

CHNOPS- Protein Synthesis Activity

Background Information

Protein synthesis is the process by which a protein is made. As you learned last semester, a protein is a chain of amino acids held together by a peptide bond. This chain may be 10's, 100's, or even 1000's long and has a specific function (i.e. tubulin microtubules, catalase in cells, helicase to unwind DNA, etc.). There are only 20 amino acids; we are able to make 12 in our bodies (termed nonessential) and we must intake the other 8 in the food we eat (essential - isoleucine, leucine, lysine, methionine, phenylalanine, threonine, tryptophan and valine. It is the sequence of the amino acids which determines the specific protein. The sequence of amino acids is determined by our DNA. DNA is the blueprint for all proteins and their respective amino acid sequences. A section of a DNA which codes for a sequence of amino acids (protein) is called gene. It is the specific proteins which gives us our traits and characteristics. In this lab, you will simulate protein synthesis and create a creature called a "CHNOPS."

Problem

How is the protein synthesis related to our traits and characteristics?

Procedure

You are given the DNA sequences of 6 genes. You are to complete the protein synthesis for each gene and record the trait each protein determines. Once you have determined all 6 traits for your CHNOPS, you will use those traits to draw out how the CHNOPS might appear as part of your data in color on the back.

Data

Trait 1

DNA: **ATCGAGTCA**

mRNA

tRNA

AA's

Trait

Trait 2

DNA: **TTGCATTAA**

mRNA

tRNA

AA's

Trait

Trait 3

DNA: **AAACCGTTA**

mRNA

tRNA

AA's

Trait

Trait 4

DNA: **GATTACAAA**

mRNA

tRNA

AA's

Trait

Trait 5

DNA: **GAGTAGCAT**

mRNA

tRNA

AA's

Trait

Trait 6

DNA: **TATTAACAA**

mRNA

tRNA

AA's

Trait

<u>mRNA</u>	<u>AA #</u>
UUU	1
UAG	2
GUU	3
GUA	4
GOC	5
CUC	6
CUA	7
AUU	8
AUG	9
AUC	10
AUA	11
AGU	12
AAU	13
AAC	14

<u>AA Sequence</u>	<u>Trait</u>
2 - 6 - 12	male
2 - 7 - 12	female
8 - 11 - 3	hairy
1 - 5 - 13	seven eyes
6 - 10 - 4	tall
7 - 9 - 1	yellow and green hair
7 - 10 - 1	blue hair
11 - 8 - 3	8 legs
14 - 4 - 8	two head
14 - 4 - 10	one head

Chnops Protein Synthesis

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Chnops Protein Synthesis:

The Enigmatic Realm of **Chnops Protein Synthesis**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Chnops Protein Synthesis** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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