

Protein Synthesis Lab

Purpose:

Recognize that the sequence of bases in DNA determines the shape, structure, and function of a protein.

Materials:

- Scissors
- White paper
- Pencil
- Construction paper
- Lab handout
- Tape

Background:

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C, G, A, and T. The DNA directs the functions of the cell on a daily basis and will also be used to pass on the genetic information to the next generation. Because of its critical role in all the functions of the cell, DNA is kept protected in the nucleus of eukaryotic cells.

DNA is organized into sections called genes. Gene code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins that serve as the building blocks of cells and bodies. They also function as enzymes, who are the little molecular chemists in bodies.

Proteins are made in the cytoplasm by protein factories called ribosomes. So, the information from DNA must be transmitted from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for mRNA molecules. The mRNA is made by matching its complementary bases- C, G, A, and U to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the p[protein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three called codons. Another type of RNA, tRNA, brings the protein building blocks, amino acids, to the ribosome as they are needed. The ribosome bonds the amino acids together to build the protein coded for by the gene back in the nucleus.

Procedures

1. Your group should obtain one sheet of paper with your four sections of DNA. Cut the strips out along straight lines and tape them together to make a long one-sided DNA molecule. Each section is numbered. Lay them out on the desk from left (#1) to right (#4). See the diagram below.



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. **TRANSCRIPTION:** You have been supplied with mRNA nucleoside bases. Build a mRNA molecule from this gene by matching the mRNA bases to your DNA template, one base at a time. Tape this mRNA molecule along its length to simulate the strong bonds that the RNA polymerase makes between the mRNA bases. This way, it will be a stable molecule and can

Proteins Synthesis Lab Answers

RJ Alexander



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Labster Virtual Lab Experiments: Basic Biology Sarah Stauffer, Aaron Gardner, Dewi Ayu Kencana Ungu, Ainara López-Córdoba, Matthias Heim, 2018-11-29 This textbook helps you to prepare for both your next exams and practical courses by combining theory with virtual lab simulations With the Labster Virtual Lab Experiments book series you have the unique opportunity to apply your newly acquired knowledge in an interactive learning game that simulates common laboratory experiments Try out different techniques and work with machines that you otherwise wouldn't have access to In this volume on Basic Biology you will learn how to work in a biological laboratory and the fundamental theoretical concepts of the following topics Lab Safety Mitosis Meiosis Cellular Respiration Protein Synthesis In each chapter you will be introduced to the basic knowledge as well as one virtual lab simulation with a true to life challenge Following a theory section you will be able to play the corresponding simulation Each simulation includes quiz questions to reinforce your understanding of the covered topics 3D animations will show you molecular processes not otherwise visible to the human eye If you have purchased a printed copy of this book you get free access to five simulations for the duration of six months If you're using the e-book version you can sign up and buy access to the simulations at www.labster.com springer If you like this book try out other topics in this series including Basic Genetics Basic Biochemistry and Genetics of Human Diseases Please note that the simulations included in the book are not virtual reality VR but 2D virtual experiments

Cell and Molecular Biology and Lab Work Mr. Rohit Manglik, 2024-06-24 A combined theoretical and practical approach to the study of cell and molecular biology with detailed lab exercises and methods

Exploring Physical Anthropology: Lab Manual and Workbook, 4e Suzanne E Walker Pacheco, 2022-01-14 Exploring Physical Anthropology is a comprehensive full color lab manual intended for an introductory laboratory course in physical anthropology It can also serve as a supplementary workbook for a lecture class particularly in the absence of a laboratory offering This laboratory manual enables a hands on approach to learning about the evolutionary processes that resulted in humans through the use of numerous examples and exercises It offers a solid grounding in the main areas of an introductory physical anthropology lab course genetics evolutionary forces human osteology forensic anthropology comparative functional skeletal anatomy primate behavior paleoanthropology and modern human biological variation

Structural Insights Into Gene Expression And Protein Synthesis Thomas A Steitz, 2020-08-18 Several years ago Thomas Steitz agreed to contribute a volume to the World Scientific Series in Structural Biology that would deal with the contributions he and his coworkers have made to structural biology during his remarkable career Sadly Tom died in the fall of 2018 before he had had time to do more than produce an outline for this book and a list of the reprints he wanted it to contain Fortunately Tom's colleagues and coworkers responded enthusiastically when they were informed later that fall that if they were willing to help out a volume would be published to commemorate his career It fell to Anders Liljas Peggy Eatherton Tom's longtime administrative assistant and Peter Moore a close colleague to oversee

their efforts Thomas Steitz is best known for the work he and his coworkers did to elucidate the biochemical basis of gene expression The structures of a large number of the macromolecules involved in transcription and translation emerged from his laboratory over the course of his career This book includes reprints of the most important papers he had published grouped according to the structures they relate to and commentaries written by the scientists who collaborated with him to solve each of them It thus summarizes the achievements of one of the most distinguished biochemists of the second half of the 20th century

Lab Manual for General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, 2009-08-21 Teaching all of the necessary concepts within the constraints of a one term chemistry course can be challenging Authors Denise Guinn and Rebecca Brewer have drawn on their 14 years of experience with the one term course to write a textbook that incorporates biochemistry and organic chemistry throughout each chapter emphasizes cases related to allied health and provides students with the practical quantitative skills they will need in their professional lives Essentials of General Organic and Biochemistry captures student interest from day one with a focus on attention getting applications relevant to health care professionals and as much pertinent chemistry as is reasonably possible in a one term course Students value their experience with chemistry getting a true sense of just how relevant it is to their chosen profession To browse a sample chapter view sample ChemCasts and more visit www.whfreeman.com

40 Inquiry Exercises for the College Biology Lab A. Daniel Johnson, 2009 Drawing from the author's own work as a lab developer coordinator and instructor this one of a kind text for college biology teachers uses the inquiry method in presenting 40 different lab exercises that make complicated biology subjects accessible to major and nonmajors alike The volume offers a review of various aspects of inquiry including teaching techniques and covers 16 biology topics including DNA isolation and analysis properties of enzymes and metabolism and oxygen consumption Student and teacher pages are provided for each of the 16 topics

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Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004

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Molecular Cell Biology Harvey F. Lodish,2008 The sixth edition provides an authoritative and comprehensive vision of molecular biology today It presents developments in cell birth lineage and death expanded coverage of signaling systems and of metabolism and movement of lipids

NIH: An Account of Research in Its Laboratories and Clinics DeWitt Stetten,2014-05-10 NIH An Account of Research in Its Laboratories and Clinics contains collected accounts of the Intramural Research Program as they happened in the laboratories and clinics in various installations of the National Institutes of Health across the U S A One paper discusses the etiology of schizophrenia which notes that based on evidence and expanded adoption studies by Ketty Rosenthal and Wender genetic factors actually contribute to the development of the disease In developing countries schizophrenia follows a more benign course Some papers describe bacteriology mycology viral hepatitis basic immunology clinical immunology and the development of enzymology Researchers studying proteins elucidate on the synthesis and folding of protein chains protein conformation and dynamics the semisynthesis and protein function as well as on sequence analysis and collagen research Other papers describe the breaking of the genetic code the progress made from the genetic code to beta thalassemia to investigations of genetic diseases such as galactosemia gout Lesch Nyhan disease mucopolysaccharide storage disease and sickle cell disease One paper notes the contribution of the intramural clinical research program of the National Cancer Institute to cancer therapy with emphasis in cancer chemotherapy Professors in pharmacology practitioners of general medicine specialists or researchers dealing with microchemistry toxicology drug therapy or oncology will find the collection valuable

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