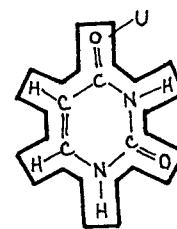
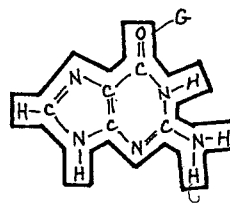
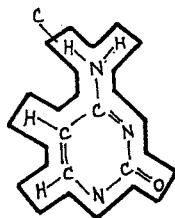
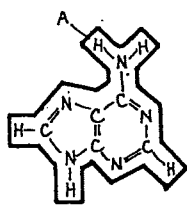


# THE GENETIC CODE.

## mRNA BASES\*

- ADENINE<sub>A</sub>
- CYTOSINE<sub>C</sub>
- GUANINE<sub>G</sub>
- URACIL<sub>U</sub>
- AMINO ACIDS\*
- ALANINE<sub>B</sub>
- ARGININE<sub>D</sub>
- ASPARAGINE<sub>E</sub>
- ASPARTIC ACID<sub>F</sub>
- CYSTEINE<sub>H</sub>
- GLUTAMINE<sub>I</sub>
- GLUTAMIC ACID<sub>J</sub>



- GLYCINE<sub>K</sub>
- HISTIDINE<sub>L</sub>
- ISOLEUCINE<sub>M</sub>
- LEUCINE<sub>N</sub>
- LYSINE<sub>O</sub>
- METHIONINE<sub>P</sub>
- PHENYLALANINE<sub>Q</sub>

- PROLINE<sub>R</sub>
- SERINE<sub>S</sub>
- THREONINE<sub>V</sub>
- TRYPTOPHAN<sub>W</sub>
- TYROSINE<sub>X</sub>
- VALINE<sub>Y</sub>

## SECOND mRNA BASE\*      STOP CODON<sub>Z</sub>

		FIRST mRNA BASE*				SECOND mRNA BASE*				STOP CODON <sub>Z</sub>							
		U <sup>-U'</sup>		C <sup>-C'</sup>		A <sup>-A'</sup>		G <sup>-G'</sup>		U <sup>-U'</sup>		C <sup>-C'</sup>		A <sup>-A'</sup>		G <sup>-G'</sup>	
FIRST mRNA BASE*	U <sup>-U'</sup>	UUU	Q	UCU	S	UAU	X	UGU	H	U <sup>-U'</sup>							
		UUC	Q	UCC	S	UAC	X	UGC	H	C <sup>-C'</sup>							
		UUA	N	UCA	S	UAA	Z	UGA	Z	A <sup>-A'</sup>							
		UUG	N	UCG	S	UAG	Z	UGG	W	G <sup>-G'</sup>							
	C <sup>-C'</sup>	CUU	N	CCU	R	CAU	L	CGU	D	U <sup>-U'</sup>							
		CUC	N	CCC	R	CAC	L	CGC	D	C <sup>-C'</sup>							
		CUA	N	CCA	R	CAA	I	CGA	D	A <sup>-A'</sup>							
		CUG	N	CCG	R	CAG	I	CGG	D	G <sup>-G'</sup>							
	A <sup>-A'</sup>	AUU	M	ACU	V	AAU	E	AGU	S	U <sup>-U'</sup>							
		AUC	M	ACC	V	AAC	E	AGC	S	C <sup>-C'</sup>							
		AUA	M	ACA	V	AAA	O	AGA	D	A <sup>-A'</sup>							
		AUG	P	ACG	V	AAG	O	AGG	D	G <sup>-G'</sup>							
G <sup>-G'</sup>	GUU	Y	GCU	B	GAU	F	GGU	K	U <sup>-U'</sup>								
	GUC	Y	GCC	B	GAC	F	GGC	K	C <sup>-C'</sup>								
	GUA	Y	GCA	B	GAA	J	GGA	K	A <sup>-A'</sup>								
	GUG	Y	GCG	B	GAG	J	GGG	K	G <sup>-G'</sup>								

THIRD mRNA BASE\*

## ORIGINAL MESSAGE<sub>AA</sub>

THE BIG DOG BIT TED AND RAN OFF

## DELETION AND FRAME SHIFT<sub>BB</sub>

THE BID OGB ITT EDA NDR ANO FF

↑  
DELETION

