

### Prelab Information

<b>Purpose</b>	Explore the molecular process of building proteins from the information carried by RNA using a laboratory procedure.
<b>Time</b>	Approximately 45 minutes
<b>Question</b>	How are proteins built using the information provided by a molecule of RNA?
<b>Prediction</b>	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.)

- 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'.
- 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.
- 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).
- 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 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.)
- 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.

- 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

# Wards Protein Synthesis Lab Guide

**M Lipman**



## **Wards Protein Synthesis Lab Guide:**

**Biology** ,1996      **Research Awards Index** ,1989      Manual of Veterinary Transfusion Medicine and Blood Banking

Kenichiro Yagi,Marie Holowaychuk,2016-09-06 Das Manual of Veterinary Transfusion Medicine and Blood Banking bietet mit seinem praxisorientierten Ansatz jedem Veterinärmediziner evidenzbasierte Leitlinien für die klinische Praxis. Liefert evidenzbasierte Informationen zu Verfahren in der Transfusionsmedizin und bei Blutbanken. Umfasst Kapitel zum Screening von Transfusionsempfängern zur Auswahl von Spendern zur Blutentnahme und Lagerung sowie darüber wie die Nachfrage nach Blut erfüllt wird. Beinhaltet nützliche Transfusions- und Blutbankprotokolle die für die klinische Praxis relevant sind. Ausgewogene Inhalte aus Sicht von Veterinärmediziner und Veterinärtechniker. Mit Informationen zu Groß- und Kleintieren sowie Exoten.

**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.

*Prospects and Applications for Plant-Associated Microbes, A laboratory manual* Seppo Sorvari,Anna Maria Pirttilä,2014-12-15 Research on the microbial colonization of the aerial and subterranean tissues of plants has shown an extensive scale of interactions between the hosts and a range of microbes including bacteria and fungi. Intercellular spaces vascular systems and even single cells can be inhabited by these endophytic microbes. Of the bacterial endophytes only a small percentage is harmful to the plant most are neutral opportunistic or beneficial. These plant based bacteria can have various important functions throughout the life cycle of the plant some promote plant growth and development others protect the plant from diseases. This ability to be able to protect plants from diseases has catalyzed numerous laboratories to search for new bacteria that could be utilized instead of the traditional plant protective agents. Because two or more interacting organisms are involved research and the eventual application of suitable bio controlling microbes are challenging and often require specific skills and equipment. The purpose of this book is to provide a

comprehensive review for those who are interested in the research and biotechnological applications of plant associated bacteria It also provides a compilation of current work conducted on plant bacteria interactions NSF Factbook Marquis Academic Media,1975 Cumulated Index Medicus ,1972 **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* *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 *Library Journal* ,1971-04 *Index Medicus* ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Manual of Microbiologic Monitoring of Laboratory Animals** Kim Waggle,1994-07 An overview of the main infectious agents and diseases of mice and rats Indicates the methods used in testing for them Includes 42 agents for monitoring Also deals with microbiologic monitoring of immunodeficient animals Includes viruses bacteria mycoplasmas and fungi and parasites Each agent s description includes classification and morphology cultivation strains characteristics of infection geographic distribution means of spread morbidity and mortality control prevention and test procedures Extensive bibliography with each agent *A Manual of Laboratory and Diagnostic Tests* Frances Talaska Fischbach,Marshall Barnett Dunning,2009 Now in its Eighth Edition this leading comprehensive manual helps nurses deliver safe effective and informed care for patients undergoing diagnostic tests and procedures The book covers a broad range of laboratory and diagnostic tests and studies that are delivered to varied patient populations in varied settings Tests are grouped according to specimen and function test type e g blood urine stool cerebrospinal fluid etc Each test is described in detail with step by step guidance on correct procedure tips for accurate interpretation and instructions for patient preparation and aftercare Clinical Alerts highlight critical safety information *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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web in astronomical terms the start of summer can be defined very precisely it begins on the summer solstice which occurs on june 20 or 21 in the northern hemisphere and on december 21 or 22 in the southern hemisphere on the summer solstice in the northern hemisphere the path of the sun in the sky hits its northernmost point

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