

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[rotein 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.

Procedure:

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 nucleotide 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

Protein Synthesis Lab Answers

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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 *Teaching English Language Learners* Michaela Colombo, Dana Furbush, 2009 This book prepares mainstream teachers to provide content instruction to English language learners **Obstetric and Pediatric Pathophysiology** Bernadette Madara, Carol T. Avery, Vanessa

Pomarico-Denino, Linda Wagner, 2008 Quick Look Nursing Obstetric and Pediatric Pathophysiology is a quick reference book that works well as a supplement to other text books It covers areas such as Neuro Immune System Endocrine and Respiratory It s great for Pediatric and OB clinical courses ADN and BSN students and nursing staff development departments Organized by a body system approach each section begins with a brief review of anatomy and physiology and includes a listing of diagnostic measures pertinent to that system **Argument-driven Inquiry in Biology** Victor Sampson, 2014-04-01 Are you interested in using argument driven inquiry for high school lab instruction but just aren t sure how to do it You aren t alone This book will provide you with both the information and instructional materials you need to start using this method right away Argument Driven Inquiry in Biology is a one stop source of expertise advice and investigations The book is broken into two basic parts 1 An introduction to the stages of argument driven inquiry from question identification data analysis and argument development and evaluation to double blind peer review and report revision 2 A well organized series of 27 field tested labs that cover molecules and organisms ecosystems heredity and biological evolution The investigations are designed to be more authentic scientific experiences than traditional laboratory activities They give your students an opportunity to design their own methods develop models collect and analyze data generate arguments and critique claims and evidence Because the authors are veteran teachers they designed Argument Driven Inquiry in Biology to be easy to use and aligned with today s standards The labs include reproducible student pages and teacher notes The investigations will help your students learn the core ideas crosscutting concepts and scientific practices found in the Next Generation Science Standards In addition they offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards Many of today s teachers like you want to find new ways to engage students in scientific practices and help students learn more from lab activities Argument Driven Inquiry in Biology does all of this even as it gives students the chance to practice reading writing speaking and using math in the context of science

General Biology Lab Manual Russell Skavaril, Mary Finnen, Steven Lawton, 1993 This laboratory manual suitable for biology majors or non majors provides a selection of lucid comprehensive experiments that include excellent detail illustration and pedagogy Chapter Resource 10 How Proteins/Made Biology Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **Biochemistry Question-Answer** Mr. Rohit Manglik, 2024-07-30 A concise collection of frequently asked questions and answers in biochemistry useful for exam preparation and concept reinforcement *Part - Anatomy &*

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Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24

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among physicians who generally care for patients without addressing the nutritional and metabolic perspective

Features

- State of the art guidelines for practicing metabolic medicine in the hospital setting
- Hands on guide for day to day metabolic management of hospitalized patients
- Personal insights from one of the field's leading practitioners drawing upon decades of experience
- Historical reviews of key scientific developments

This book is written by Dr Michael M Rothkopf Clinical Professor of Medicine at Rutgers New Jersey Medical School Dr Rothkopf founded the Metabolic Medicine Center at Morristown Medical Center and is the current Metabolic Medicine Consultant for the Heart Transplant Lung Transplant Cardiac Surgery and Wound Care Programs at RWJBH Newark Beth Israel Medical Center This book is directed at the physician level of hospital care It provides value to a broad range of physicians regardless of their medical specialty or subspecialty It will also be useful for medical students and resident physicians in training as well as nurse practitioners and physician assistants working in hospital settings

Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez, Scott Pattison, 2015-01-01 Biochemistry laboratory manual for undergraduates an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model antibiotic resistance to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics The novelty of this manual is the incorporation of a student driven real life research project into the undergraduate curriculum Since students test their own mutant design even the most experienced students remain engaged with the process while the less experienced ones get their first taste of biochemistry research Inclusion of a research project does not entail a limitation this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic

Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of

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Table of Contents Protein Synthesis Lab Answers

1. Understanding the eBook Protein Synthesis Lab Answers
 - The Rise of Digital Reading Protein Synthesis Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Protein Synthesis Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Protein Synthesis Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Protein Synthesis Lab Answers
 - Personalized Recommendations
 - Protein Synthesis Lab Answers User Reviews and Ratings
 - Protein Synthesis Lab Answers and Bestseller Lists

5. Accessing Protein Synthesis Lab Answers Free and Paid eBooks
 - Protein Synthesis Lab Answers Public Domain eBooks
 - Protein Synthesis Lab Answers eBook Subscription Services
 - Protein Synthesis Lab Answers Budget-Friendly Options
6. Navigating Protein Synthesis Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Protein Synthesis Lab Answers Compatibility with Devices
 - Protein Synthesis Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Protein Synthesis Lab Answers
 - Highlighting and Note-Taking Protein Synthesis Lab Answers
 - Interactive Elements Protein Synthesis Lab Answers
8. Staying Engaged with Protein Synthesis Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Protein Synthesis Lab Answers
9. Balancing eBooks and Physical Books Protein Synthesis Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Protein Synthesis Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Protein Synthesis Lab Answers
 - Setting Reading Goals Protein Synthesis Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Protein Synthesis Lab Answers
 - Fact-Checking eBook Content of Protein Synthesis Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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