

## 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 Transition Pogil

**J. Ilan**



## **Gene Expression Transition Pogil:**

*Gene Expression, Translation and the Behavior of Proteins* Lester Goldstein, 1980      **Translational Regulation of Gene Expression** J. Ilan, 2013-11-11      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 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 mechanism 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      Interaction of Translational and Transcriptional Controls in the Regulation of Gene Expression Marianne Grunberg-Manago, 2012-12-02 *Interaction of Translational and Transcriptional Controls in the Regulation of Gene Expression* presents the proceedings of the Fogarty International Conference on Translational Transcriptional Regulation of Gene Expression held at the National Institutes of Health in Bethesda Maryland on April 7-9 1982 Speakers discussed the molecular strategies at work during the modulation of gene expression following transcriptional initiation They also discussed recent developments in a number of key areas in which transcriptional and translational components interact Organized into five sections encompassing 36 chapters this volume explores both prokaryotic and eukaryotic systems as well

as structure function correlations It begins with an overview of translational transcriptional controls in prokaryotes the regulation of gene expression by transcription termination and RNA processing and the structure and expression of initiation factor genes It then examines the effect of the codon context on translational fidelity including mistranslation of messenger RNA protein synthesis for the construction of cell architecture regulation of initiation factor activity and translational regulation in cells This book is a valuable resource for Fogarty International Scholars who want to broaden their knowledge and contribute their expertise to the National Institutes of Health community 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 Translational Control Michael B. Mathews,1986 *Gene Expression* Brian Frederic Carl Clark,Hans Uffe Petersen,1984

**Post-transcriptional Control of Gene Expression** John E. G. McCarthy,Mick F. Tuite,1990 The last ten years have witnessed a remarkable increase in our awareness of the importance of events subsequent to transcriptional initiation in terms of the regulation and control of gene expression In particular the development of recombinant DNA techniques that began in the 1970s provided powerful new tools with which to study the molecular basis of control and regulation at all levels The resulting investigations revealed a diversity of post transcriptional mechanisms in both prokaryotes and eukaryotes Scientists working on translation mRNA stability transcriptional anti termination or other aspects of gene expression will often have met at specialist meetings for their own research area However only rarely do workers in different areas of post transcriptional control regulation have the opportunity to meet under one roof We therefore thought it was time to bring together leading representatives of most of the relevant areas in a small workshop intended to encourage interaction across the usual borders of research both in terms of the processes studied and with respect to the evolutionary division prokaryotes eukaryotes Given the breadth of topics covered and the restrictions in size imposed by the NATO workshop format it was an extraordinarily difficult task to choose the participants However we regarded this first attempt as an experiment on a small scale intended to explore the possibilities of a meeting of this kind Judging by the response of the participants during and after the workshop the effort had been worthwhile *Genetics of Translation* Mick F. Tuite,Marguerite Picard,Monique Bolotin-Fukuhara,1988 Translation In Eukaryotes Hans Trachsel,1991-07-24 This book presents an up to date review of

the mechanisms and regulation of translation in eukaryotes Topics covered include the basic biochemical reactions of translation initiation elongation and termination and the regulation of these reactions under different physiological conditions and in virus infected cells The book belongs on the shelf of everyone interested in translation in eukaryotes including students and researchers requiring comprehensive overviews of most aspects of translation and instructors who want to cover these topics at an advanced level *In Vitro Transcription and Translation Protocols* Guido Grandi, 2007-05-03 This book is a highly anticipated update of the previous edition It provides molecular biology laboratories with the most powerful techniques for exploiting in vitro transcription and translation systems It has been completely updated with new chapters and topics Inducible Gene Expression, Volume 1 P.A. Baeuerle, 1994-12-22 Cells have evolved multiple strategies to adapt the composition and quality of their protein equipment to needs imposed by changes in intra and extracellular conditions The appearance of proteins transmitting novel functional properties to cells can be controlled at a transcriptional posttranscriptional translational or posttranslational level Extensive research over the past 15 years has shown that transcriptional regulation is used as the predominant strategy to control the production of new proteins in response to extracellular stimuli At the level of gene transcription the initiation of mRNA synthesis is used most frequently to govern gene expression The key elements controlling transcription initiation in eukaryotes are activator proteins transactivators that bind in a sequence specific manner to short DNA sequences in the 5' of genes The activator binding sites are elements of larger proximity control units called promoters and enhancers which bind many distinct proteins These may synergize or negatively cooperate with the activators The *de novo* binding of an activator to DNA or if already bound to DNA its functional activation is what ultimately turns on a high level expression of genes The activity of transactivators is controlled by signalling pathways and in some cases transactivators actively participate in signal transduction by moving from the cytoplasm into the nucleus In this first volume of *Inducible Gene Expression* leading scientists in the field review six eukaryotic transactivators that allow cells to respond to various extracellular stimuli by the expression of new proteins

### **Control of Gene Expression Through Coupling of Transcription and Translation** Flint Ruben

Stevenson-Jones, 2017 *Gene Expression* G. S. Miglani, 2014 *GENE EXPRESSION* provides a comprehensive coverage on the structure organization evolution function expression transcription and translation and regulation of gene in bacteria viruses and eukaryotes The book will also deal with often ignored but very essential aspect of gene expression i.e. chromatin DNA and protein modifications that affect gene expression in bacteria viruses and eukaryotes Recent progresses have been discussed Nobel Prize winning work finds a special mention Various terms in the subject have been defined in context of the present day knowledge For this there is a separate section on glossary of important terms in the book Recent literature relevant to the subject matter has been cited and complete references are provided to the reader at the end of the subject matter In addition references for further reading have also been suggested Efforts will be made to pinpoint applications

implications of different discoveries in the area of molecular genetics Text is supported by well drawn figures and tables

**Gene Expression and Regulation** Mr. Rohit Manglik, 2024-06-24 Examines mechanisms of gene expression including transcription translation and epigenetic regulation with applications in molecular biology Programmed Alternative Reading of the Genetic Code Philip J. Farabaugh, 1997-03-15 2 The Translational Machinery 5 Translation Initiation in Prokaryotes 6 Translation Initiation in Eukaryotes 8 14 Translation Elongation Translation Termination in Prokaryotes 16 Translation Termination in Eukaryotes 17 Error Correction in Translation 18 A Structural Basis of Error Correction in Translation 20 Ribosome Editing A Failsafe Error Correction Mechanism 22 Conclusions 22 3 Errors During Elongation Can Cause Translational 29 Frameshifting Spontaneous Frameshifting Versus Programmed Frameshifting 30 Spontaneous Frameshifts Can Be Induced at Specific Codons 31 4 Programmed 1 Frameshifting 41 The pifE Gene of E coli 41 Using the pifE System to Study General Frameshifting in E coli 46 Ty Retrotransposons in Yeast 47 Frameshifting in Retrotransposon Ty1 Occurs by tRNA Slippage 48 Frameshifting in Retrotransposon Ty3 Occurs by Out of Frame Binding of tRNA 51 The Rat Ornithine Decarboxylase Antizyme Gene 56 Summary 62 5 Programmed 1 Frameshifting in Eukaryotes 69 Programmed 1 Frameshifting in Eukaryotes 69 1 Frameshifting Occurs on a Slippery Heptamer 71 The Simultaneous Slippage Model 72 of 1 Frameshifting by a Downstream Pseudoknot 77 Stimulation Does the Pseudoknot Only Block Passage of the Ribosome 79 Not All Pseudoknots Which Cause Ribosomes to Pause Can Stimulate 1 Frameshifting 84 Is There a Pseudoknot Recognizing Factor 88 Some Simultaneous Slippage Sites Do Not Include a Stimulatory Pseudo knot 91 Frameshifting Regulates a Morphogenetic Process 92 6 Programmed 1 Frameshift Sites in Prokaryotes 103 The dnaX Gene 1 Frameshifting Stimulated by Both Upstream and Downstream Elements 103 Programmed 1 Frameshifts in Insertion Sequences Are Mechanistically Diverse *Translation Pausing* Cameel H. Makhoul, 2002 Control of Gene Expression Norman Maclean, 1976 The control of gene expression and its levels of action Gene expression in prokaryotes Experimental systems of differential gene function in eukaryotes systems involving one type of protein Experimental systems of differential gene function in eukaryotes systems of limited complexity Experimental systems of differential gene function in eukaryotes systems not well understood in molecular terms RNA involvement in gene expression General concepts of gene regulation Translation Factors in Control of Gene Expression, 1997

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