

Investigation: DNA, Proteins, and Sickle Cell

Sickle cell is a disease where a person has abnormally shaped blood cells. The reason for the abnormal shape of blood lies in the underlying genetic code.

The sequence below shows a part of the genetic code for the **HBB Gene**. This gene provides the instructions for making a protein called beta-globin. The gene sequence is shown below. Use the sequence to create RNA and the sequence of amino acids.

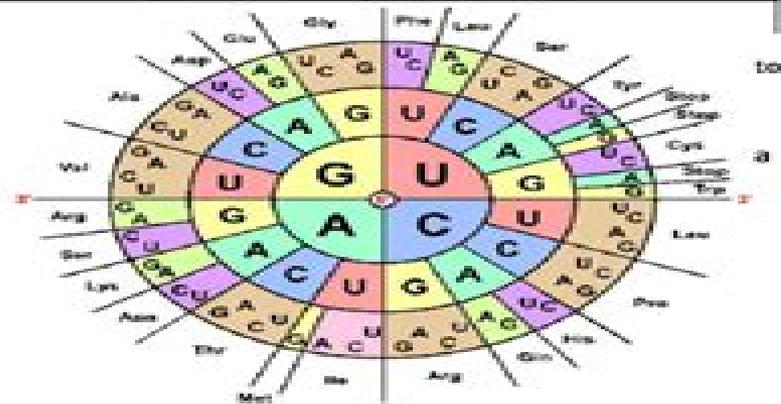


DNA of HbA- hemoglobin in normal adults							
DNA 3'to 5'	CAC	GTG	GAC	TGA	GGA	CTT	CTC
RNA	GUG	CAC	CUG	ACU	CCU	GAA	GAG
Amino Acid	VAL	HIS	LEU	THR	PRO	GLU	GLU

Each amino acid in the chain joins together and then folds into a three dimensional shape - a PROTEIN. In most people, that protein is fully functional and results in blood cells that have a round shape and can bind with oxygen efficiently. What would happen if one small change occurs?

DNA of HbS- hemoglobin found in individuals with sickle cell anemia							
DNA	CAC	GTG	GAC	TGA	GGA	CAT	CTC
RNA	GUG	CAC	CUG	ACU	CCA	GUA	GAG
Amino Acid	VAL	HIS	LEU	THR	PRO	VAL	GLU

The change in the sequence of HbS causes the blood cells be shaped like sausages, rather than round. These cells cannot bind oxygen as efficiently and become clogged in tiny capillaries. The result is a person who is **ANEMIC**, or has low amounts of oxygen in their blood, which will make person feel tired. The abnormal cells can become clumped together causing blood clots, which may damage tissue or even lead to a stroke. People with sickle cell anemia may also experience pain in their joints.



Gene Mutations And Proteins Answers

**Alan Atherly, Jack R. Girton, John
McDonald**

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