

**CHNOPs Lab**

**Introduction:** In this investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by CHNOPs (organisms called CHNOPs).

CHNOPs, whose cells contain only one chromosome, are members of the kingdom, *Armedilia*. A CHNOP's chromosome is made up of six genes (A, B, C, D, E, and F), each of which is responsible for a certain trait.

**Problems:** How can the traits on a particular chromosome be determined? How can these traits determine the characteristics of an organism?

**Materials:**  
Blue Pencils  
Orange Pencils

- Procedure:**
- To determine the trait for Gene A of your CHNOP, refer to the information in the box labeled Gene A in the Data Table provided. Record the sequence of nucleotides in DNA. On the line provided, write the sequence of nucleotides of mRNA that are complementary to DNA.
  - In order to determine the sequence of amino acids, match each mRNA triplet with the specific amino acid in Figure 1. Using a – Punnett's to separate each.
  - Amino acid number record this information in the appropriate place in the Data Table.
  - Using Figure 2, find the trait that matches the amino acid sequence. Record this information in the appropriate place in the Data Table.
  - Repeat steps 1 through 3 for the remaining genes (B through F).
  - Using all the recorded traits, assign your CHNOPs in the space provided.

Figure 1

mRNA Triplet	Amino Acid Number
AAC	20
AAG	18
CAK	7
AAC	4
CCC	3
GGG	5
AAA	6
UUU	8
GGG	12
UUU	10
CCC	9
AAA	1
GGG	11

Figure 2

Amino Acid Sequence	Trait
20-18-7	Hairless
20-18-10	Heavy
20-12-7	Polych
1-5-2-8	Heavy
7-8-2	Four-legged
7-5-2-1	Long Nose
2-2-1	Short Nose
3-8	No Fingers
8-4	Protein
11-2-2	Blue Skin
11-2-3	Orange Skin
5-6-10	Male
5-6-12	Female

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# Chnops Lab Answer Key

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CHNOPS, whose cells contain only one chromosome, are members of the kingdom Animalia. A CHNOPS chromosome is made up of eight genes (A, B, C, D, E, F, G and H), each of which is responsible for a certain trait.

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### **CHNOPS Lab - wobiology.com**

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Figure 2. CHNOPS LAB Conclusion Questions. 1. Distinguish between translation and transcription. 2. What is the specific site for transcription and translation in the cell? 3. How many tRNA nucleotides form an anticodon? What will attach to the mRNA codon?

### **CHNOPS Lab - Stirling Biology - Google Sites**

CHNOPS Simulating Protein Synthesis. Protein Forming Protein Synthesis. This page has all the information you need to complete the CHNOPS assignment. Base Pairing Rules for Transcription and Paring of Codon to Anti-Codon tRNAAnti-Codons and the Amino Acid they carry Amino Acid Sequences and the Protein they produce. UGG -CCA -AUA Follow the instructions on the next pages to complete your ...

### **CHNOPS Simulating Protein Synthesis**

CHNOPS, whose cells contain only one chromosome, are members of the kingdom Animalia. A CHNOPS chromosome is made up of eight genes (A, B, C, D, E, F, G and H), each of which is responsible for a certain trait.

### **CHNOPS Lab - Mrs. Musto 7th Grade Life Science**

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each of which is responsible for a certain trait.

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In this investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by fictitious organisms called CHNOPS. CHNOPS, whose cells contain only one chromosome made up of six genes (A, B, C, D, E, and F), are members of the Kingdom Animalia. Each gene is responsible for a certain trait.

### **CHNOPS! - Simulating Protein Synthesis**

CHNOPS- Simulating Gene Expression. Objectives: Before doing this assignment you should be able to: define gene. state where in the cell transcription and translation take place. describe the structure and function of DNA and RNA in inheritance. After doing this assignment you should be able to: distinguish between transcription and translation. describe the role of mRNA and tRNA in gene ...

### **CHNOPS- Simulating Protein Synthesis**

CHNOPS, whose cells contain only one chromosome, are members of the kingdom Animalia. A CHNOPS chromosome is made up of six genes (A, B, C, D, E, and F), each of which is responsible for a certain trait. Your job is to transcribe your CHNOPS DNA and then translate it into the correct amino acid sequence to find out the traits of your CHNOPS.

### **Making your CHNOPS! - Mrs. Corse-Scott's Biology Zone**

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### **Fishel ABC: CHNOPS Lab level 1/2**

The process by which the information from DNA is transferred into the language of proteins is known as translation. In this investigation, you will simulate the mechanism of protein synthesis and thereby determine the traits inherited by fictitious organisms called CHNOPS.

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