

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 Concept Answers

Sabine Zange



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

Exploring Biology in the Laboratory: Core Concepts Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today

Mapping Science Arno Henrik Chrispeels, 2001

STEM Education: Concepts, Methodologies, Tools, and

Applications Management Association, Information Resources, 2014-12-31 This reference brings together an impressive array of research on the development of Science Technology Engineering and Mathematics curricula at all educational levels Provided by publisher

Chemistry for Higher Education Jan H. Apotheker, 2018-08-21 Current publication gives hands on

recommendations how to develop a successful course in either the bachelor or the master of chemistry The author discusses different ways of course building such as lectures workshops seminars and labs explains how to identify potential

improvements for the next run of the class and elucidates the tools to create an efficient learning environment that helps students to understand the nature of chemistry

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

Berkeley Lab Research Review, 2000

Impacts of Teacher

Evaluation and Professional Development on Student Outcomes Edward Crowe, Rena F. Subotnik, 2012-07-01 This

particular case study is designed to explore the extent to which a teacher evaluation system is effective. It also addresses the challenge of measuring student achievement gains when the students in question are already at the high end of the scale, a different yet important problem in an era when many concentrate on low hanging fruit or students on the bubble between failure and marginal performance. By presenting a realworld case, various research methods for studying issues raised by the case, and the interchange among scholars engaged in this effort, this volume will allow educational policymakers and practitioners to decide if a proposed approach is compelling and relevant for their settings. Concurrently, a comparison of various research methods addressing a real school based problem provides an important learning tool for the research community and for those who study and make policy. We also believe that the case study and the research designs will be useful for those with responsibility for framing and funding a research agenda in education that utilizes strong research designs applied to topics that matter to student outcomes at all levels of the U S education system and at all levels of pupil performance. And finally, we hope that doctoral programs that seek to prepare the next generation of education researchers will find our approach helpful in their work.

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 accompanying materials; a reading level; and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs, chapters on books about science and teaching, directories and guides to science trade books, and

periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents **Jonas Salk** Charlotte DeCroes

Jacobs, 2015-04-21 When a waiting world learned on April 12 1955 that Jonas Salk had successfully created a vaccine to prevent poliomyelitis he became a hero overnight Born in a New York tenement humble in manner Salk had all the makings of a twentieth century icon a knight in a white coat In the wake of his achievement he received a staggering number of awards and honors for years his name ranked with Gandhi and Churchill on lists of the most revered people And yet the one group whose adulation he craved the scientific community remained ominously silent The worst tragedy that could have befallen me was my success Salk later said I knew right away that I was through cast out In the first complete biography of Jonas Salk Charlotte DeCroes Jacobs unravels Salk's story to reveal an unconventional scientist and a misunderstood and vulnerable man Despite his incredible success in developing the polio vaccine Salk was ostracized by his fellow scientists who accused him of failing to give proper credit to other researchers and scorned his taste for media attention Even before success catapulted him into the limelight Salk was an inscrutable man disliked by many of his peers Driven by an intense desire to aid mankind he was initially oblivious and eventually resigned to the personal cost as well as the costs suffered by his family and friends And yet Salk remained in the eyes of the public an adored hero Based on hundreds of personal interviews and unprecedented access to Salk's sealed archives Jacobs biography offers the most complete picture of this complicated figure Salk's story has never been fully told until now his role in preventing polio has overshadowed his part in co developing the first influenza vaccine his effort to meld the sciences and humanities in the magnificent Salk Institute and his pioneering work on AIDS A vivid and intimate portrait this will become the standard work on the remarkable life of Jonas Salk

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