

Protein Synthesis Lab Answers Key

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TITLE OF THE EXERCISE: PROTEIN SYNTHESIS ACTIVITY

Protein Synthesis Background DNA carries the information for the synthesis of all the proteins of an organism Protein molecules are large and complex, composed of hundreds of amino acid units In each kind of protein, the amino acid units are linked together in a definite sequence The sequence of amino acids in a protein molecule is

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Page 42 1st Idea: Life Contains DNA: it is a SELFREPLICATING molecule DNA replicates itself (via DNA polymerase and other enzymes) in a semi-conservative manner This means that at the end of replication, each of the daughter molecules has one old strand, from the parent strand of DNA, and one

Names: Key Hour: Date: /25 Points

LZHS - Chapter 12 Protein Synthesis Lab Biology I CP 1 Names: Key Hour: Date: /25 Points As a group of four, decide who is going to carry out which job (Jobs can be found on page 2) Follow the instructions below for the three numbers assigned to your group from the sentence code sheet (Page 3)

HS-LS1-1 Taco Protein Synthesis Activity

Name: ____ Taco Protein Synthesis Activity HS-LS1-1 (____ points) KEY I can statements for the HS-LS1-1 Unit: I can model the structure of DNA and describe the importance of it within our cells I can construct an explanation of how genes code for proteins Directions: In this activity you will use your knowledge of protein synthesis to decode a DNA

DNA Replication & Protein Synthesis Answers

DNA REPLICATION AND PROTEIN SYNTHESIS ANSWERS 1 DNA is made of nucleotides Each nucleotide consists of a nitrogen base, a phosphate group, and a deoxyribose sugar 2 DNA will replicate itself when the cell is undergoing cell division, that is, new cells are being made from pre-existing cells Examples of when this will occur are sperm and ova

M7 Snork Synthesis Lab - Easy Peasy All-in-One High School

Snork Synthesis Lab 1 of 5 Snork Synthesis Lab Lab Directions This activity, modified from the original at The Biology Corner, will help you practice your understanding of protein synthesis Submit your lab answers according to the directions and grading rubric below Overview: In this simulation, you will examine the DNA sequence of a

Key: Yell onent Modeling Protein Synthesis

List the steps of protein synthesis and tell where they occur Version: July 2014 3 answers) Well with the knowledge we have today, it would be impossible to cause such a drastic Go to the lab table in the front of the room This is where the nucleus of a cell is located

HS-LS1-1 Protein Synthesis Practice

HS-LS1-1 Protein Synthesis Practice KEY What would happen to the protein above if the sequence of DNA changed by one base? Provide an example of how the protein would change using the above strand Answers will vary here If the amino acid sequence above changed by one base pair, the entire

Name Period AP Biology Date LAB : PROTEIN SYNTHESIS ...

LAB ___: PROTEIN SYNTHESIS — TRANSCRIPTION AND TRANSLATION DNA is the molecule that stores the genetic information in your cells That information is coded in the four bases of DNA: C (cytosine), G (guanine), A (adenine), and T (thymine) The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic

SAY IT WITH DNA: PROTEIN SYNTHESIS WORKSHEET: Practice ...

Hand out the Say It With DNA: Protein Synthesis Worksheet provided (along with a test key for you to use in grading the test) Insist that each step be shown and the molecules involved be labeled (DNA, mRNA, tRNA, "protein" (as the "meaningful amino acid sequence")) Include completeness and accuracy in showing these steps and labels in

Name Period Date - Gulf Coast State College

Name ___ Period ___ Date ___ Protein Synthesis Simulation Lab Part 1: Introduction DNA is a very long, thin molecule located in the nucleus The DNA in one chromosome has 10s of millions of base pairs and hundreds or thousands of genes Yet an individual cell will

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Name Period Regents Biology Date LAB : HOW ARE PROTEINS ...

2 We are going to use this section of our DNA as a gene to make a protein the cell needs Remember it used to be part of a double-stranded DNA molecule But it has already been unzipped and now will be used as the template to build your mRNA, one base at a time So first design an RNA polymerase enzyme to do this mRNA synthesis job 3

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LEGO Protein Synthesis Teachers Resources

LEGO Protein Synthesis Teacher Notes Purpose To understand that different cells build different proteins because they use different genes of the same DNA molecule Overview Students will work in small groups (4-5 students) Each group will take on the identity of a different cell type

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LEGO PROTEIN SYNTHESIS (25 pts PURPOSE proteins

LEGO PROTEIN SYNTHESIS (25 pts) PURPOSE: Your cells come in all shapes and sizes Different types of cell make different proteins according to the jobs they have to do For example, only red blood cells contain the protein hemoglobin which carries oxygen around your body Similarly, only cells in your eyes make proteins for detecting light

ALL ABOARD FOR PROTEIN SYNTHESIS LAB

All Aboard for Protein Synthesis ©2001, 2003wwwBeaconLearningCentercom Rev060303 ALL ABOARD FOR PROTEIN SYNTHESIS LAB Intro: DNA and RNA, the 2 types of nucleic acids found in cells, determine which protein molecules a cell synthesizes Protein molecules, formed by ...

Honors Biology Ninth Grade Pendleton High School

Honors Biology Ninth Grade Pendleton High School TABLE OF CONTENTS Unit Overview Appendix Pretest Notes Power Points Student Notes Sheets Worksheets and Lab Handouts Quizzes Unit Test and Answer Key UNIT OVERVIEW UNIT TOPIC: DNA, RNA, and Protein Synthesis o Key Concepts: protein synthesis, transcription, messenger RNA, translation