Lab: Building Proteins from RNA
Student Guide

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Prelab Information

Purpose	Explore the molecular process of building proteins from the information carried by RNA using a laboratory procedure.
Time	Approximately 45 minutes
Question	How are proteins built using the information provided by a molecule of RNA?
Prediction	RNA determines the sequence of amino acids in proteins and polypeptides by a two-step process: transcription of DNA produces mRNA in the nucleus, then translation of the mRNA to tRNA takes place at the ribosome in the cytoplasm.

Lab Procedure

Materials:

- helicase
- human cell
- tRNA sequence
- protein structure chart

Step 1: Transcribe the Information in DNA to mRNA

(The animation will zoom from the human cell to the nucleus to the DNA strand.)

a) Find and click the arrow that represents the direction in which the mRNA is built. Like DNA, mRNA is always built from the 5' direction to the 3'.

b) Which RNA nucleotide can pair with the thymine (T) at the beginning of the strand? Drag it into the DNA antisense strand to make a pair.

c) Complete nine (9) additional base pairs. Remember, there is no thymine (T) in RNA. The adenine (A) in the DNA needs to pair with uracil (U).

d) After your mRNA sequence record is complete, click "Leave the Nucleus" to send the mRNA to the ribosome in the cell's cytoplasm, where production of proteins will take place.

Step 2: Locate Codons

(You will continue to read mRNA from the 5' end toward the 3' end.)

a) A codon is a sequence of three bases that indicates a unit of information in the RNA. A gene is a series of codons that results in the production of a protein. Identify the codons of the mRNA shown. The start codon for a gene is AUG, so start by dragging the blue start codon box over the AUG on the strand. (The start codon is already recorded on the data table.)

b) Use the gray codon box to highlight additional codons three bases at a time. When you reach a stop codon (either UAA, UAG, or UGA) you will need to use the pink stop codon box. As you form codons, record them in Table 1.

Step 3: Translate mRNA

tRNA is composed of short sections of RNA that bond to the codons in mRNA. The screen shows a pool of tRNA anticodons, which carry the amino acids to the ribosome and attach to the mRNA when its sequence of base pairs is complementary with the mRNA in the ribosome.

a) For each codon, you will find the correct tRNA anticodon and drag it to the ribosome. Start with the AUG codon in the ribosome. Find and drag its match, the UAC anticodon, to it. Record this

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Wards Protein Synthesis Lab Guide

Patricia J. Donnelly,George A. Wistreich

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Biology ,1996 *Aminoglycoside Antibiotics A Guide To Therapy* William G. Barnes,Glenn R. Hodges,2019-06-04 First Published in 1984 this book offers a full comprehensive guide into the applications of Aminoglycoside Antibiotics in therapy Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for Students of Medicine and other practitioners in their respective fields **Research Awards Index** ,1984 **Advances in Mutagenesis Research** Günter Obe,2012-12-06 The new field of applied genetic research genetic toxicology and mutation research investigates the mutagenicity and cancerogenicity of chemicals and other agents Permanent changes in genes and chromosomes or genome mutations can be induced by a plethora of agents including ionizing and nonionizing radiations chemicals and viruses Mutagenesis research has two aims 1 to understand the molecular mechanisms leading to mutations and 2 to prevent a thoughtless introduction of mutagenic agents into our environment Both aspects namely basic and applied will be treated in the new series Advances in Mutagenesis Research *NSF Factbook* Marquis Academic Media,1975 Cumulated Index Medicus ,1972 **Library Journal** ,1971-04 *The International Conference on Advanced Machine Learning Technologies and Applications (AMLTA2019)* Aboul Ella Hassanien,Ahmad Taher Azar,Tarek Gaber,Roheet Bhatnagar,Mohamed F. Tolba,2019-03-16 This book presents the peer reviewed proceedings of the 4th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2019 held in Cairo Egypt on March 28 30 2019 and organized by the Scientific Research Group in Egypt SRGE The papers cover the latest research on machine learning deep learning biomedical engineering control and chaotic systems text mining summarization and language identification machine learning in image processing renewable energy cyber security and intelligence swarms and optimization Clinical and Laboratory Medicine Textbook Marcello Ciaccio,2024-02-21 This textbook describes several diseases and clinical conditions from physiopathological mechanisms to main clinical pictures highlighting the importance of laboratory medicine with the aim to provide the necessary tools for guiding correct laboratory findings interpretation Indeed it is now widely recognized that laboratory medicine has a pivotal role in clinical medicine significantly influencing clinical decisions Thus it is crucial to understand and use laboratory data appropriately This book has the great advantage of describing each topic exhaustively in order to facilitate its understanding Specifically it describes both diseases with a high incidence in the population such as Diabetes Mellitus Cardiovascular Diseases Dyslipidemias and Autoimmune Diseases as well as rare diseases such as Hereditary Metabolic Diseases In addition unusual topics are treated such as Clinical Biochemistry of the Mind as well as hot topics such as Biological Drugs Biobanks Health Technology Assessment and Omics Sciences Finally the book includes a chapter on the new health emergency the SARS CoV 2 pandemic Two appendices are provided at the end of the book a table summarizing the reference range and decisional cut off for the main laboratory parameters and instructions on performing a venous blood sample The book will be an invaluable tool for medical and

biomedical students as well as for practitioners **Summaries of Projects Completed in Fiscal Year ...** ,1978

Summaries of Projects Completed National Science Foundation (U.S.), *Summaries of Projects Completed in Fiscal Year ...* National Science Foundation (U.S.),1978 **Basic Biotechniques for Bioprocess and Bioentrepreneurship** Arvind Kumar Bhatt,Ravi Kant Bhatia,Tek Chand Bhalla,2023-02-03 Basic Biotechniques for Bioprocess and Bioentrepreneurship deals with the entire field of industrial biotechnology starting from the basic laboratory techniques to scale up process development demonstration and finally its commercialization The book compiles currently scattered materials on this topic and updates this information based on practical experience and requirements The book will be an ideal source for new entrepreneurs who wish to start their own commercial units Offers guidance for readers researchers start ups entrepreneurs on how to develop new microbiological and biotechnical processes Focuses on basic knowledge and possible solutions to the practical difficulties at all levels in one place through understanding of basic techniques in lab during bioprocess development commercialization technology transfer marketing and others which is presently not available in the field Provides multifaceted coverage with industry insights from experienced practitioners and leaders in the field Gives possible best solutions to the practical difficulties at all levels i e lab scaleup and commercial stage Addresses ethical and other regulatory issues Index Medicus ,2001 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings

Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections Patricia J. Donnelly,George A. Wistreich,1993

The Laboratory Rat Henry J. Baker,J. Russell Lindsey,Steven H. Wesibroth,2013-10-02 The Laboratory Rat Volume I Biology and Diseases focuses on the use of rats in specific areas of research ranging from dental research to toxicology The first part of this book retraces the biomedical history of early events and personalities involved in the establishment of rats as a leading laboratory animal The taxonomy genetics and inbred strains of rats are also elaborated The next chapters illustrate the hematology clinical biochemistry and anatomical and physiological features of the laboratory rat This text concludes with a description of infectious diseases that may be contracted from laboratory and or wild rats This volume is a good source for commercial and institutional organizations involved in producing rats for research use specialists in laboratory animal animal care and research technicians as well as students in graduate and professional curricula **Magill's Medical Guide** Anne Chang,2005 Thrombolytic therapy TPA Thrombosis thrombus Thumb sucking Thyroid disorders Thyroid gland Thyroidectomy Tics Toilet training Tonsillectomy adenoid removal Tonsillitis Tooth extraction Toothache Torticollis Touch Tourette s syndrome Toxemia Toxic shock syndrome Toxicology Toxoplasmosis Tracheostomy Trachoma Transfusion Transient ischemic attacks TIAs Transplantation Tremors Trichinosis Trichomoniasis Tropical medicine Tubal ligation Tuberculosis Tumor removal Tumors Turner syndrome Typhoid fever typhus Ulcer surgery Ulcers Ultrasonography Umbilical cord Unconsciousness Upper extremities Urethritis Urinalysis Urinary disorders Urinary system Urology Urology pediatric Vagotomy Varicose vein removal Varicose veins Vascular medicine Vascular system Vasectomy Venous insufficiency

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