

Gene Expression—Translation

How do cells synthesize polypeptides and convert them to functional proteins?

Why?

The message in your DNA of who you are and how your body works is carried out by cells through gene expression. In most cases this means synthesizing a specific protein to do a specific job. First, mRNA is transcribed from the DNA code. Then, the mRNA sequence is translated into a polypeptide sequence.

Model 1 – Codons

mRNA nucleotides		Second Base				Amino acids	
		U	C	A	G		
First Base	U	UUU Phe UUC Phe UUA Leu UUG Leu	UCU Ser UCC Ser UCA Ser UCG Ser	UAU Tyr UAC Tyr UAA stop UAG stop	UGU Cys UGC Cys UGA stop UGG Trp	U	Third Base
	C	CUU Leu CUC Leu CUA Leu CUG Leu	CCU Pro CCC Pro CCA Pro CCG Pro	CAU His CAC His CAA Gln CAG Gln	CGU Arg CGC Arg CGA Arg CGG Arg	U	
	A	AUU Ile AUC Ile AUA Ile AUG Met (start)	ACU Thr ACC Thr ACA Thr ACG Thr	AAU Asn AAC Asn AAA Lys AAG Lys	AGU Ser AGC Ser AGA Arg AGG Arg	U	
	G	GUU Val GUC Val GUA Val GUG Val	GCU Ala GCC Ala GCA Ala GCG Ala	GAU Asp GAC Asp GAA Glu GAG Glu	GGU Gly GGC Gly GGA Gly GGG Gly	U	
						C	
						A	
						G	

- Model 1 defines the code scientists have discovered that relates the nucleotide sequence of mRNA to the amino acid sequence of polypeptides.
 - What do the letters U, C, A, and G in Model 1 represent?
mRNA nucleotides
 - What do the abbreviations such as Phe, Ile, Ala, and Gly in Model 1 represent?
amino acids
 - The language of mRNA is often described as a "triplet code." Explain the significance of this reference.
3 nucleotides are needed to code one amino acid

Translation Pogil Answer Sheet

Oreste Vaccari

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Oreste Vaccari.

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English for Translation Cynthia Abrioux, Leslie George Rofe, Peter Strutt, 1992 **Developing a Process-Oriented Translation Test for Assessing English-Arabic Basic Translation Skills** Antar Solhy Abdellah, 2007 The study reviews translation validated tests and proposes a process oriented translation test for assessing basic translation skills for freshmen English majors at the faculty of Education The proposed test is developed based on the process approach to translating and translation teaching and is confined to translation from English to Arabic Translation basic skills reading comprehension researching analytical thinking and production are the four dimensions of the test Appended are 1 The Translation Test A Test in Basic Translation Skills for First Year English Majors and 2 Answer Key and Scoring Criteria Contains 11 tables 4 figures 4 footnotes and 1 diagram **Key to the Translation Exercises of the Complete Course of Study in the Use of the English Articles and Relative Pronouns** Oreste Vaccari, 1933 Occasional Papers University of Hawaii (Honolulu). Center for Cultural and Technical Interchange between East and West. Research Translations, 1964

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