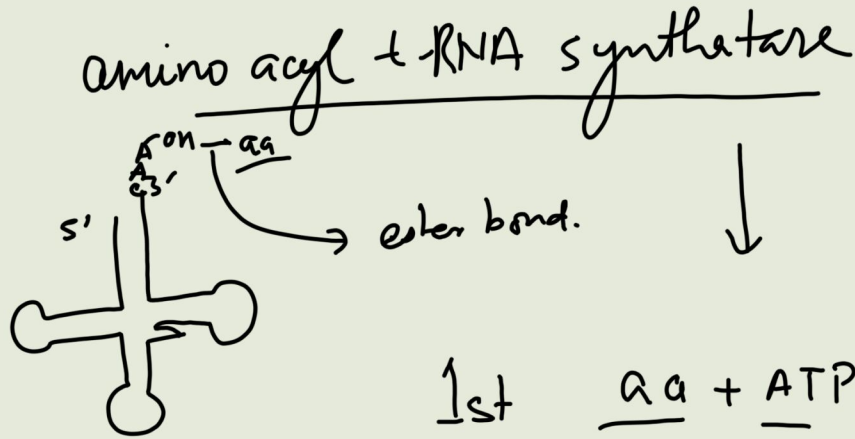


Prokaryotic Translation

t-RNA charging

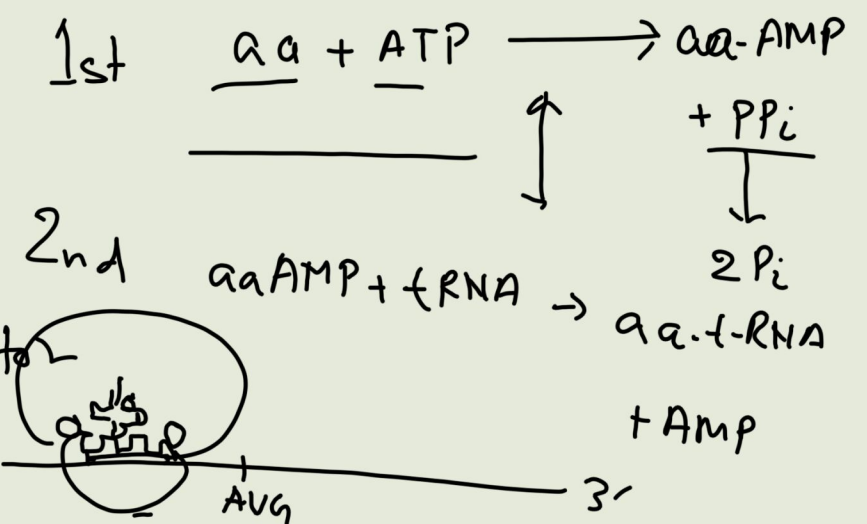


Translation initiation

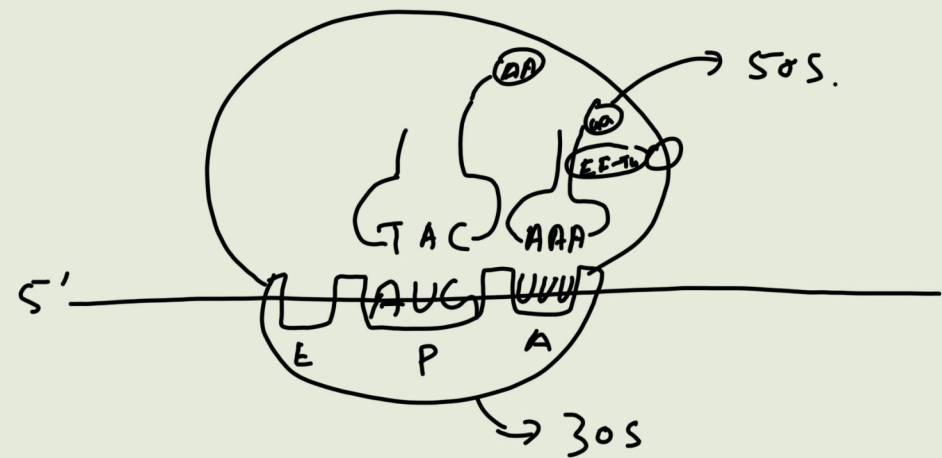
charged t-RNA + GTP

3 different initiation factors

- IF1 → A site
- IF2 → P site
- IF3 → E site

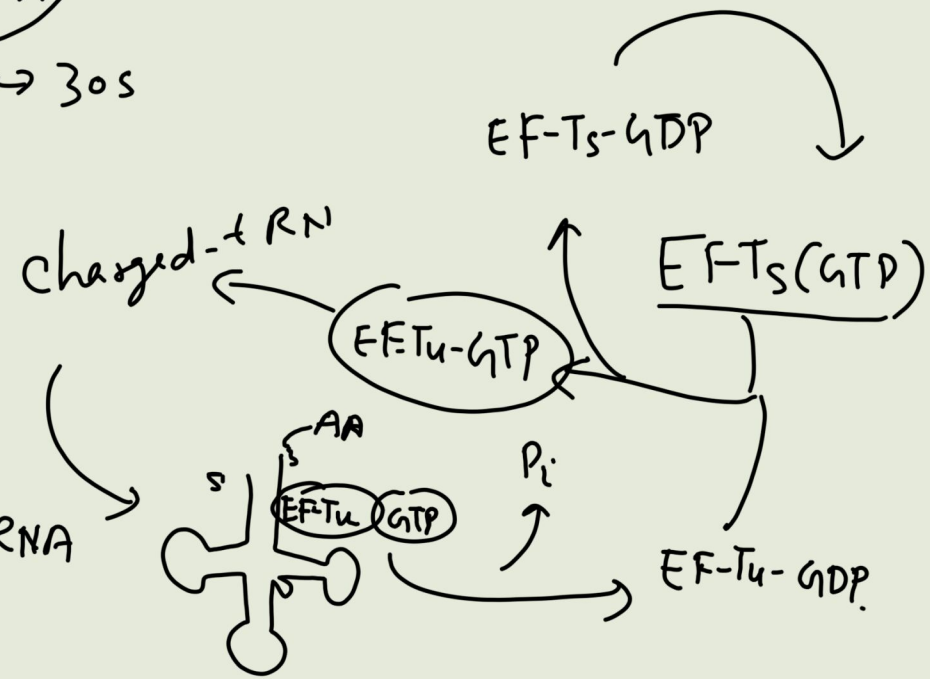
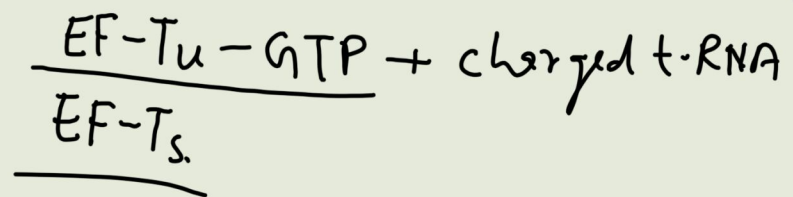


Elongation

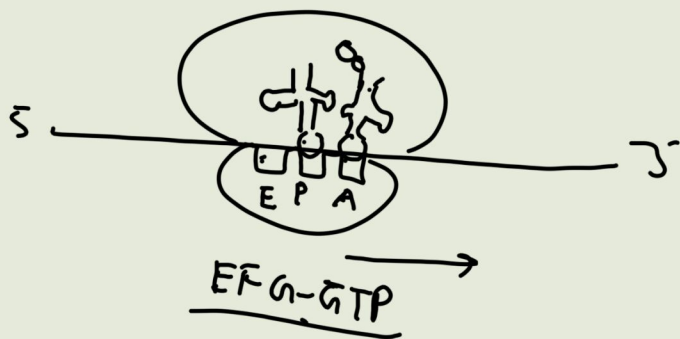
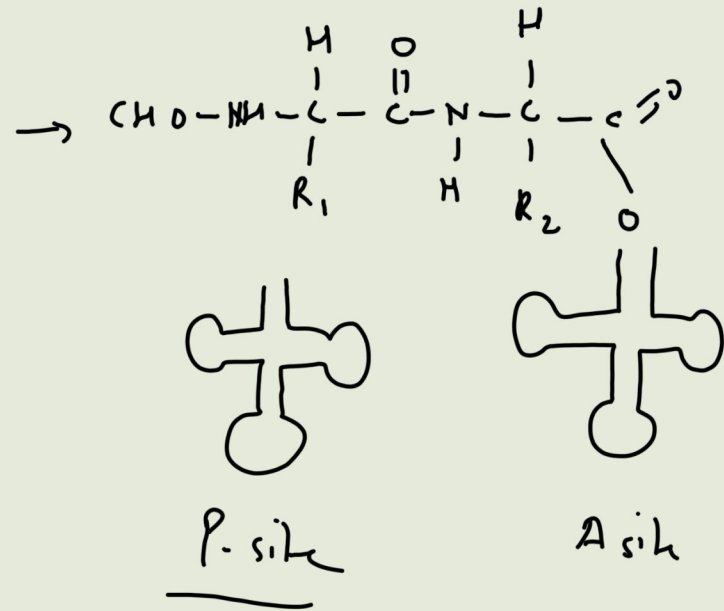
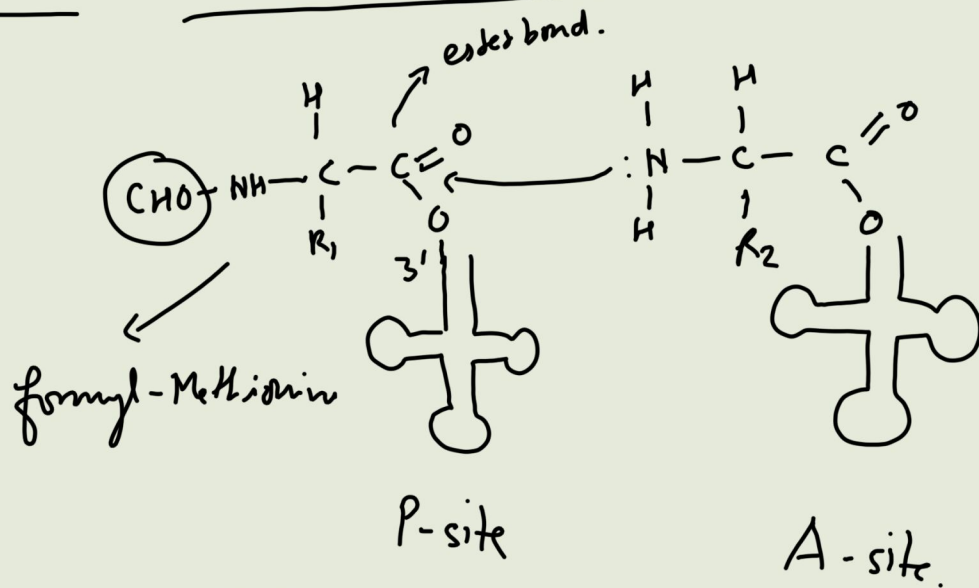


Step 1 → selection of aminoacyl tRNA
(or charged t-RNA)

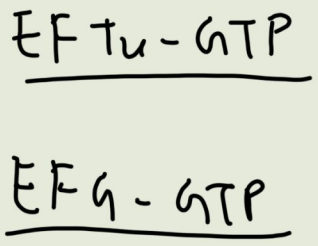
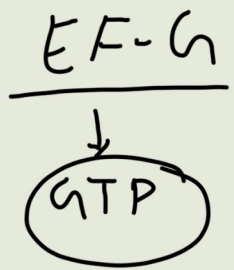
* elongation factors.



Step-2 → formation of Peptide bond



Step 3 - Translocation



Utilization of 2 GTP

