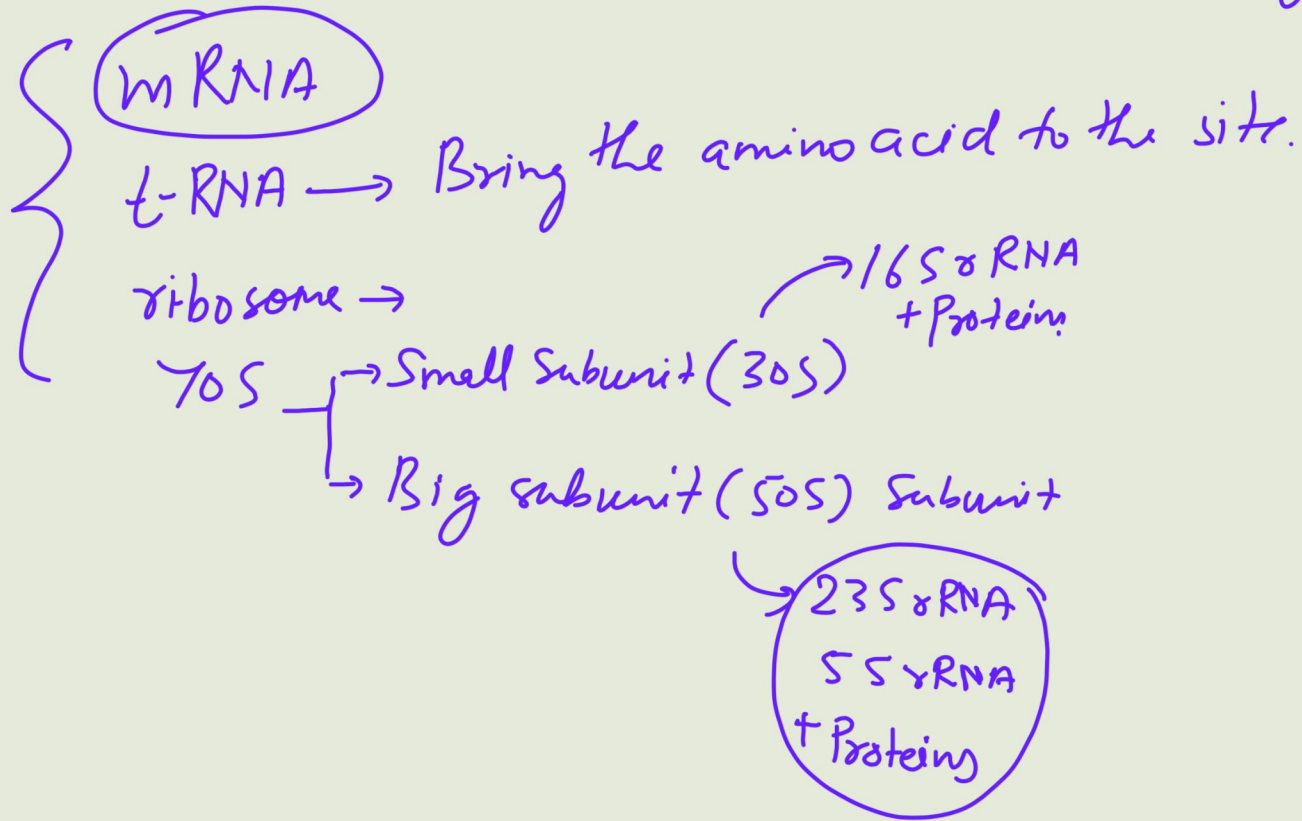
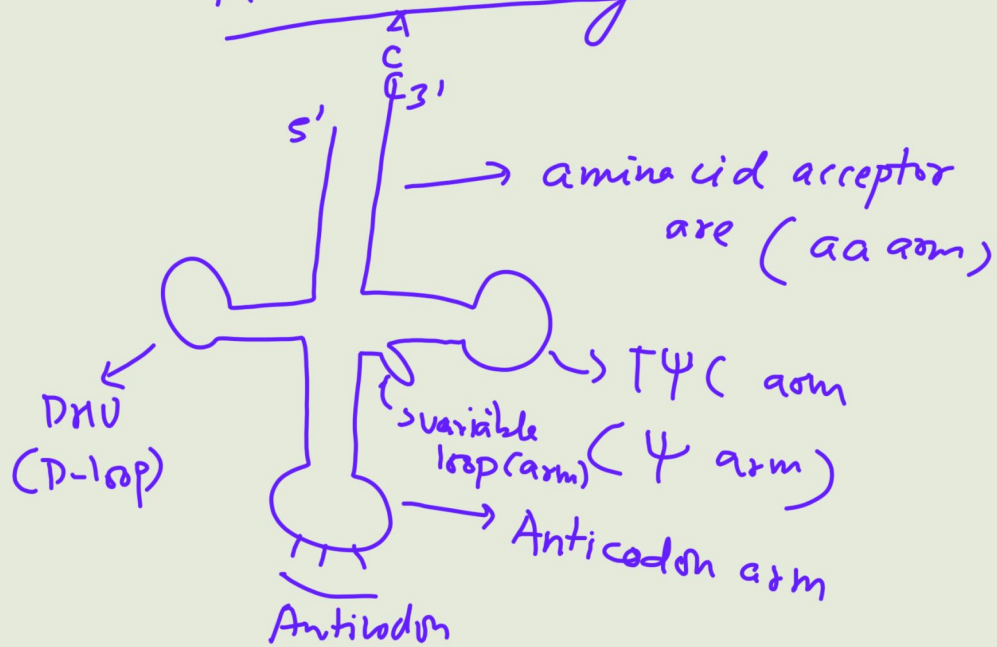


Translation in Prokaryotes



Charging of t-RNA

Robert Holley - 1965

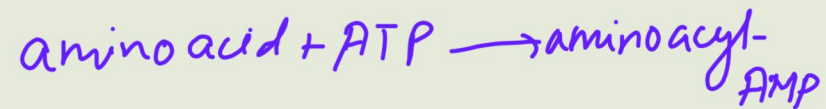


* Utilization of 1 ATP.

* Aminacyl t-RNA synthetase

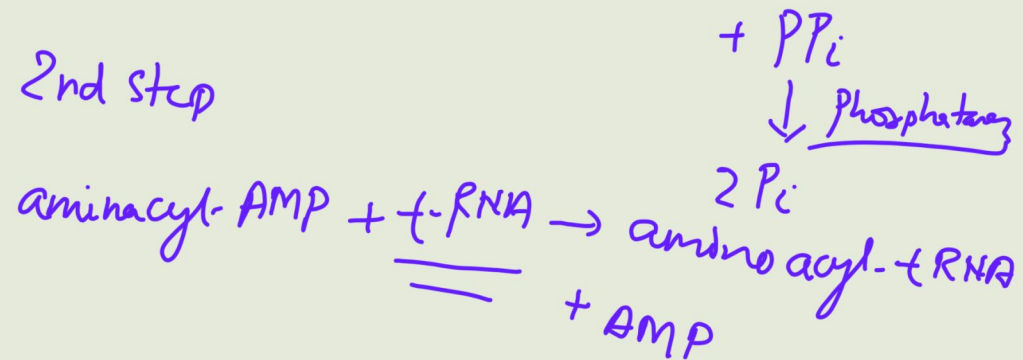
↓
20

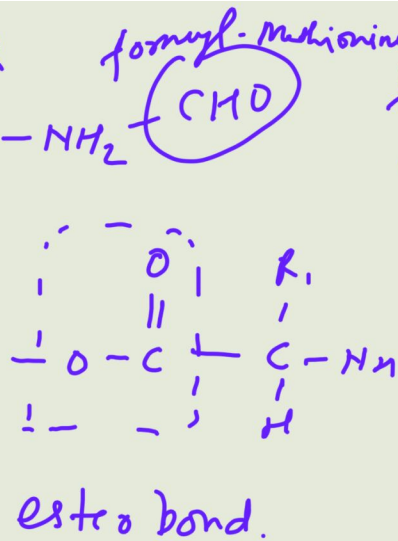
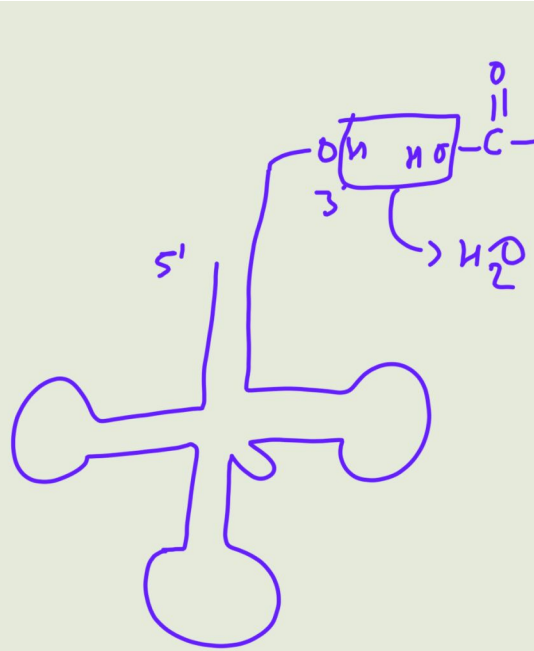
1st Step



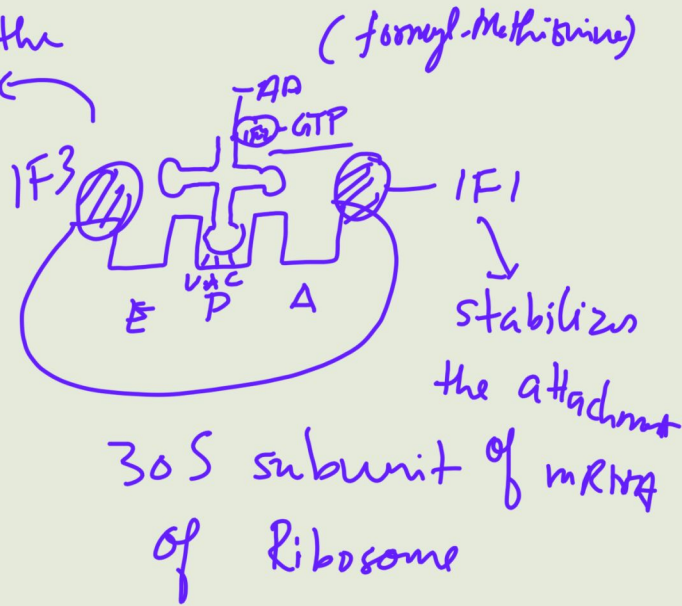
$$\frac{7.3 \text{ Kcal} \times 2}{7300 \text{ cal}}$$

2nd step

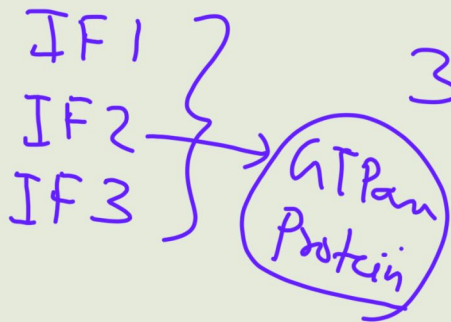




to prevent the binding of 50S subunit



Initiation



30S subunit
 ↳ 16S rRNA

