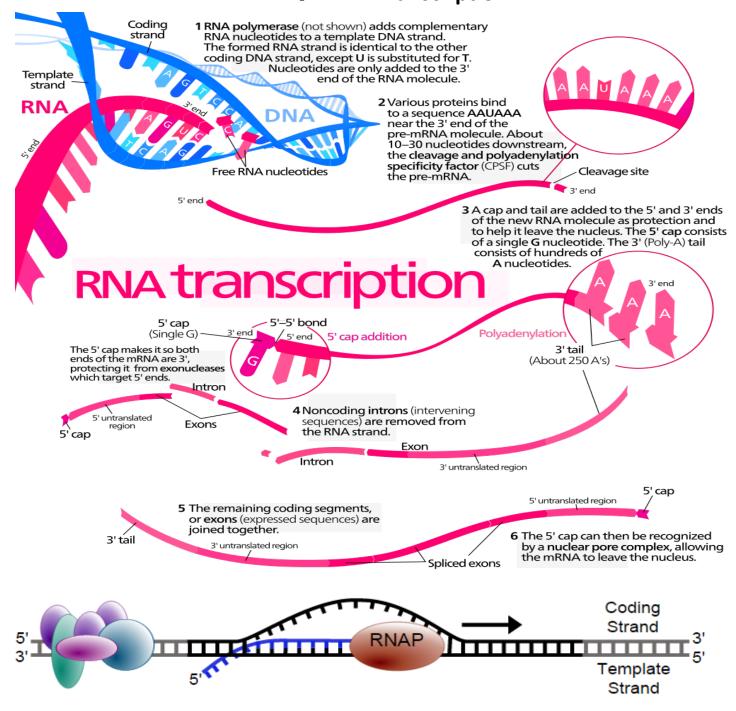
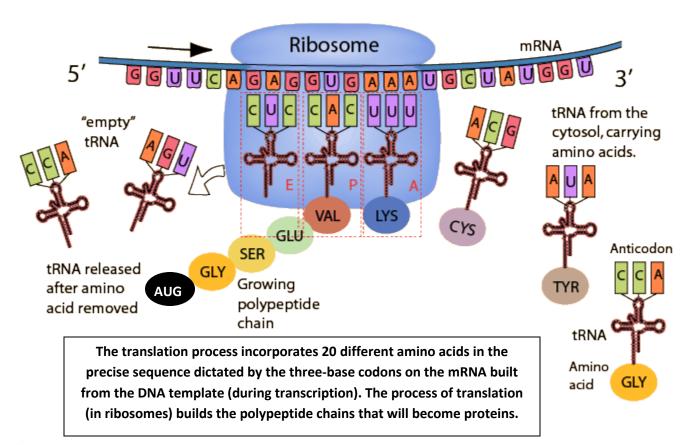
The Central Dogma: DNA → RNA → Protein DNA → RNA: Transcription



Base Pairing: In RNA, T is replaced by U DNA: $A \rightarrow T$, $C \rightarrow G$ RNA: $A \rightarrow U$, $C \rightarrow G$ Every three letters (bases) is a codon which codes for a specific amino acid (basic unit of a protein).

The RNA is decoded by ribosomes into a functional protein by the process of translation (protein synthesis). Turn Over.

The Central Dogma: DNA → RNA → Protein RNA → Protein: Translation



Codons Found in Messenger RNA On the Ribosome: Codon 1 G "A Site" – Amino site A "P Site" - Peptide site (growing peptide) Codon 2 G "E Site" – Exit site (tRNA leaves ribsome) G Α Codon 3 G C U Codon 4 Codons: U C Anticodon on tRNA must match mRNA codon G Codon 5 Codons code for amino acids G A G Codon 6 ALL proteins start with AUG (Methionine) С U ALL proteins stop with 1 of 3 stop codons Codon 7 RNA

Ribonucleic acid

Second Base							
		U	С	Α	G		
	U	Phe	Ser	Tyr	Cys	U	
		Phe	Ser	Tyr	Cys	С	
		Leu	Ser	Stop	Stop	Α	
		Leu	Ser	Stop	Trp	G	
	С	Leu	Pro	His	Arg	U	
		Leu	Pro	His	Arg	С	σ,
		Leu	Pro	Gln	Arg	Α	se
		Leu	Pro	Gln	Arg	G	Ba
	Α	lle	Thr	Asn	Ser	U	Third Base
		lle	Thr	Asn	Ser	С	Th
		lle	Thr	Lys	Arg	Α	
		Met	Thr	Lys	Arg	G	
	G	Val	Ala	Asp	Gly	U	
		Val	Ala	Asp	Gly	С	
		Val	Ala	Glu	Gly	Α	
		Val	Ala	Glu	Glv	G	