

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 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

Protein Synthesis Lab Concept Answers

Edward Crowe, Rena F. Subotnik



Protein Synthesis Lab Concept Answers:

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

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

The Software Encyclopedia, 1986 *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

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

The Testosterone Advantage Plan Lou Schuler, Jeff Volek, Adam Campbell, Michael Mejia, 2002

Agricultural Research, 1989

Shaping Psychology Tomasz Witkowski, 2020-11-03

Shaping Psychology is a unique collection of in depth conversations with a selection of the most influential psychologists working today conducted at the end of a decade that shook psychological science They provide insights into the controversies at the heart of contemporary psychology revealing a clash of visions of what psychological science is all about and what its future holds They are candid on the crisis in psychology and explore its causes consequences and how to overcome it They also discuss challenges in the field their careers and the experiences that shaped their worldview Those interviewed include pioneers who have shaped psychology as we know it today and who represent a wide range of specializations from research to mental health practice mainstream psychology to critical psychology and neuroscience to the Open Science movement Elizabeth F Loftus Stanford University USA Jerome Kagan Harvard University USA Michael I Posner University of Oregon USA Scott O Lilienfeld Emory University USA Robert J Sternberg Cornell University USA Robert Plomin King s College London UK Susan J Blackmore University of Plymouth UK Joseph E LeDoux New York University USA Noam Chomsky Massachusetts Institute of Technology USA Roy F Baumeister University of Queensland Australia Erica Burman University of Manchester UK Brian A Nosek University of Virginia USA Vikram H Patel Harvard Medical School USA Daniel Kahneman Princeton University USA Carol A Tavis independent academic USA

Modules McDougal Littell Incorporated, 2005

Fundamentals of Microbiology Jeffrey C. Pommerville, 2014-12 Ideal for health science and nursing students

Fundamentals of Microbiology Body Systems Edition Third Edition retains the engaging student friendly style and active learning approach for which award winning author and educator Jeffrey Pommerville is known Highly suitable for non science majors the fully revised and updated third edition of this bestselling text contains new pedagogical elements and an established learning design format that improves comprehension and retention and makes learning more enjoyable Unlike other texts in the field Fundamentals of Microbiology Body Systems Edition takes a global perspective on microbiology and infectious disease and supports students in self evaluation and concept absorption Furthermore it includes real life examples to help students understand the significance of a concept and its application in today s world whether to their local community or beyond New information pertinent to nursing and health sciences has been added while many figures and tables have been updated revised and or reorganized for clarity Comprehensive yet accessible the Third Edition is an essential text for non science majors in health science and nursing programs taking an introductory microbiology course

Provided by publisher Biochemistry John T. Tansey, 2020-07-15 Biochemistry An Integrative Approach with Expanded Topics is addressed to premed biochemistry and life science majors taking a two semester biochemistry course This version includes all 25 chapters offering a holistic approach to learning biochemistry An integrated skill focused approach to the study of biochemistry and metabolism Biochemistry integrates subjects of interest to undergraduates majoring in premed biochemistry life science and beyond while preserving a chemical perspective Respected biochemistry educator John Tansey takes a unique approach to the subject matter emphasizing problem solving and critical thinking over rote memorization Key concepts such as metabolism are introduced and then revisited and cross referenced throughout the text to establish pattern recognition and help students commit their new knowledge to long term memory As part of WileyPLUS Biochemistry includes access to video walkthroughs of worked problems interactive elements and expanded end of chapter problems with a wide range of subject matter and difficulty Students will have access to both qualitative and quantitative worked problems and videos model the biochemical reasoning students will need to master This approach helps students learn to analyze data and make critical assessments of experiments key skills for success across scientific disciplines Introduces students in scientific majors to the basics of biochemistry and metabolism Integrates and synthesizes topics throughout the text allowing students to learn through repetition and pattern recognition Emphasizes problem solving and reasoning skills essential to life sciences including data analysis and research assessment Provides access to video walkthroughs of worked problems interactive features and additional study material through WileyPLUS This volume covers DNA RNA gene regulation synthetic proteins omics plant biochemistry and more With this text students studying a range of disciplines are empowered to develop a lasting foundation in biochemistry and metabolism that will serve them as they advance through their careers

Biology Kenneth Raymond Miller, Prentice Hall (School Division), 1999-02 Army Research and Development, 1971 Army RD & A Bulletin, 1971

Sport Nutrition Asker Jeukendrup, Michael Gleeson, 2024-06-05 For students planning to work in a sport or exercise related career it is crucial to understand the essential role nutrition plays in health adaptations to physical activity and exercise weight maintenance and sports and exercise performance Sport Nutrition Fourth Edition With HK Propel Access presents the principles and rationale for current nutrition guidelines for athletes and provides an in depth look at the science behind sport nutrition Using a physiological basis Sport Nutrition aims to explain the role of nutrition in enhancing exercise performance It moves from general principles of nutrition and nutrient requirements to estimating and fulfilling energy needs with the appropriate combinations of macronutrients and micronutrients Supplements are addressed from a scientific standpoint followed by the influence of nutrition on training adaptations body composition weight management and eating disorders Information on personalized nutrition covers periodized nutrition sex differences and special populations young athletes older athletes and diabetic athletes and offers practical examples from specific sports The fourth edition is greatly enhanced with a new full color format showcasing 40 new infographics and 50 additional figures and

illustrations These visual elements provide a more engaging experience allowing students to fully comprehend important concepts methods and research findings This edition features online access to references appendixes and glossary terms and definitions providing useful explanations and at a glance information New topics in this edition include the following How to recognize good versus bad information about sport nutrition The role of gut microbiota and how this microbiome is affected by diet and exercise The function of macronutrients and micronutrients in relation to exercise performance and recovery Guidelines to limit gastrointestinal problems during exercise Electrolyte replacement during exercise in the heat The effects of exercise and nutrition on immune function and health outcomes as learned from the COVID 19 pandemic Low energy availability and the causes and consequences of relative energy deficiency in sport REDs More than a simple prescription of recommendations Sport Nutrition Fourth Edition offers a systematic presentation of the science supporting current nutrition guidelines It is an ideal book to provide a comprehensive understanding of nutrition as it relates to sport exercise performance training and recovery Note A code for accessing HKPropel is included with this ebook

Three Roses Michael S. Hudecki, 2015-12-11 Three Roses Living with Muscular Dystrophy and Marrying the Ideal Woman introduces a man who knew from his early childhood that he would face life with the ever present reality of muscular dystrophy Despite the challenges this condition presented him Michael S Hudecki achieved both professional success and personal contentment His memoir relates the circumstances of his childhood follows him through his academic years and relates how while pursuing his PhD in biology at the University of Buffalo he came to know and to love the woman of his dreams Rajmohini Sebastian a Fulbright scholar from India Despite three years of living apart following their graduation they reunited at John F Kennedy International Airport Meeting her after she cleared customs checks he presented her with a dozen red roses and three yellow roses one for each year they spent apart They married soon after that Three Roses opens a window into the life of someone who faces life with courage and faith who makes a valued and lasting contribution to the worlds body of knowledge concerning muscular dystrophy and recognizes and follows the beckoning of his heart

Conditioned Taste Aversion Steve Reilly, Todd R. Schachtman, 2009 Conditioned taste aversion is arguably the most important learning process that humans and animals possess because it prevents the repeated self administration of toxic food It has not only profoundly influenced the content and direction of learning theory but also has important human nutritional and clinical significance In addition to its direct relevance to food selection dietary habits and eating disorders it is significant for certain clinical populations that develop it as a consequence of their treatment The study of conditioned taste aversions has invigorated new theory and research on drug conditioning and addictions as well as on conditioned immunity There has also been a substantial amount of recent research exploring the neural substrates of conditioned taste aversion its neuroanatomy pharmacology and role in the molecular and cellular basis of plasticity This book provides a definitive perspective on the current state of research theory and clinical applications for conditioned taste aversion effects and methodology In each chapter a leading scholar in the field

presents a broad range of studies along with current findings on the topic highlighting both the major theoretical landmarks and the significant new perspectives It will be an important resource for both professional and student researchers who study conditioning learning plasticity eating disorders and dietary and ingestive behaviors in neuroscience cognitive neuroscience cognitive psychology developmental psychology clinical psychology psychopharmacology and medicine

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