Genetic Mutations

What mistakes can occur when DNA is replicated?

Why?

The genes encoded in your DNA result in the production of proteins that perform specific functions within your cells. Various environmental factors and spontaneous events can lead to changes in genes. These changes, called mutations, can lead to alterations in the structure and activity of the proteins your cells use in their daily activities. In other words, changes to your genotype can result in changes to your phenotype. We all have mutations in most of our body cells—yet we are, for the most part, normal and functional human beings. How can that be?

Model 1 - Gene Mutations

Sequence 1 (normal)

bedoence a timosumusi																								
DNA sequence		T	A	(C)	-Ci-	T	A.	40%	T	C	A.	C	\subset	T	A	A	T	C	G	A	T	(C)		
mRNA sequence		A	O	G	C	A	U	C	A	G	U	G	G	A	W	U	A	C	C	W	A.	G		
Amino acid sequence	Met			His			Glin			Tirp				He			The			stop				
Sequence 2 (substitut	ion)																							
DNA sequence		T	A	C	C	T	A	G	T	C	A	43	C	T	A	A	T	C 3	C	A	T	C.	C	
mRNA sequence		A	U	G	\mathbf{C}	A	U	C	A.	G	U	C	\mathbf{G}	A	W.	O	A	C	\mathbf{C}	U	A	G		
Amino acid sequence	Met			His			Glm			Ser				He			The			stop				
Sequence 3 (insertion	a																							
DNA sequence		\mathbf{T}	A	C	G	T	A	T	-C	T	C	A.	C	C	T	A	A	T	G	C	A.	T	C	
mRNA sequence		A	101	G	C	A	U	A	C	A	G	W	G	G	A	U	U	A	C	C	W	A	G	
Amino acid sequence	Met			His			The			Val				Asp			Tyr			Leu				
Sequence 4 (deletion)																								
DNA sequence	200	\mathbf{T}	A	C	G	T	A	G	T	C	C	C	T	A	A	T	G	45	JA.	T	(C)	and the		
mRNA sequence		A	TO:	C	\mathbf{C}	A	U	C	A	G	G	Œ	A	U	W	A	C	(C)	U	A	(C)			
Amino acid sequence	Met			1-tis				Glm			Gily			Leu			Pro							

- How many nucleotides are present in the "normal" DNA sequence in Model 1?
- How many codoes are contained in the mRNA that is produced by the "normal" DNA in Model 1?
- 3. How many amino acids will be in the polypeptide produced by the normal DNA/mRNA sequence?

What Mistakes Can Occur When Dna Is Replicated Answers

Cheng-Hun Lin, Daiwie Fu

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