

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

Proteins Synthesis Lab Answers

Barbara B. Hodgson, Robert J. Kizior

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author names.

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A Manual of Laboratory Experiences in Cell Biology C. Edward Gasque, Clayton Edward Gasque, 1989 **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

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

Part - Anatomy & Physiology Laboratory Manual - E-Book Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book

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Individuality and Determinism Sidney Fox,2012-12-06 The significance of human individuality is such that each human functions as a unique molecular unit of the mass of humanity Understanding the natural basis for the uniqueness of the individual has long been an objective The possibilities have been analyzed by Julian Huxley by A E Needham by Roger Williams and by others With his books Biochemical Individuality and Free and Unequal Roger Williams has done as much as

anyone to focus attention on this complex of questions Although scheduled to participate in this program Roger Williams was unable to attend due to illness He asked however that a quotation be included in the proceedings This quotation from Chraka is presented early in this book While metabolic bases for individuality have received a considerable investigation and discussion by Williams and others the case for underlying determinants and derivative consequences have not been examined as fully The specificities that abound in our living world can be traced to the manner in which molecules fit with each other While numerous studies having other objectives can be cited in support of molecularly based specificities a few of the leaders in the development of the understanding of physical aspects of biological information present here some of their latest inferences Several of the participants discuss some of the consequences at higher levels Examination of the fascinating cases of reunited identical twins are seen as providing a capstone to the hierarchical treatment

Alkaline Phosphatase Robert B. McComb, George N. Bowers, Jr., Solomon Posen, 2013-11-11 There can be no doubt that alkaline phosphatase is one of the most extensively investigated of all enzymes This has resulted from the ubiquity of its distribution and from the ease and sensitivity with which its activity can be measured Unfortunately these wide ranging but often superficial experimental studies have been followed up by intensive and systematic investigations in only a few limited areas of the biochemistry and chemical pathology of alkaline phosphatase The result has been the accumulation of a scientific literature of intimidating proportions and the inevitable rediscovery of already known facts about the enzyme Scientists are taught early in their careers that in the words of Sir John Herschel Hasty generalization is the bane of science Nevertheless moments arrive in all spheres of scientific activity when generalization becomes essential to codify and to select from the mass of data already accumulated and to provide starting points for new developments and new lines of investigation This is especially true in a field such as alkaline phosphatase research in which very real dangers exist that the seeds of fundamental understanding will be lost amidst an unexamined harvest of empirical observations The history of the study of alkaline phosphatase provides several instances when valuable generalizations have emerged Occasionally the conclusions drawn on the basis of available evidence were wrong more frequently they have stood the test of further experimentation and always they have provided new insights into the nature and proper ties of this enzyme

Introduction to Bioinformatics using Action Labs Jean-Louis Lassez, Ryan Rossi, Stephen Sheel, 2016-02-24 Bioinformatics is the application of computational techniques and tools to analyze and manage biological data This book provides an introduction to bioinformatics through the use of Action Labs These labs allow students to get experience using real data and tools to solve difficult problems The book comes with supplementary software tools and papers The labs use data from Breast Cancer Liver Disease Diabetes SARS HIV Extinct Organisms and many others The book has been written for first or second year computer science mathematics and biology students The supplementary software and papers can be found at <http://www.kibazen.com/bin>

Reviewing the Living Environment Biology Rick Hallman, Woody, 2004-04-19 This review book provides a complete review of a one year biology

course that meets the NYS Living Environment Core Curriculum Includes four recent Regents exams Development of Sea Urchins, Ascidians, and Other Invertebrate Deuterostomes: Experimental Approaches ,2004-11-16 This book provides a practical guide to experimental methods for studying the development invertebrate deuterostomes as animal model systems The chapters provide detailed experimental protocols that cover a broad range of topics in modern experimental methods Topics covered range from rearing embryos to the care of adult animals while also presenting the basic experimental methods including light and electron microscopy used to study gene expression transgenics reverse genetics and genomic approaches Covers a wide range of methods from classical embryology through modern genomics Discusses animals related to vertebrates providing a valuable evolutionary perspective Includes a practical guide to the use of sea urchins in the teaching laboratory

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