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# Degeneracy of Genetic Code

- In the genetic code there are 64 codons. Three of them are stop codons (UAA, UAG & UGA).
- Remaining 61 codons code for 20 amino acids.
- Thus there are more than one codon for one amino acid.
- This is called degeneracy of genetic code.

		Second letter				Third letter
		U	C	A	G	
U	U	UUU Phenylalanine	UUC UUU Serine	UAU UAU Tyrosine	UGU UGU Cysteine	U C A G
	U	UUA UUA Leucine	UCC UCC Serine	UAA UAG Stop codon	UGA UGA Stop codon	
	U	UUG UUG Leucine	UCG UCG Serine	UAG UAG Stop codon	UGG UGG Tryptophan	
C	C	CUU CUU Leucine	CCU CCU Proline	CAU CAU Histidine	CGU CGU Arginine	U C A G
	C	CUC CUC Leucine	CCC CCC Proline	CAC CAC Histidine	CGC CGC Arginine	
	C	CUA CUA Leucine	CCA CCA Proline	CAG CAG Glutamine	CGG CGG Arginine	
A	A	AUU AUU Isoleucine	ACU ACU Threonine	AAU AAU Asparagine	AGU AGU Serine	U C A G
	A	AUC AUC Isoleucine	ACC ACC Threonine	AUA AUA Lysine	AGC AGC Serine	
	A	AUA AUA Isoleucine	ACA ACA Threonine	AAA AAA Lysine	AGA AGA Arginine	
G	G	GUU GUU Valine	GCU GCU Alanine	GAU GAU Aspartic acid	GGU GGU Glycine	U C A G
	G	GUC GUC Valine	GCC GCC Alanine	GAA GAA Aspartic acid	GGC GGC Glycine	
	G	GUA GUA Valine	GCA GCA Alanine	GAG GAG Aspartic acid	GGA GGA Glycine	

## Codon Usage Table

### Codon Usage: The Vertebrate Mitochondrial Code (transl\_table=2)

CCA(P) 3.42%	CGA(R) 0.92%	CAA(Q) 2.05%	CTA(L) 6.99%
CCG(P) 0.05%	CGG(R) 0.08%	CAG(Q) 0.08%	CTG(L) 0.71%
CCT(P) 0.79%	CGT(R) 0.21%	CAT(H) 0.89%	CTT(L) 2.29%
CCC(P) 0.89%	CGC(R) 0.47%	CAC(H) 1.66%	CTC(L) 1.68%
GCA(A) 2.52%	GGA(G) 2.87%	GAA(E) 2.10%	GTA(V) 1.95%
GCG(A) 0.18%	GGG(G) 0.76%	GAG(E) 0.29%	GTG(V) 0.29%
GCT(A) 1.24%	GGT(G) 0.92%	GAT(D) 0.82%	GTT(V) 1.31%
GCC(A) 2.18%	GGC(G) 1.03%	GAC(D) 1.13%	GTC(V) 0.87%
ACA(T) 4.13%	AGA(*) 0.00%	AAA(K) 2.66%	ATA(M) 5.71%
ACG(T) 0.16%	AGG(*) 0.00%	AAG(K) 0.05%	ATG(M) 0.79%
ACT(T) 1.55%	AGT(S) 0.37%	AAT(N) 1.58%	ATT(I) 6.13%
ACC(T) 2.26%	AGC(S) 0.92%	AAC(N) 2.84%	ATC(I) 3.68%
TCA(S) 3.87%	TGA(W) 2.52%	TAA(*) 0.21%	TTA(L) 3.39%
TCG(S) 0.11%	TGG(W) 0.18%	TAG(*) 0.05%	TTG(L) 0.39%
TCT(S) 1.10%	TGT(C) 0.26%	TAT(Y) 1.71%	TTT(F) 2.87%
TCC(S) 1.24%	TGC(C) 0.47%	TAC(Y) 1.58%	TTC(F) 3.50%

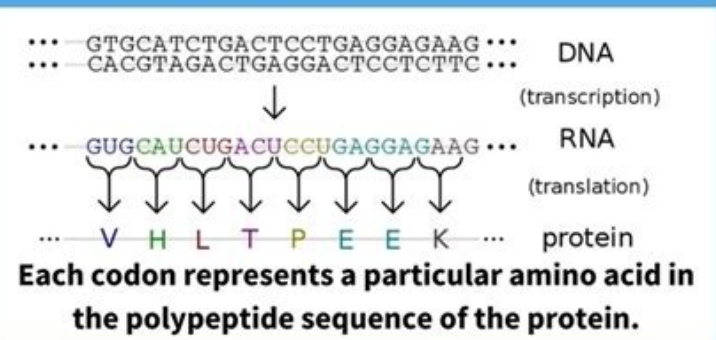
## How Does DNA Code for Proteins in a Cell

DNA is the genetic material of most organisms.

DNA is made up of a series of nucleotides.

The protein-coding regions in the genome are known as genes.

The nucleotide triplets in the coding region of the gene are known as codons.



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The genetic code has 64 codons. In the genetic code dictionary there are 64 codons. Why are there 64 codons in the genetic code. 64 triplets of genetic code. How to find the genetic code. 64 codons constitute genetic code because. Genetic code 64 codons.

No new notifications You'll get updated when important things are happening, and when you engage with our community. - Scroll down to continue - Share Pin it Tweet Share Email Although your next job interview won't have as many as 64 questions, your would-be employer will almost certainly ask at least one of these. Tell me about yourself. TRAPS: Beware, about 80% of all interviews begin with this "innocent" question. Many candidates, unprepared for the question, skewer themselves by rambling, recapping their life story, delving into ancient work history or personal matters. BEST ANSWER: Start with the present and tell why you are well qualified for the position. Remember that the key to all-successful interviewing is to match your qualifications to what the interviewer is looking for. In other words you must sell what the buyer is buying. This is the single most important strategy in job hunting. Reading through this list it's hard to come up with something CrackInterview have missed. Know of any new questions that may trip up applicants? 64 Interview Answers You Need To Know - [CrackInterview] Share Pin it Tweet Share Email Jutting out over the water in a slick modern building, this upmarket wine bar and steakhouse caters to the boat-shoes brigade with slabs of meat of Flintstones proportions. They also serve plenty of sophisticated bistro-style dishes, including lots of seafood, with a raw bar slicing, dicing and shucking fresh sashimi, ceviche and oysters.null Friday December 25, 2015 9:24 pm PST by Joe Rossignol/OpenEmu, an open source retro and arcade game emulator for OS X, has been updated to version 2.0.1 with support for 16 additional gaming systems, including Nintendo 64, Sony PlayStation 1 and PSP, ColecoVision, Intellivision and others listed below. OpenEmu 2.0.1 also features a redesigned user interface, real-time gameplay rewinding, save states and screenshots organizers, automap support for ...



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