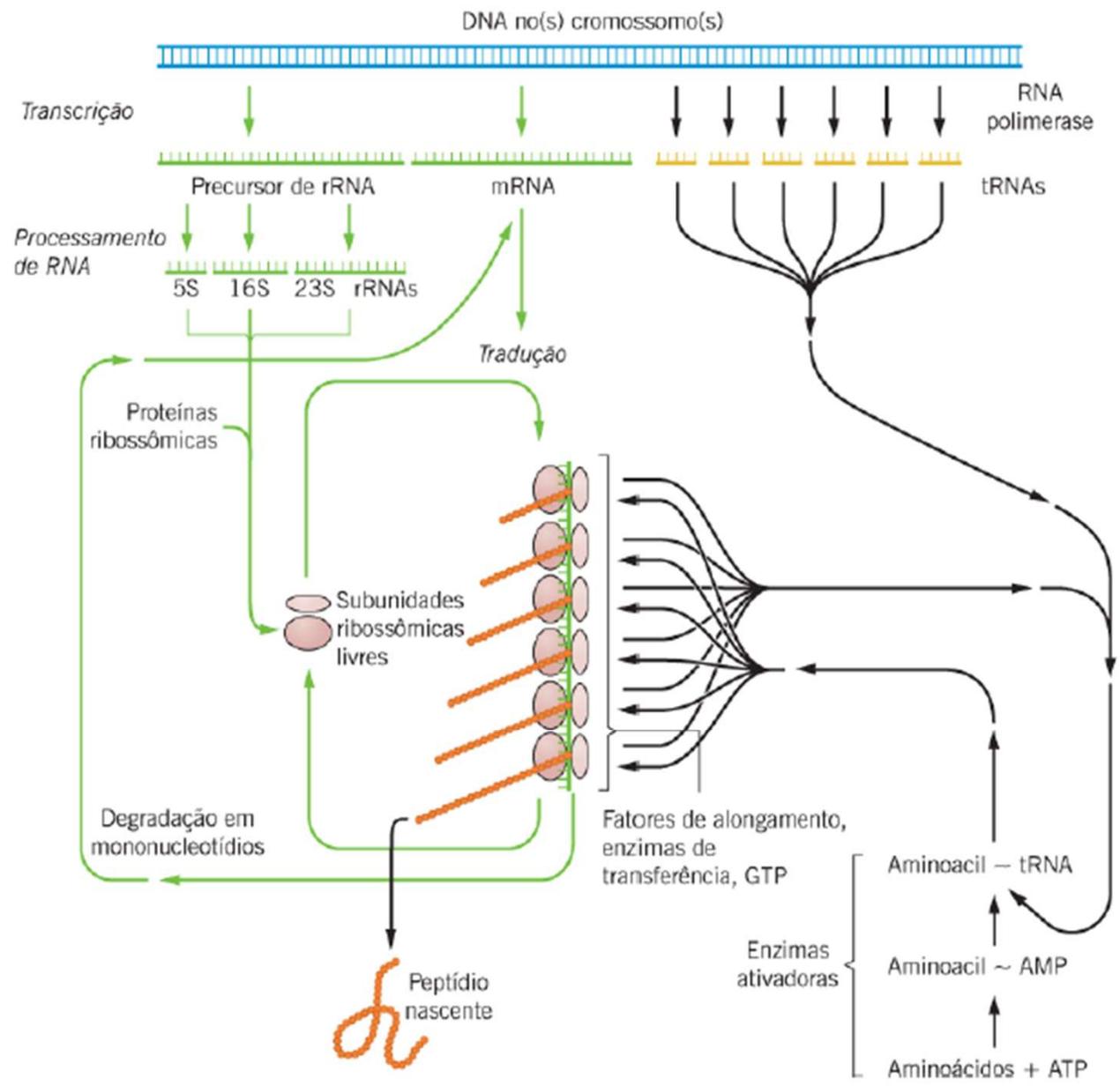
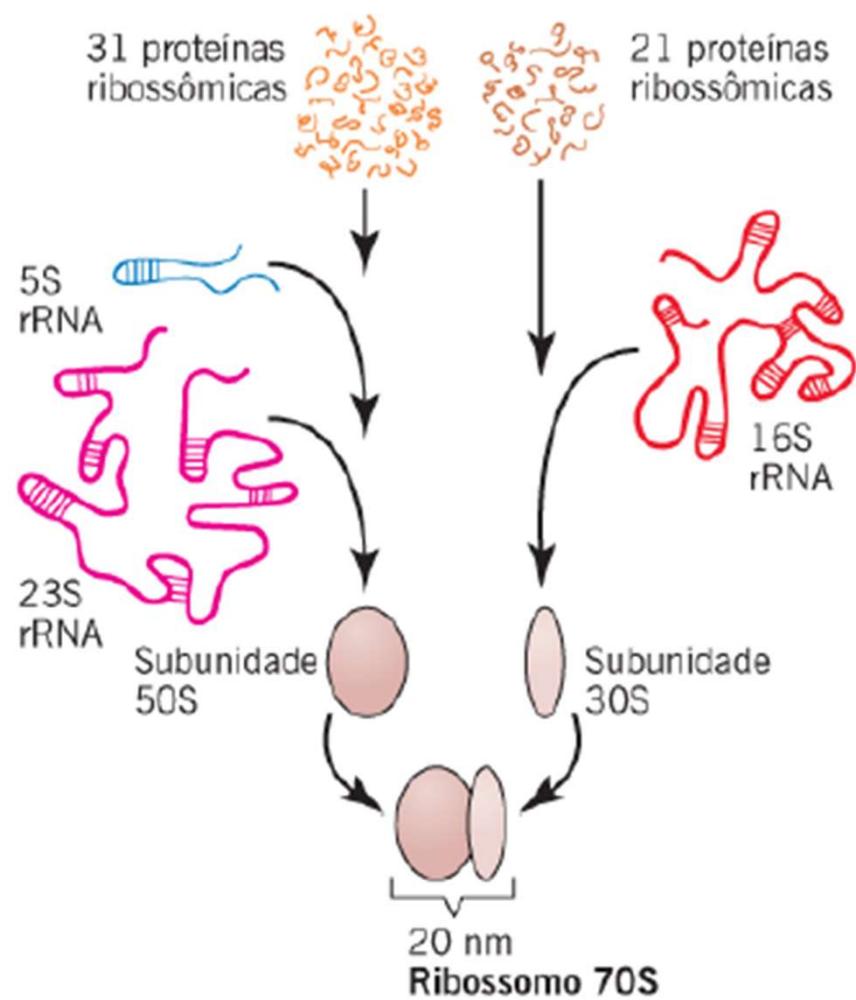


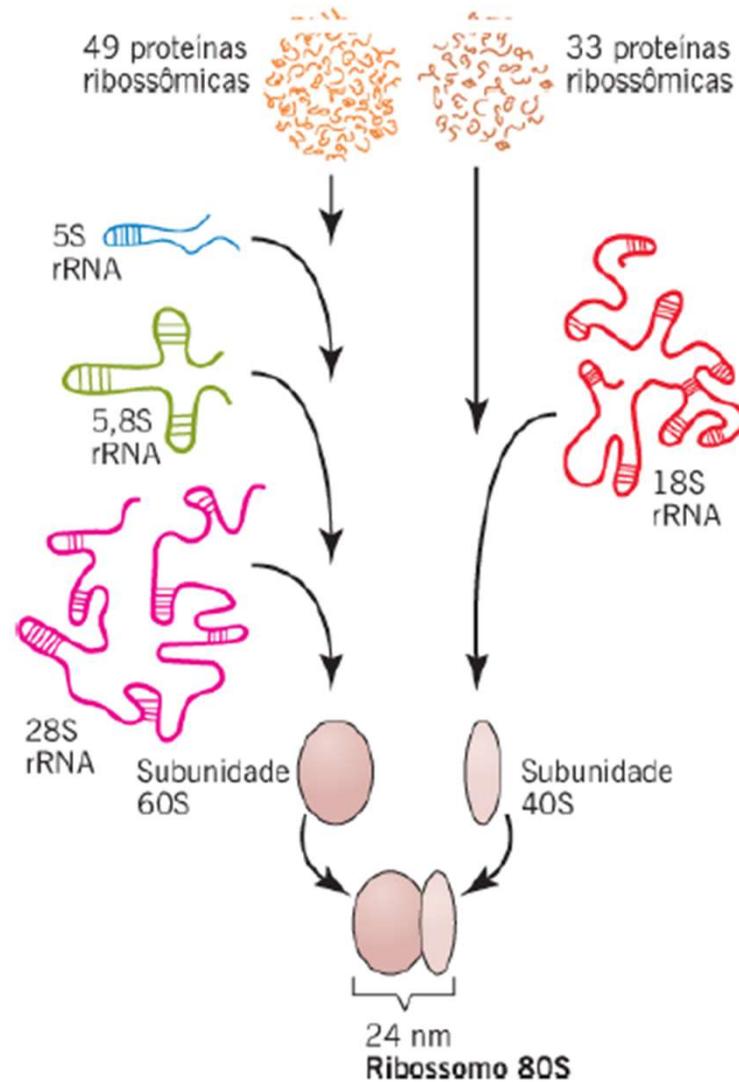
FIGURA 12.7 Um recombinante contendo três inserções de pares de bases únicos tem a matriz de leitura do tipo selvagem.



Ribossomo procariótico



Ribossomo eucariótico (mamífero)



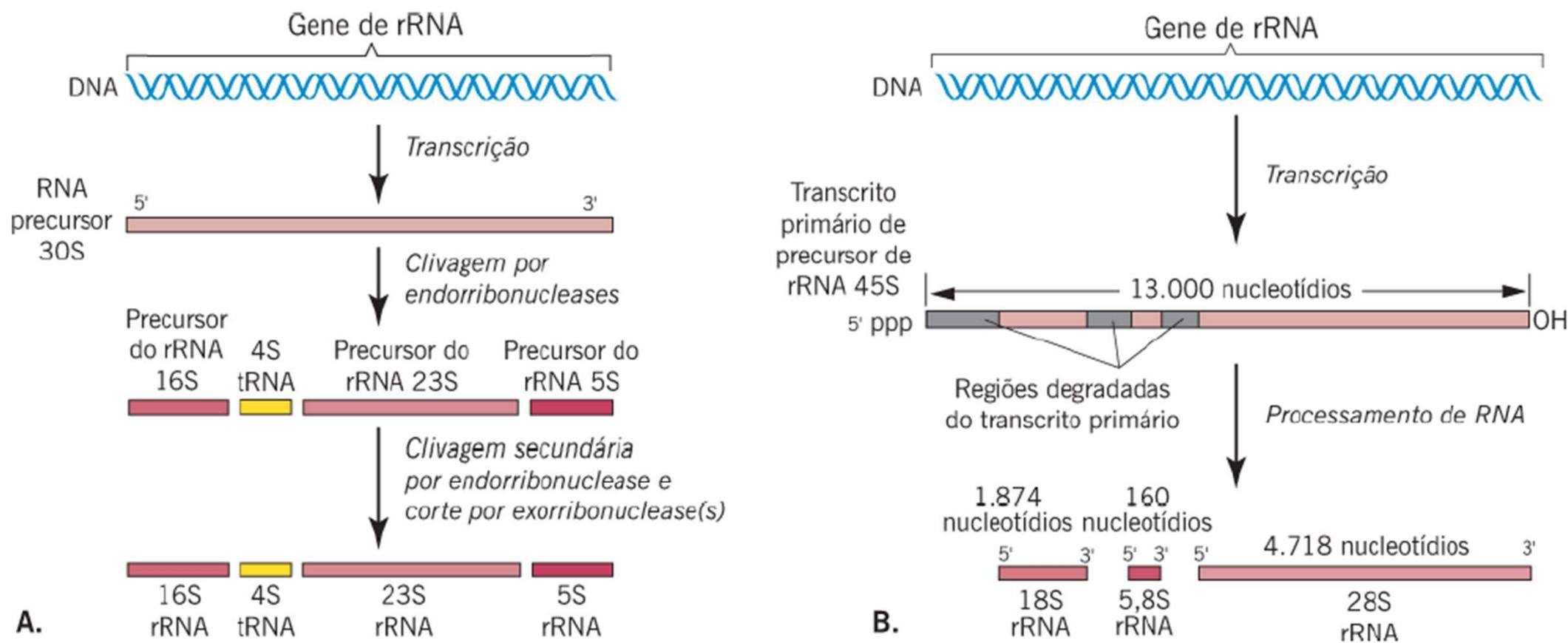
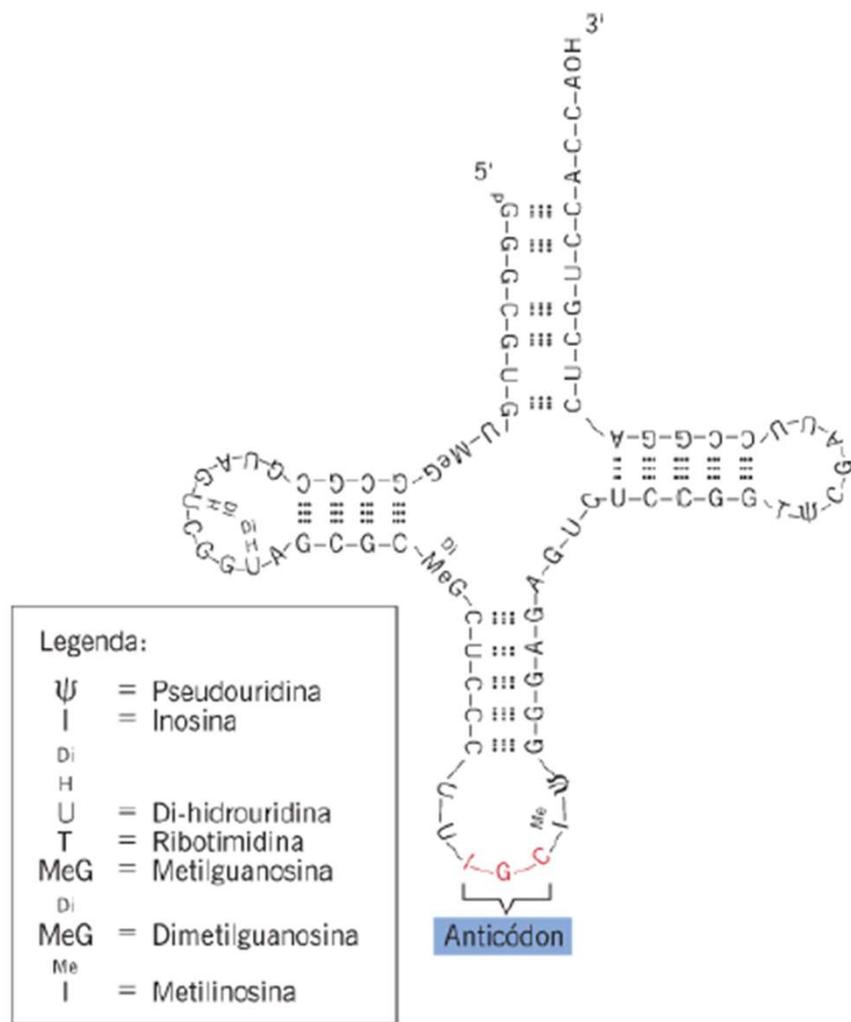


FIGURA 12.11 Síntese e processamento de precursor de rRNA 30S em *E. coli* (A) e precursor de rRNA 45S em mamíferos (B).



Reproduzida, com autorização, de Holley, R.W., et al., 1965. *Science* 147: 1462-1465.
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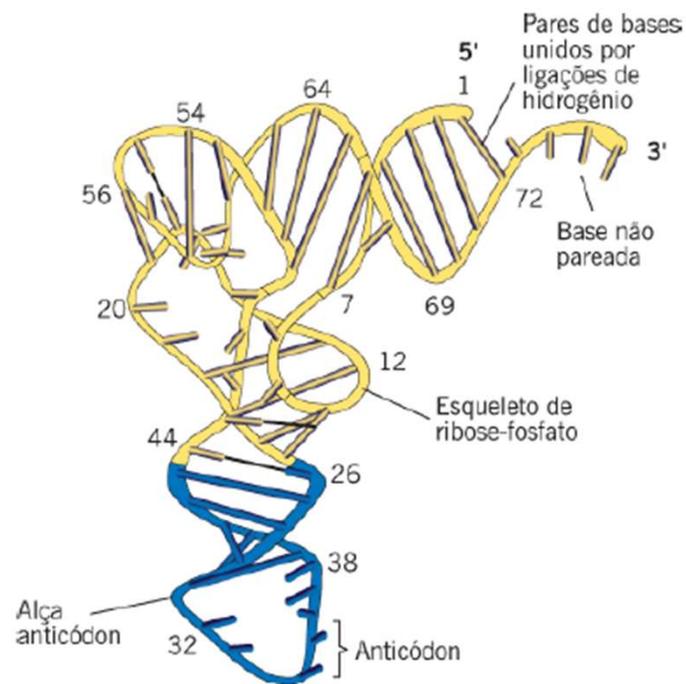
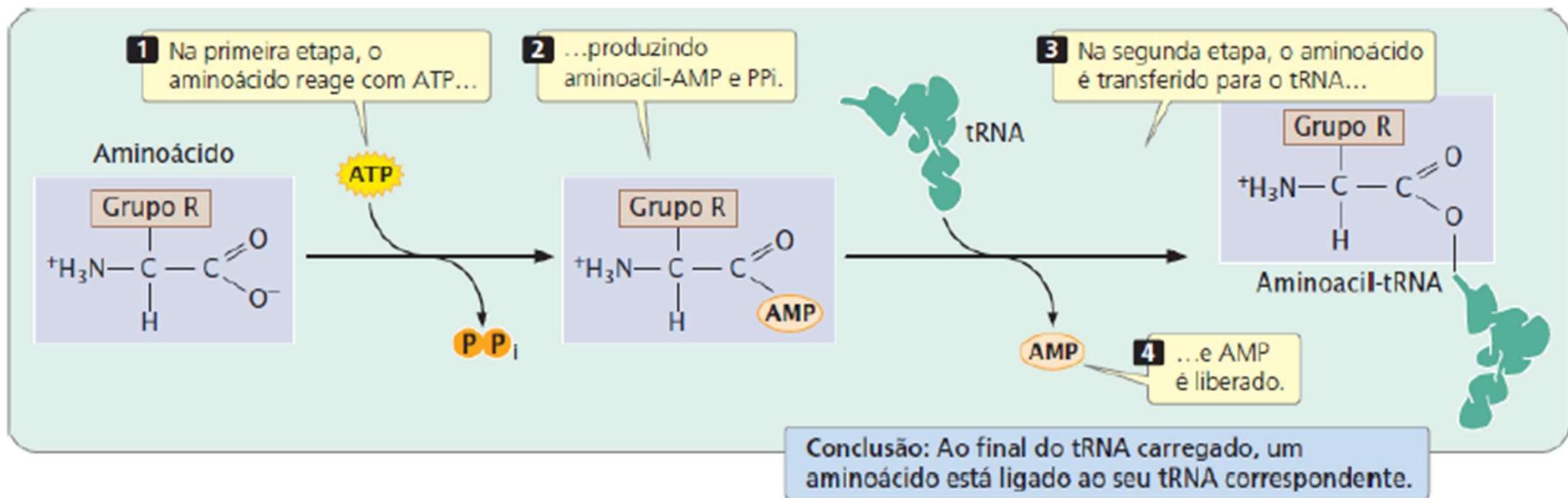


FIGURA 12.12 Sequência nucleotídica e configuração em folha de trevo do tRNA de alanina de *S. cerevisiae*. Os nomes dos nucleosídeos modificados presentes no tRNA são mostrados no detalhe.



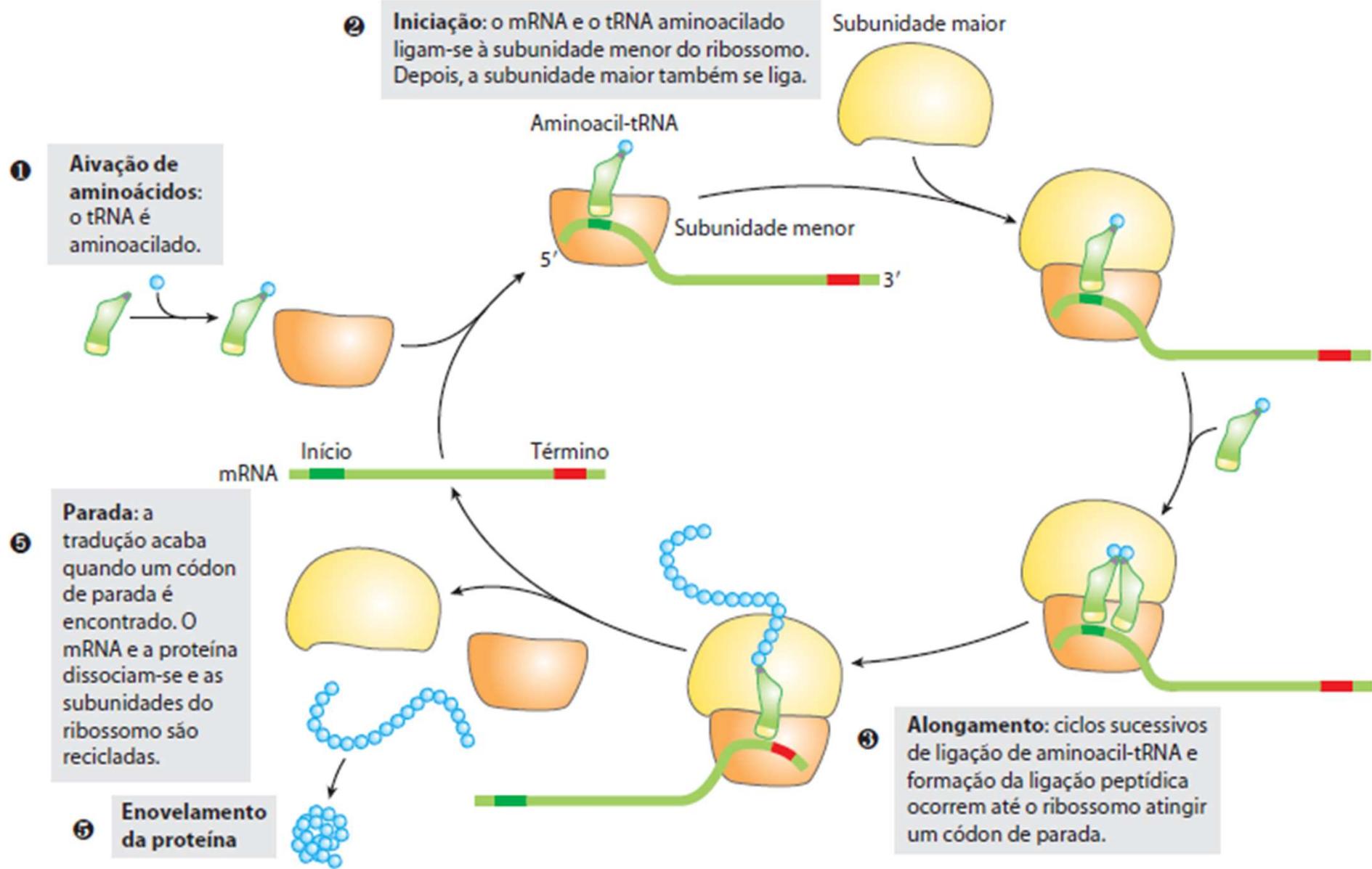
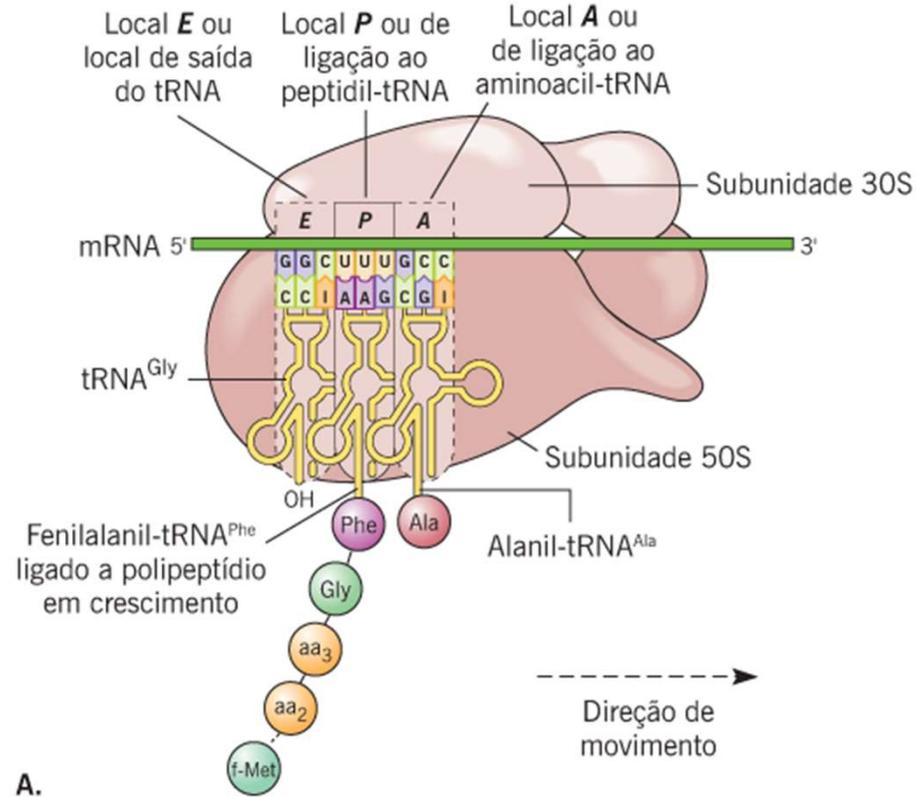
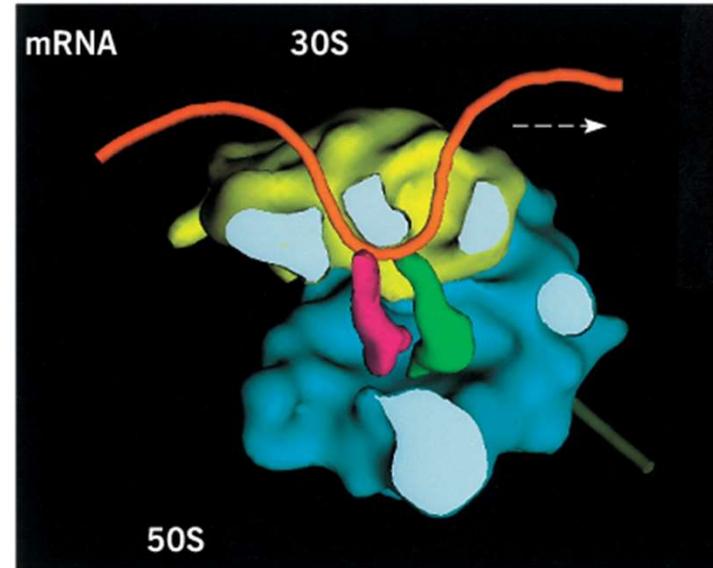


Diagrama de ribossomo 70S



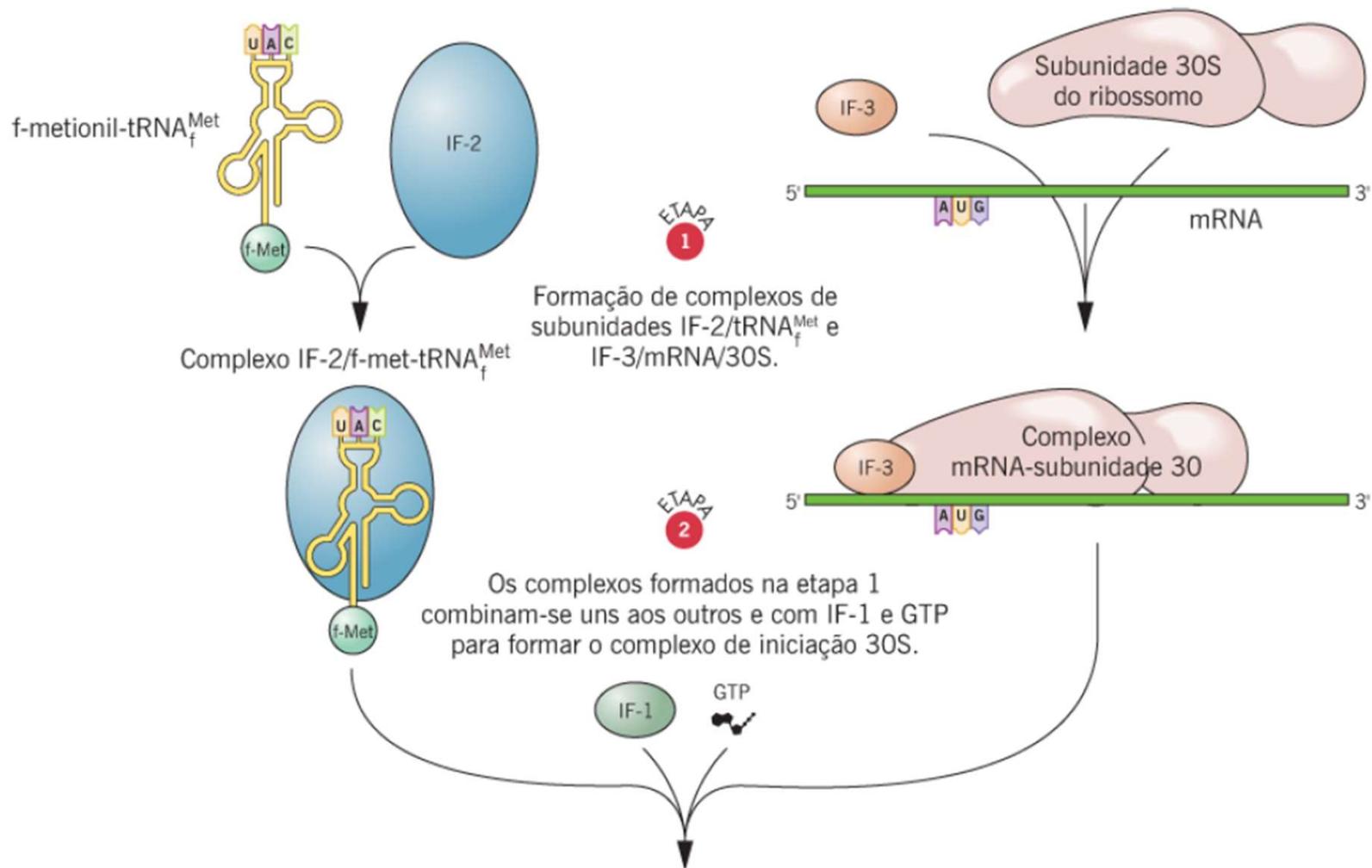
A.

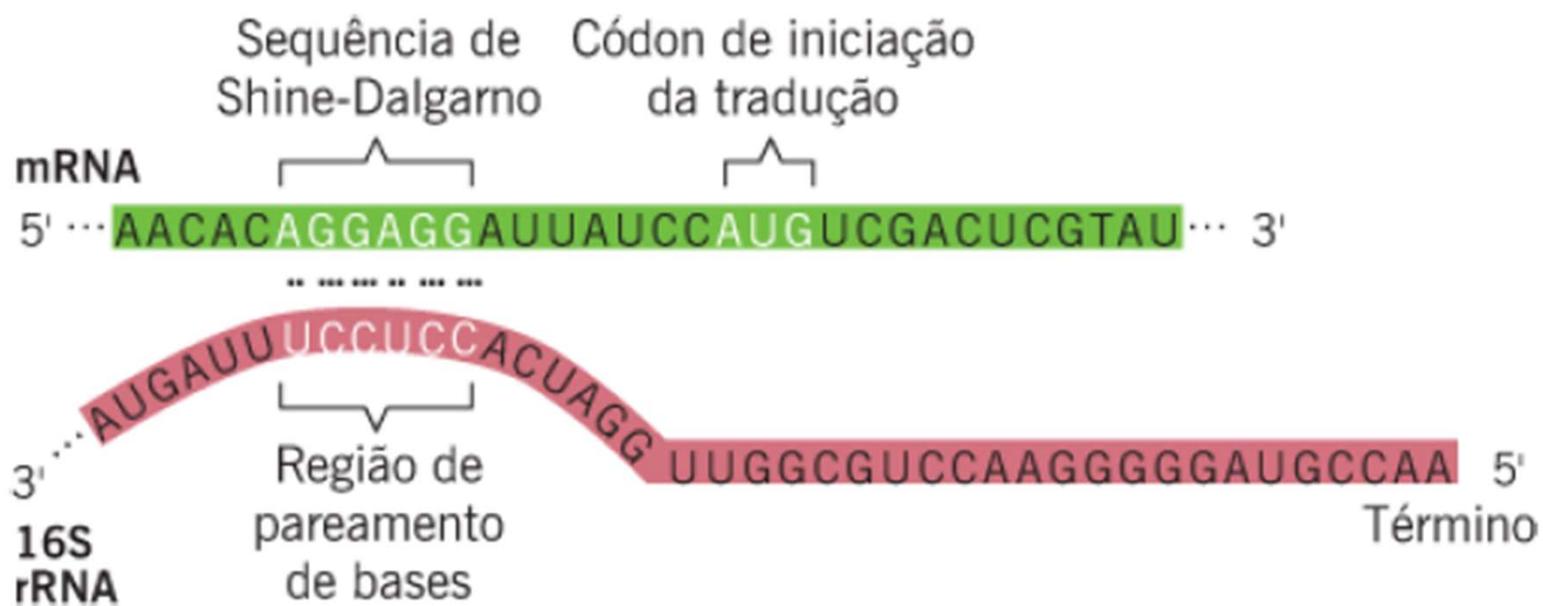
Ribossomo 70S – vista cortada de modelo

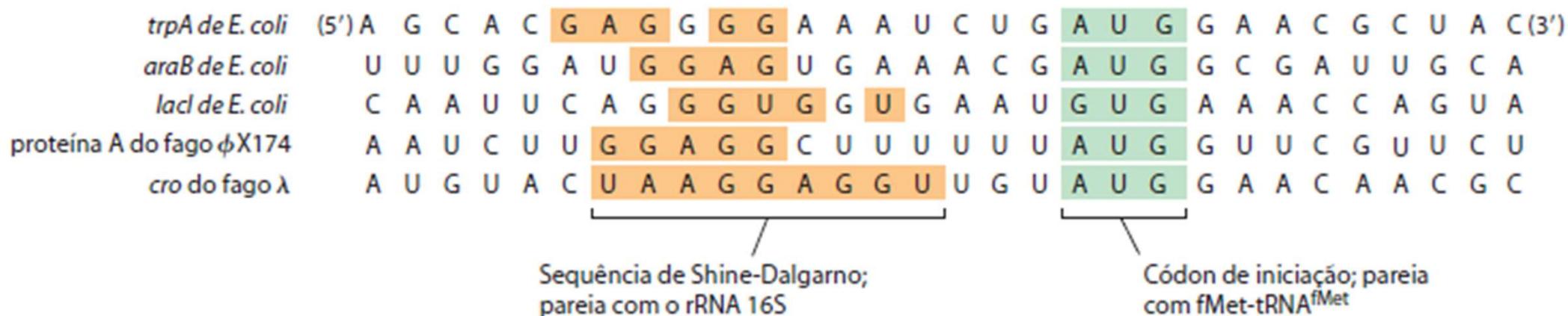


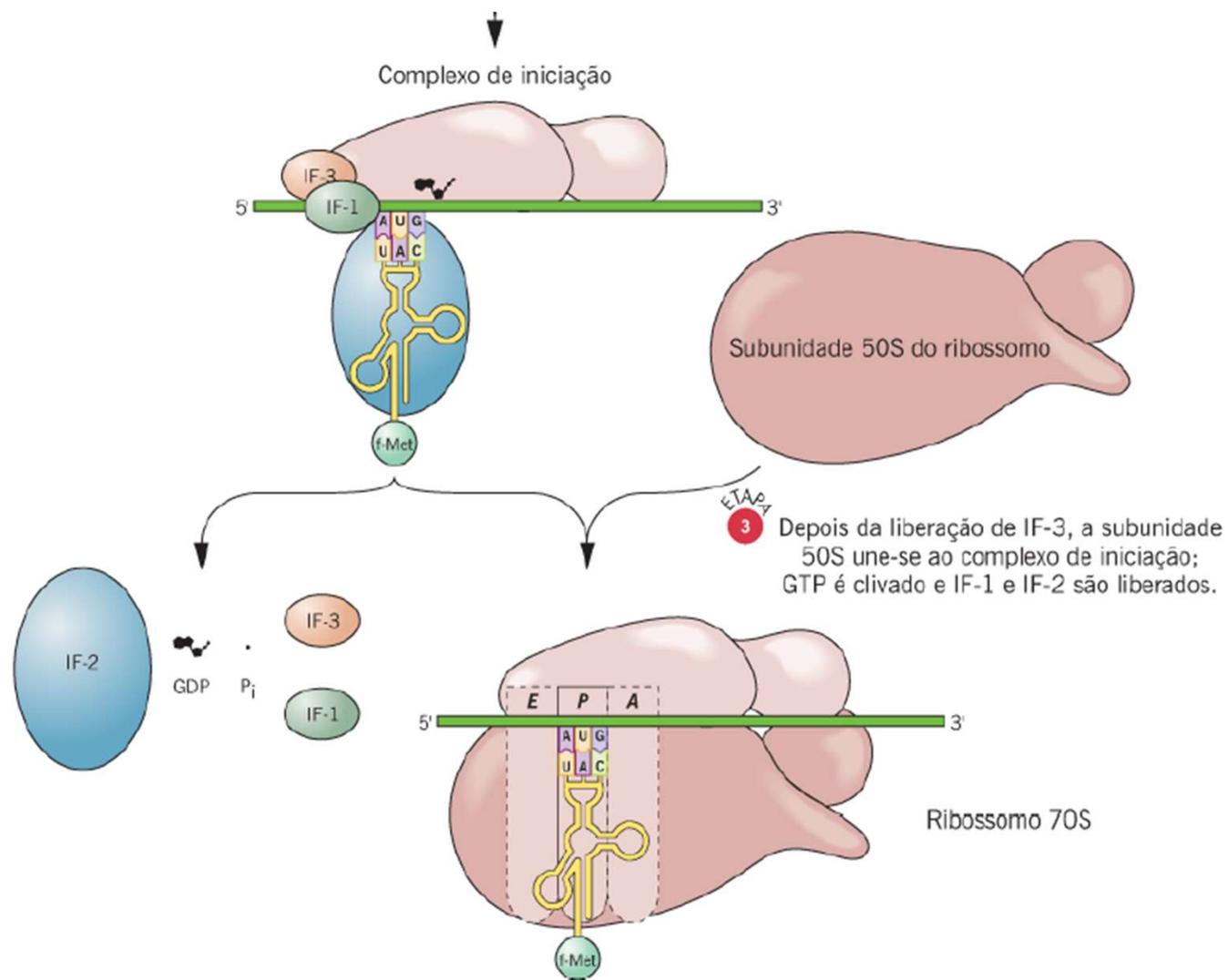
B.

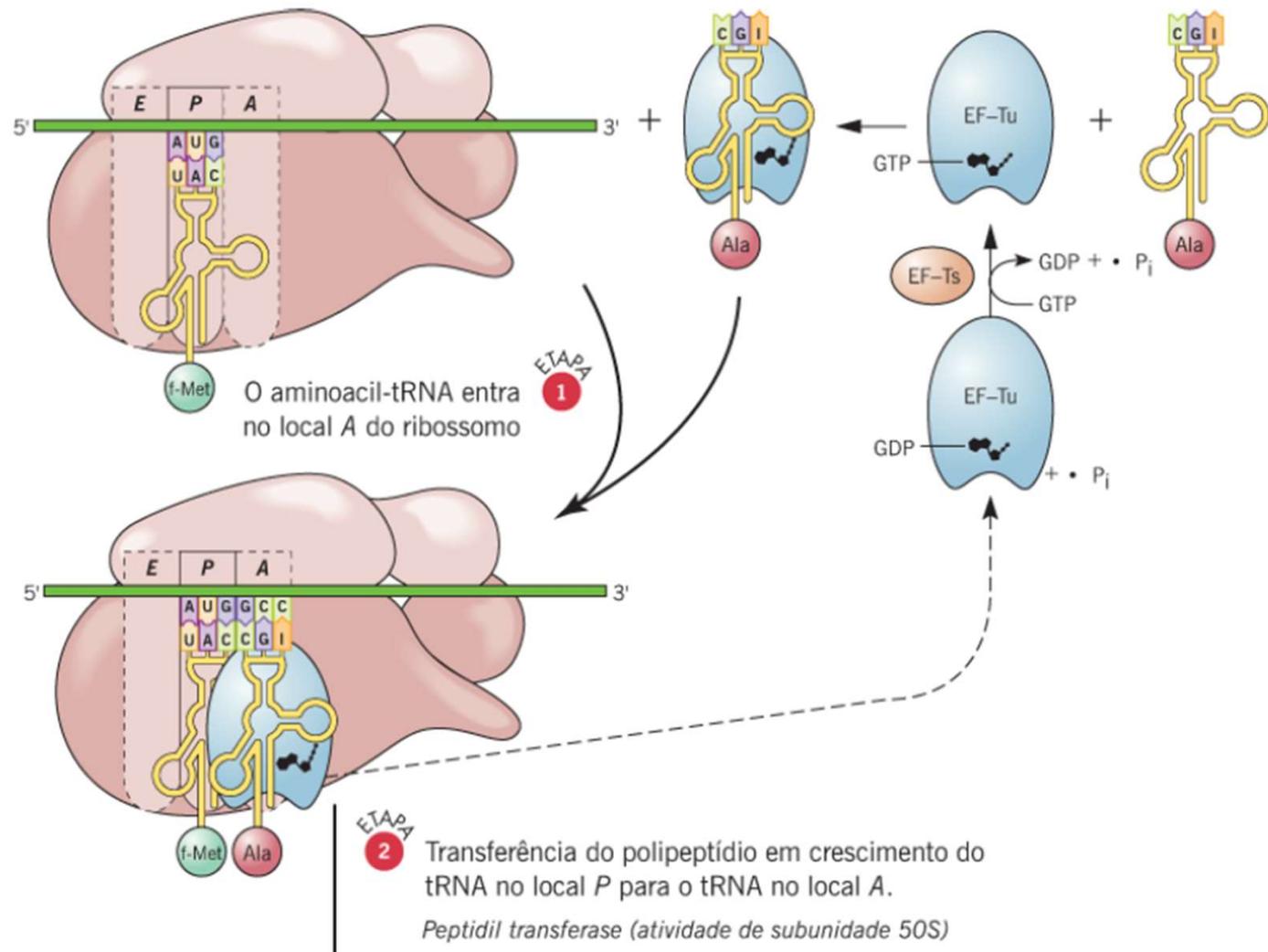
Cortesia de Dr. Joachim Frank. From Frank, et al. 1995. Biochemistry and Cell Biology 73: 357.

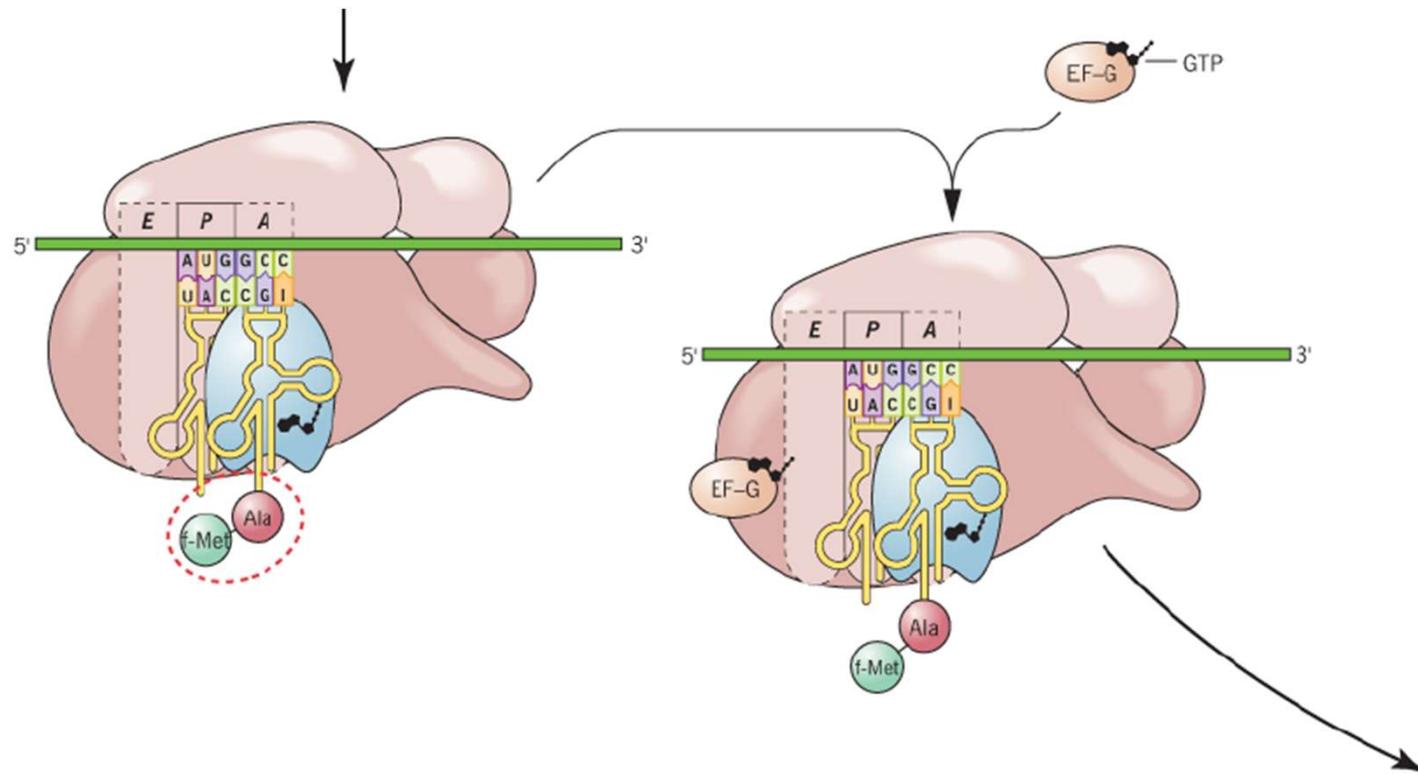


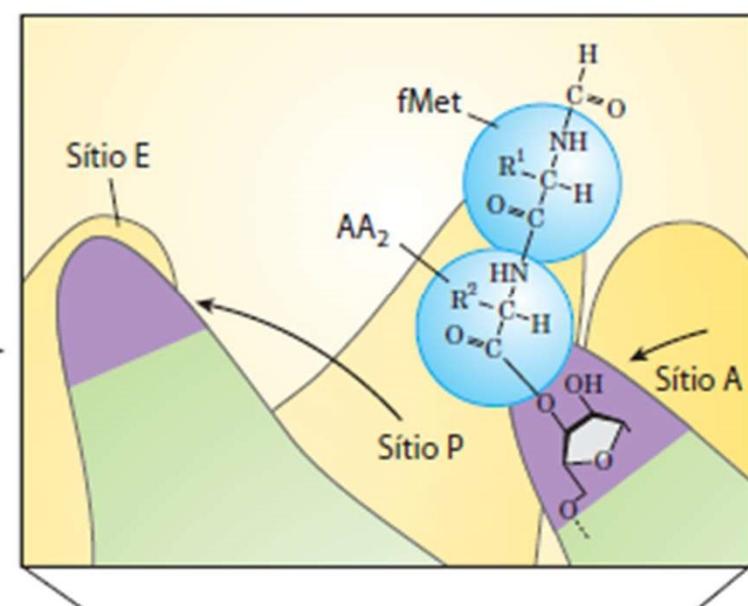
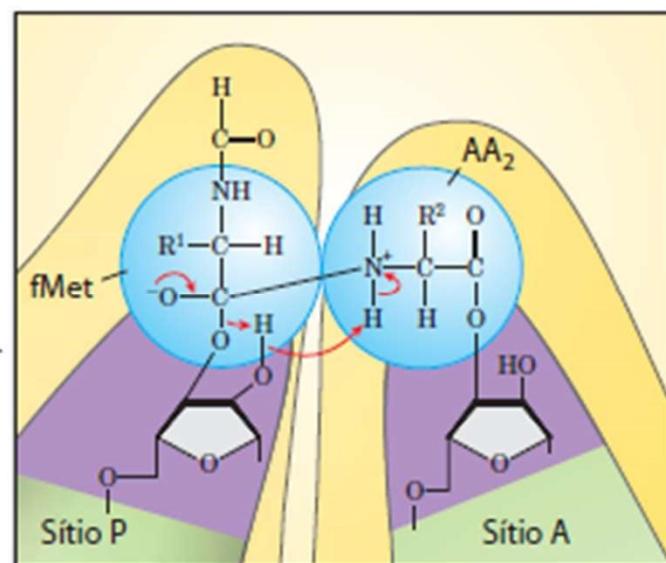
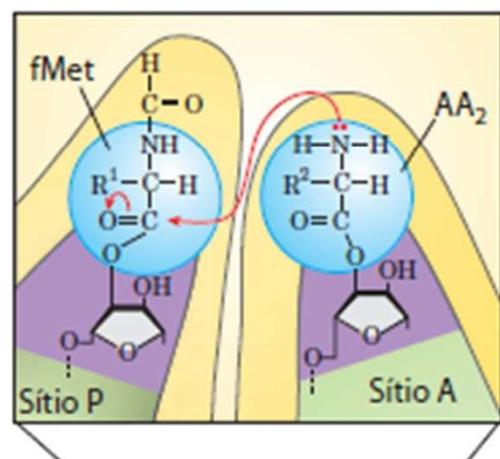












ETAPA

3 Translocação do polipeptídio-tRNA em crescimento do local *A* para o local *P* e do tRNA que sai para o local *E*.

