

LAB _____ HOW ARE PROTEINS MADE IN CELLS

“DNA gets all the glory, but proteins do all the work!”

DNA is the molecule that stores the genetic information in your cells. That information is coded in the four bases of DNA: C (cytosine), G (guanine), A (adenine), and T (thymine). 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 your cells.

DNA is organized in sections called genes. Genes code for proteins, and it is proteins that do all the work in the cell. They function as structural proteins — serving as the building blocks of cells and bodies. And they function as enzymes — directing all the chemical reactions in living organisms.

Proteins are made in the cytoplasm by ribosomes. So the information from DNA must be transferred from the nucleus to the cytoplasm. Each gene on the DNA is read and codes directly for a messenger RNA (mRNA) molecules. The mRNA is made by matching its complementary bases — C, G, A, and U (uracil) — to the DNA bases. The mRNA molecule then leaves the nucleus and carries the code for making the protein from the DNA gene to the ribosome in the cytoplasm.

The ribosome reads the sequence of bases on the mRNA in sets of three — the triplet codons. Another type of RNA — transfer 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 (H) to right (H). 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

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Huangqi Zhang



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Cold Spring Harbor Symposia on Quantitative Biology Cold Spring Harbor Laboratory of Quantitative Biology, 1933

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Structural Aspects Of Protein Synthesis Anders Liljas, 2004-09-16 This comprehensive and highly illustrated book provides a basic and up to date summary of translation on bacterial ribosomes with emphasis on the structural insights. It is an attempt to present the ribosome and its functional activities in a coherent manner. Two types of illustrations are used to describe the translation field: simplified black and white illustrations to depict aspects of translation and color plates to give correct structural representations. The book presents essentially all aspects of the translation system focusing on the relation between structure and function. Upper level undergraduates and graduate students with an interest in protein synthesis will find this lecture notes volume invaluable. The book is also an essential source of information for researchers who want to get an overview of translation.

Cell-free Protein Synthesis Alexander S. Spirin, James R. Swartz, 2007-12-03 With its detailed description of membrane protein expression, high throughput and genomic scale expression studies both on the analytical and the preparative scale, this book covers the latest advances in the field. The step by step protocols and practical examples given for each method constitute practical advice for beginners and experts alike.

The Mechanism of

Protein Synthesis ,1969 **Cell-Free Protein Expression** W. Antoni Kudlicki,2007-11-27 Following its inception in the 1950s cell free protein synthesis made a tremendous impact on the basic life sciences The use of cell free systems was key to understanding molecular mechanisms underlying one of the most complicated processes found in nature protein translation Since this time aggressive cutting edge research and stiff commercial competition have driven the development of a variety of systems with increased productivity improved protein quality and relatively low production costs As a result technology has generated myriad applications that have enabled advances in fields as diverse as systems biology structural biology and drug discovery Cell Free Protein Expression describes and expands upon many of these applications The volume has been divided into six main sections In the first section many of the most popular sources of cell free lysates are introduced The second section focuses on extraordinary advances made in the Escherichia coli based systems that have enabled reconstitution of the entire translational process incorporation of post translational modifications yield increase and production of functional membrane proteins This progress extends the usefulness of cell free systems into structural biology applications described in the third section and high content platforms like protein microarrays discussed in the fourth section The final two sections cover the use of cell free protein expression technologies in the rational design and directed evolution of proteins within the scientific community **Protein Synthesis** Abraham K. Abraham,Thor S. Eikhom,Ian F. Pryme,2012-12-06 During the past decade we have witnessed several major discoveries in the area of protein synthesis and post translational modification of protein molecules In this volume many of the latest research developments in these fields are reported by the distinguished international group of scientists who presented their state of the art results at the 13th Linderström Lang Conference held at Gøteborg Norway June 14-18 1983 We feel that the presentation here of so wide a variety of articles on both the molecular and the cellular aspects of protein synthesis will be of considerable value to many scientists working in the area who were unable to attend as well as to many who are active in related areas In addition to the research papers the contents of the six scientific sessions held during the conference have been summarized by the respective session chairmen These individual summaries provide insightful syntheses of all the recent progress in each field identify which current problems remain of special interest and suggest what the future may hold in the several areas of protein synthesis research covered Though this volume obviously cannot provide a complete survey of all important ongoing research on the molecular and cellular biology of translational and post translational events we are confident that it will facilitate a much better understanding of many important contemporary problems in research on protein synthesis including cell differentiation translational accuracy protein modification intracellular transport and membrane turnover Protein synthesis ,1971 The Eureka Science Corporation presents information on protein synthesis as part of I Can Do That which offers science facts for children In protein synthesis ribosomes use a messenger RNA to determine which amino acid belongs where A specific group of amino acids is then joined together to form a protein **PROTEIN SYNTHESIS** ,2017

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