



DNA

DNA is a molecule in the cell nucleus that contains instructions for making proteins. It is made of four different bases: adenine (A), thymine (T), guanine (G), and cytosine (C). A segment of DNA that contains the information for making a protein is called a gene. In the process of transcription, DNA that makes up a gene is copied into a complementary molecule called messenger RNA (mRNA).

RNA

mRNA is also made of four bases: adenine (A), uracil (U), guanine (G), and cytosine (C). mRNA moves from the nucleus to the cytoplasm where it interacts with ribosomes, the protein factories of the cell. There, through a process called translation, mRNA is translated into amino acids. A sequence of three mRNA bases is called a codon, and each codon is translated into a specific amino acid. There are 20 different kinds of amino acids in humans.



mRNA

Codons



Ribosome

Amino acids

Growing protein chain



PROTEIN

As an mRNA molecule is translated, a chain of amino acids is formed. The chain eventually folds into a three-dimensional protein. The shape of a protein determines its function. Proteins have millions of functions in cells.

GENETIC CHANGES AND CANCER

HOW GENETIC INFORMATION CREATES PROTEINS

TYPES OF GENETIC MUTATIONS IN CANCER

DNA alterations can affect the structure, function, and amount of the corresponding proteins. All of these effects can change a cell's behavior from normal to cancerous. For example, a genetic alteration can intensify or eliminate the protein's function, which could make cells divide uncontrollably. Many different kinds of genetic mutations are found in cancer cells, including missense, nonsense, and frameshift mutations and chromosome rearrangements.

MISSENSE MUTATION

Original	CTA LEU (leucine)	TGG TRP (tryptophan)	GTA VAL (valine)	DNA Amino Acids
Mutation	CTA LEU (leucine)	TGT CYS (cysteine)	GTA VAL (valine)	DNA Amino Acids

A missense mutation is a change of a single DNA base that results in a change in the amino acid sequence. Sometimes a single amino acid change can greatly alter the protein's function.

NONSENSE MUTATION

Original	CTA LEU (leucine)	TGG TRP (tryptophan)	GTA VAL (valine)	DNA Amino Acids
Mutation	CTA LEU (leucine)	TGA STOP	GTA VAL (valine)	DNA Amino Acids

A nonsense mutation is a change of a single DNA base that creates a "stop" codon, which terminates translation. The result is a shortened protein that may not function or that may have an abnormal function.

FRAMESHIFT MUTATION

Original	CTA LEU (leucine)	TGG TRP (tryptophan)	GTA VAL (valine)	DNA Amino Acids
Mutation	CTA LEU (leucine)	ATG MET (methionine)	GGT GLY (glycine)	DNA Amino Acids

A frameshift mutation results from the addition or removal of DNA bases that shifts the DNA sequence and the corresponding amino acid sequence. The result is a protein whose sequence, structure, and function are very different from those of the original protein.

CHROMOSOME REARRANGEMENTS

DNA is wound tightly into structures called chromosomes. Chromosome rearrangements can occur when a piece of a chromosome breaks and is lost entirely (deletion), moves to a different chromosomal location (translocation), flips directions (inversion), or is repeated (duplication). These rearrangements can alter several genes at once. For example, they can generate fusion genes, in which parts of two separate genes are joined together. Proteins made from fusion genes sometimes cause cancer.



Genes Cancer And Ethics In The Work Environment

VM Jensen



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