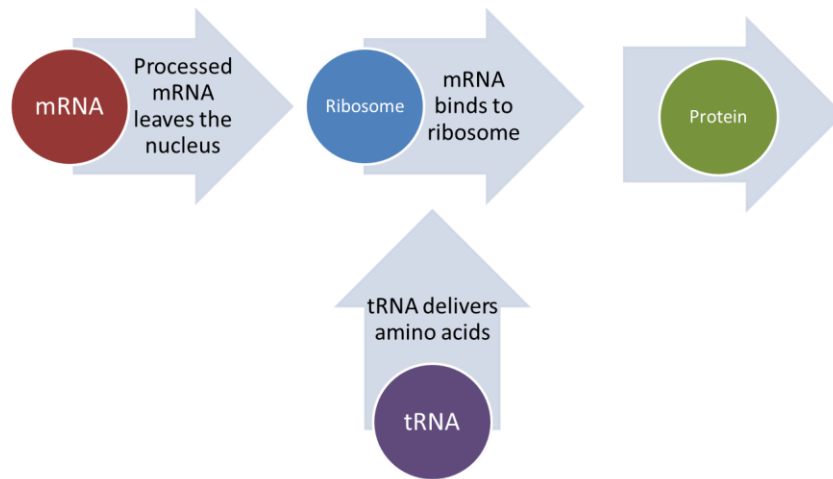
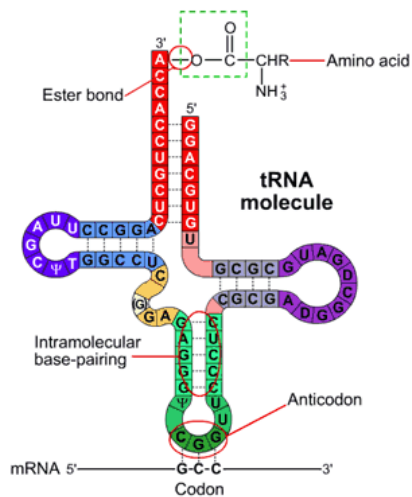


Translation



What is a codon?

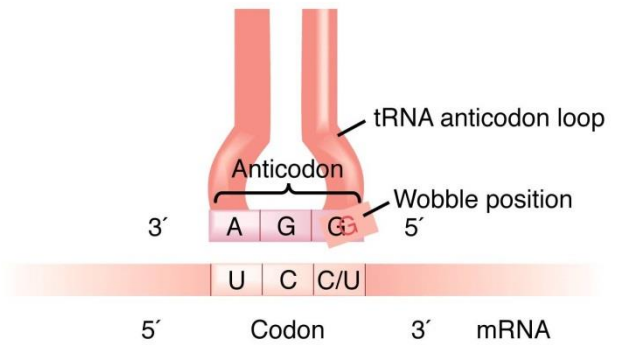
Why is the genetic code said to be "universal"?



What is the role of aminoacyl tRNA synthetase?

The Wobble Hypothesis

- though there are 61 codons coding for amino acids, we do not need 61 types of tRNA
- the 3rd nucleotide in the anticodon is often less important than the first two (binds weakly / not specific)
- the third nucleotide is in the “wobble” position



Why is the genetic code said to be “redundant”?

The Ribosome

- A ribosome is a complex of protein combined with ribosomal RNA (rRNA)



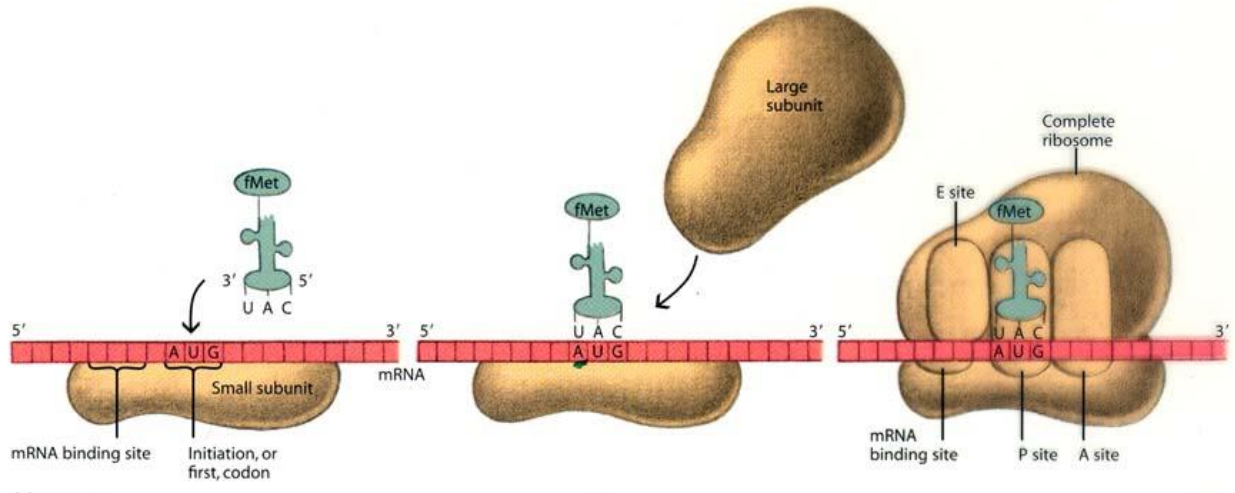
The 3 Phases of Translation:

1) _____

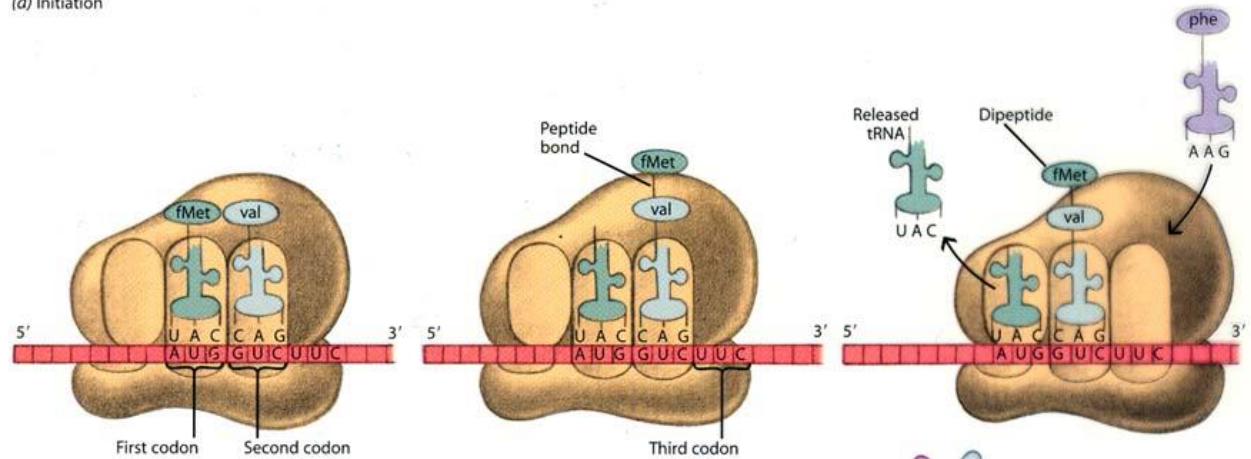
2) _____

3) _____

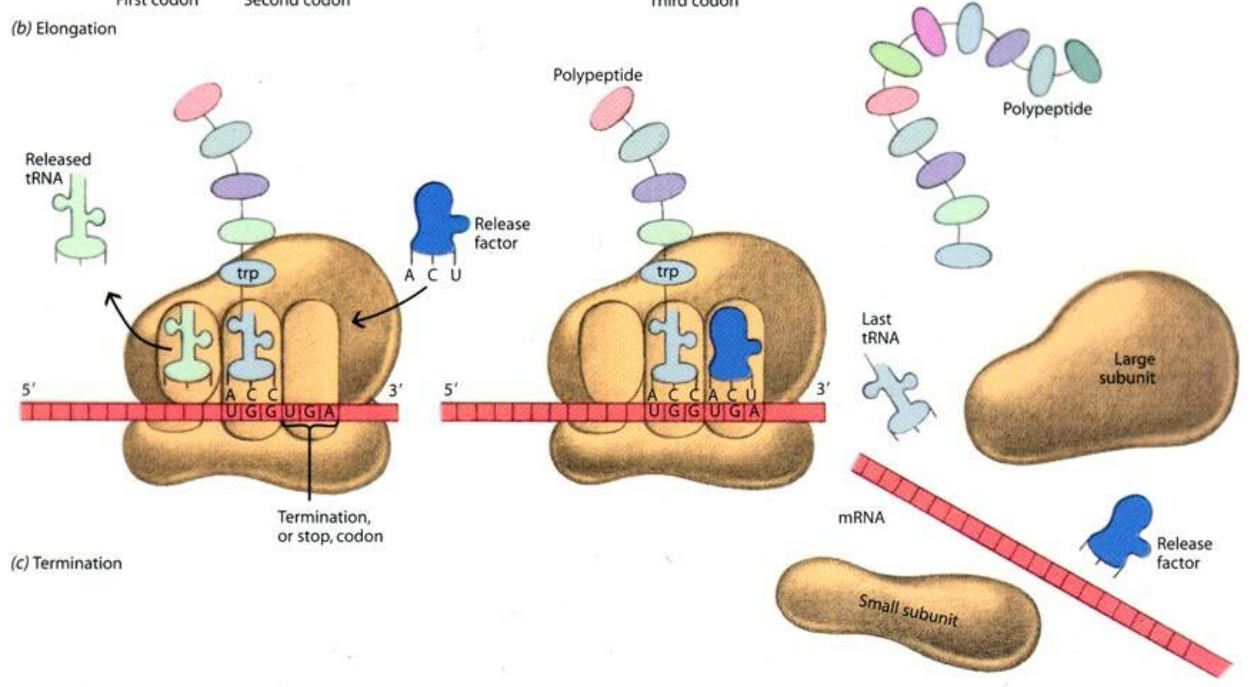
You are encouraged to annotate the diagram below with the main steps of translation



(a) Initiation

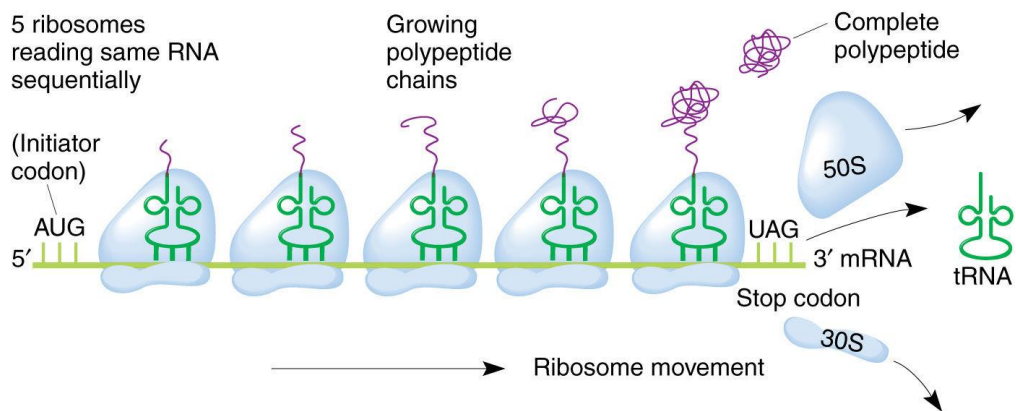


(b) Elongation



(c) Termination

What is a polysome / polyribosome?



Post Translational Modification

After a new polypeptide is synthesized, what changes can still take place modify the final protein product?

