

## POGIL - Gene Expression: Transcription

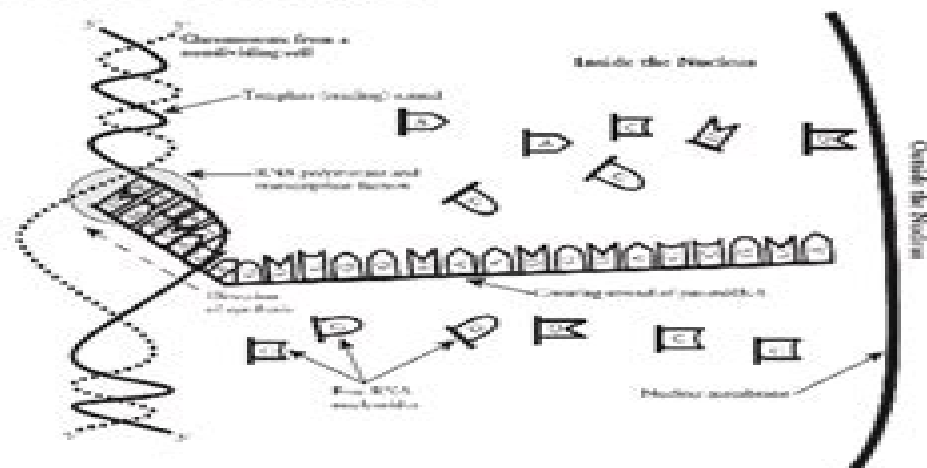
*How is mRNA synthesized and what message does it carry?*

### Why?

Deoxyribonucleic DNA is often referred to as a genetic blueprint. In the same way that blueprints contain the instructions for construction of a building, the DNA found inside the nuclei of cells contains the instructions for assembling a living organism. The DNA blueprint carries its instructions in the form of genes. In most cases the genes direct the production of a polypeptide, from which other more complex proteins, such as enzymes or hormones, may be constructed. These polypeptides and other molecules run the organism's metabolism and, in multicellular

organisms, dictate what each cell's job is. So, what is the language of these instructions and how are they read and decoded by the cellular organelles? This activity will focus on the decoding of genes in eukaryotes.

### Model 1 - Transcription



#### 1. Consider the eukaryotic cell in Model 1.

a. Where in the cell is the DNA found?

b. Where in the cell does transcription take place?

#### 2. Refer to Model 1.

a. What polymer is synthesized during transcription?

b. What monomers are used to construct this polymer and where are they found?

3. According to Model 1, what enzyme is required for transcription? (*Hint: Think about how enzymes are named. What ending is used for enzyme names?*)

#### 4. Refer to Model 1.

a. What is the base-pair rule for a DNA strand matching an RNA strand?

b. Compare this base-pair rule with that of two DNA strands.

#### 5. Which strand of the DNA contains the "blueprint" for the pre-mRNA?

#### 6. Consider Model 1.

a. In which direction is the DNA molecule read? \_\_\_\_\_

b. The DNA strand and pre-mRNA strand are anti-parallel. With this in mind label the 3' and 5' ends of the pre-mRNA strand in Model 1.

c. In which direction is the pre-mRNA molecule constructed? \_\_\_\_\_

7. Before printing presses were available, books had to be transcribed in order to share the information

# Gene Expression Translation Pogil Answers

**VM Jensen**



## Gene Expression Translation Pogil Answers:

Gene Expression, Translation and the Behavior of Proteins Lester Goldstein, 1980      **Translational Control of Gene Expression** Nahum Sonenberg, John W. B. Hershey, Michael B. Mathews, 2001 Since the 1996 publication of *Translational Control* there has been fresh interest in protein synthesis and recognition of the key role of translation control mechanisms in regulating gene expression This new monograph updates and expands the scope of the earlier book but it also takes a fresh look at the field In a new format the first eight chapters provide broad overviews while each of the additional twenty eight has a focus on a research topic of more specific interest The result is a thoroughly up to date account of initiation elongation and termination of translation control mechanisms in development in response to extracellular stimuli and the effects on the translation machinery of virus infection and disease This book is essential reading for students entering the field and an invaluable resource for investigators of gene expression and its control      *Translational Regulation of Gene Expression* J. Ilan, 2013-11-11      *Translational Regulation of Gene Expression 2* J. Ilan, 2012-12-06 This book which results from the dramatic increase in interest in the control mechanism employed in gene expression and the importance of the regulated proteins presents new information not covered in *Translational Regulation of Gene Expression* which was published in 1987 It is not a revision of the earlier book but rather an extension of that volume with special emphasis on mechanisms As the reader will discover there is enormous diversity in the systems employing genes for translational regulation in order to regulate the appearance of the final product the protein Thus we find that important proteins such as protooncogenes growth factors stress proteins cytokines lymphokines iron storage and iron uptake proteins and a panorama of prokaryotic proteins as well as eukaryotic viral proteins are translationally regulated Since for some gene products the degree of control is greater by a few orders of magnitude than their transcription we can state that for these genes at least the expression is translationally controlled Translational regulation of gene expression in eukaryotes has emerged in the last few years as a major research field The present book describes mechanisms of translational regulation in bacteria yeast and eukaryotic viruses as well as in eukaryotic genes In this book we try to provide in depth coverage by including important examples from each group rather than systematically including all additional systems not described in the previous volume      *Fidelity and Quality Control in Gene Expression*, 2012-01-25 The goal of this volume is to provide a comprehensive mechanistic and quantitative view of the processes that mediate or influence the quality control in translation In addition to discussing processes with direct contribution to translation fidelity such as aminoacylation of tRNAs and translation elongation itself special attention is given to other processes with impact on quality control detection and elimination of defective mRNAs recycling and translation re initiation mRNA editing and translational recoding through programmed frame shifting Provides a comprehensive mechanistic and quantitative view of the processes that mediate or influence the quality control in translation Special attention is given to other processes with impact on quality control detection and elimination of defective

mRNAs recycling and translation re initiation mRNA editing and translational recoding through programmed frame shifting

**Translation Factors in Control of Gene Expression** ,1997      **Mechanisms Coupling Steps in Gene Expression**

Jeanne Lynn Hsu,2008 Eukaryotic gene expression is a multi step process beginning with transcription of pre mRNA in the nucleus The pre mRNA undergoes several processing steps including 5 capping splicing and 3 end processing Finally spliced mRNA is exported to the cytoplasm for protein synthesis Although each of these steps requires distinct machineries they are physically and functionally coupled to one another This dissertation focuses on understanding the coupling among steps in gene expression from transcription to translation In Chapter 2 I describe the development of a mini nuclear extract method combined with RNA interference to determine the functions of specific proteins in the coupled RNAP II transcription splicing reaction The feasibility of this method was demonstrated by knocking down two model proteins the conserved splicing factors U1C and Slu7 My data indicate that the knockdown mini nuclear extract is a rapid and general in vitro strategy for determining the functions of specific proteins in gene expression as well as in other cellular processes In Chapter 3 I investigate the function of eIF4AIII a translation initiation like factor present in the nucleus My work showed that eIF4AIII is recruited to spliced mRNPs and is a component of the exon junction complex which is a protein complex recruited upstream of exon junctions during splicing In addition my work indicated that exon junction complexes are recruited to every exon junction present in the mRNA Finally eIF4AIII as well as a translation factor DDX3 co localizes with splicing factors in nuclear speckle domains Thus eIF4AIII and DDX3 may be recruited to mRNA during splicing in the nucleus and then function in translation related processes in the cytoplasm      **Inducible gene expression** ,1995      **Gene Expression** Fumiaki Uchiumi,2022

**Single-Molecule Studies of Gene Expression** Hamilton Courtney Hodges,2009 During the twentieth century researchers made significant advances in understanding the biochemical basis for gene expression In the twenty first century the development of single molecule manipulation techniques allowed researchers for the first time to directly observe the activities of gene expression in real time In particular experiments involving single molecule visualization and manipulation have revealed the processes of gene expression to be stochastic events governed by the physics of the nanoscale Our investigation of eukaryotic transcription using single molecule optical trapping techniques has shown that RNA polymerase II is a type of molecular motor that periodically disengages its DNA substrate and freely diffuses along it resulting in transient pausing events The behavior of the polymerase during these pauses has turned out to be critical for understanding how the polymerase transcribes through nucleosomes In this dissertation I report that the nucleosome behaves as a fluctuating barrier that locally but dramatically affects the transcription dynamics of the polymerase The polymerase rather than actively separating DNA from histones functions instead as a ratchet that rectifies nucleosomal fluctuations We also obtained direct evidence that transcription through a nucleosome involves transfer of the core histones behind the transcribing polymerase via a transient DNA loop This work has significantly addressed how the interplay

between polymerase dynamics and nucleosome fluctuations affects the dynamics of gene expression Using optical trapping techniques we also directly observed the process of translation by the E coli ribosome for the first time We observed that translation occurs through successive translocation and pause cycles The distribution of pause lengths indicated that at least two rate determining processes control each pause Additionally we have confirmed that each translocation step measures three bases one codon and observed that each step occurs in less than 0.1 s We also observed that translocation and RNA unwinding are strictly coupled ribosomal functions The emerging picture is that gene expression arises from the coordinated activities of specific macromolecular motors on their nucleic acid substrates Our observations of individual transcription and translation events support a detailed physical understanding of gene expression and its regulation

**From Gene to Protein: Information Transfer in Normal and Abnormal Cells** Thomas Russell, 2012-12-02 Miami Winter Symposia Volume 16 From Gene to Protein Information Transfer in Normal and Abnormal Cells presents the expression and processing of genetic information at the levels of both proteins and nucleic acids This book deals with the reassembly and mobilization of genetic information Organized into 105 chapters this volume begins with an overview of the discovery of the double helix and the search for the genetic code and the three dimensional structure of protein This text then examines the molecular mechanism by which steroid hormones regulate specific gene expression Other chapters consider the possible hazards inherent to hybrid DNA technology This book discusses as well the various problems of gene control in higher organisms which are illustrated by the changes that occur in the hemoglobin of mammals The final chapter deals with the characterization of adenovirus 2 mRNAs This book is a valuable resource for biochemists genetic engineers enzymologists scientists geneticists and molecular biologists

**Gene Transfer and Expression in Mammalian Cells** S.C. Makrides, 2003-10-24 This volume provides a broad state of the art coverage of diverse technical topics in gene expression in mammalian cells including the development of vectors for production of proteins in cultured cells in transgenic animals vaccination and gene therapy progress in methods for the transfer of genes into mammalian cells and the optimization and monitoring of gene expression advances in our understanding and manipulation of cellular biochemical pathways that have a quantitative and qualitative impact on mammalian gene expression and the large scale production and purification of proteins from cultured cells

**Applications of Chimeric Genes and Hybrid Proteins** Jeremy W. Thorner, Scott Emr, John Abelson, Jeremy Thorner, 2000 *Eukaryotic Translation Reinitiation* Jonathan Mangum, 2000 **Maximizing Gene Expression** Reznikoff William, Larry Gold, 1986 **Gene Expression** S. R. Kulshrestha, 2007 **Genetics of Translation** Mick Tuite, Marguerite Picard, Monique Bolotin-Fukuhara, 2011-12-06 Translation i.e protein synthesis studied from a genetic viewpoint is illustrated in this volume demonstrating how researchers are employing both classical genetic and recombinant DNA techniques in studying the components mechanisms regulation and accuracy of protein synthesis Both the prokaryotic especially Escherichia coli and eukaryotic especially Saccharomyces cerevisiae system are discussed presenting both new

information and the new genetic approaches available This book does not concentrate on one particular aspect of translation but provides an ideal overview of the genetic approaches for dissecting the translation process as well as the current rapid advances made in the field through the use of in vitro genetics

### **Long-range Control of Gene Expression**

Aghajan,Cavallaro,2008 Not Available      *Tissue Specific Gene Expression* Rainer Renkawitz,1989      *Regulation of Gene Expression* Gary H. Perdew,Jack P. Vanden Heuvel,Jeffrey M. Peters,2014-11-22 The use of molecular biology and biochemistry to study the regulation of gene expression has become a major feature of research in the biological sciences Many excellent books and reviews exist that examine the experimental methodology employed in specific areas of molecular biology and regulation of gene expression However we have noticed a lack of books especially textbooks that provide an overview of the rationale and general experimental approaches used to examine chemically or disease mediated alterations in gene expression in mammalian systems For example it has been difficult to find appropriate texts that examine specific experimental goals such as proving that an increased level of mRNA for a given gene is attributable to an increase in transcription rates *Regulation of Gene Expression Molecular Mechanisms* is intended to serve as either a textbook for graduate students or as a basic reference for laboratory personnel Indeed we are using this book to teach a graduate level class at The Pennsylvania State University For more details about this class please visit <http://moltox.cas.psu.edu> and select Courses The goal for our work is to provide an overview of the various methods and approaches to characterize possible mechanisms of gene regulation Further we have attempted to provide a framework for students to develop an understanding of how to determine the various mechanisms that lead to altered activity of a specific protein within a cell

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