

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

Pogil Gene Expression

**Donald P. Nierlich, William J. Rutter, C.
Fred Fox**

Pogil Gene Expression:

Gene Regulation David S. Latchman, 1998 The previous editions of *Gene Regulation* have helped students in biological science and medicine gain a full understanding of the issues of gene regulation In this edition new material reflects the progress that has been made in the understanding of gene regulation The most significant change is the addition of an extra chapter describing the basic processes by which DNA is converted in RNA and then into protein This important new chapter makes this edition complete as a textbook on gene expression and its regulation Translational Regulation of Gene Expression J. Ilan, 2013-11-11 *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 fuction in eukaryotes systems involving one type of protein Experimental systems of differential gene fuction in eukaryotes systems of limited complexity Experimental systems of differential gene fuction in eukaryotes systems not well understood in molecular terms RNA involvement in gene expression General concepts of gene regulation **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 Gene Expression Michael Karin, 1993 This book is the first in a series covering all aspects of gene expression and regulation as well as related areas of molecular biology It is essential reading for all molecular biologists cell biologists biochemists and biotechnologists **Inducible Gene Expression, Volume 2** P.A. Baeuerle, 2012-06-14 Cells have evolved multiple strategies to adapt the composItIon and quality of their protein equipment to needs imposed by changing conditions within the organism Extracellular stimuli that inform cells about such needs are hormones cytokines and neurotransmitters which bind to specific cell surface receptors Inside the cell secondary signals are then produced which ultimately initiate the expression of proteins giving novel functional properties to the stimulated cells This process can be controlled at a transcriptional posttranscriptional translational or posttranslational level Extensive research over the past fifteen years has shown that transcriptional regulation is probably the most impor tant strategy used to control the production of new proteins in response to hormonal signals At the level of gene transcription the initiation of mRNA synthesis is most frequently used to govern gene expression The key elements controlling transcription initiation in eukaryotes are acti vator proteins transactivators that bind in a sequence specific

manner to short DNA sequences in the proximity of genes The activator binding sites are elements of larger control units called promoters and enhancers which bind many distinct proteins that 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 In this second volume of Inducible Gene Expression leading scientists in the field review eight eukaryotic transactivators that allow cells to respond to hormonal stimuli by the expression of new proteins

Mechanisms of Gene Regulation Carsten Carlberg, Ferdinand Molnár, 2013-12-11 This textbook aims to describe the fascinating area of eukaryotic gene regulation for graduate students in all areas of the biomedical sciences Gene expression is essential in shaping the various phenotypes of cells and tissues and as such regulation of expression is a fundamental aspect of nearly all processes in physiology both in healthy and in diseased states This pivotal role for the regulation of gene expression makes this textbook essential reading from students of all the biomedical sciences in order to be better prepared for their specialized disciplines A complete understanding of transcription factors and the processes that alter their activity is a major goal of modern life science research The availability of the whole human genome sequence and that of other eukaryotic genomes and the consequent development of next generation sequencing technologies have significantly changed nearly all areas of the biological sciences For example the genome wide location of histone modifications and transcription factor binding sites such as provided by the ENCODE consortium has greatly improved our understanding of gene regulation Therefore the focus of this book is the description of the post genome understanding of gene regulation The purpose of this book is to provide in a condensed form an overview on the present understanding of the mechanisms of gene regulation The authors are not aiming to compete with comprehensive treatises but rather focus on the essentials Therefore the authors have favored a high figure to text ratio following the rule which states that a picture tells more than thousand words The content of the book is based on the lecture course which is given by Prof Carlberg since 2001 at the University of Eastern Finland in Kuopio The book is subdivided into 4 sections and 13 chapters Following the Introduction there are three sections which take a view on gene regulation from the perspective of transcription factors chromatin and non coding RNA respectively Besides its value as a textbook *Mechanisms of Gene Regulation* will be a useful reference for individuals working in biomedical laboratories

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 of genes The activator binding sites are elements of larger proximity control units ca lied promoters and enhancers which bind many distinct proteins These may synergize or negatively cooperate with the activators The do 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 partici pate in signal transduction by moving from the cytoplasm into the nuc1eus 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

Prokaryotic Gene Expression Simon Baumberg, 1999-05-27 Prokaryotic gene expression is not only of theoretical interest but also of highly practical significance It has implications for other biological problems such as developmental biology and cancer brings insights into genetic engineering and expression systems and has consequences for important aspects of applied research For example the molecular basis of bacterial pathogenicity has implications for new antibiotics and in crop development Prokaryotic Gene Expression is a major review of the subject providing up to date coverage as well as numerous insights by the prestigious authors Topics covered include operons protein recognition of sequence specific DNA and RNA binding sites promoters sigma factors and variant tRNA polymerases repressors and activators post transcriptional control and attenuation ribonuclease activity mRNA stability and translational repression prokaryotic DNA topology topoisomerases and gene expression regulatory networks regulatory cascades and signal transduction phosphotransfer reactions switch systems transcriptional and translational modulation methylation and recombination mechanisms pathogenicity toxin regulation and virulence determinants sporulation and genetic regulation of antibiotic production origins of regulatory molecules selective pressures and evolution of prokaryotic regulatory mechanisms systems Over 1100 references to the primary literature are cited Prokaryotic Gene Expression is a comprehensive and authoritative review of current knowledge and research in the area It is essential reading for postgraduates and researchers in the field Advanced undergraduates in biochemistry molecular biology and microbiology will also find this book useful **Inducible Gene Expression, Volume 1**

P.A. Baeuerle, 2012-03-14 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 pro teins transmit ting novel functional properties to cells can be controlled at a transcrip tional 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 ofmRNA 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 of genes The activator binding sites are elements of larger proximity control units ca lied promoters and enhancers which bind

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Enhancers and Eukaryotic Gene Expression Yakov Gluzman, 1983 *Analysing Gene Expression, A Handbook of Methods* Stefan Lorkowski, Paul M. Cullen, 2006-03-06 This book combines the experience of 225 experts on 900 pages Scientists worldwide are currently overwhelmed by the ever increasing number and diversity of genome projects This handbook is your guide through the jungle of new methods and techniques available to analyse gene expression the first to provide such a broad view of the measurement of mRNA and protein expression in vitro in situ and even in vivo Despite this broad approach detail is sufficient for you to grasp the principles behind each method In each case the authors weigh up the advantages and disadvantages paying particular attention to the automated high throughput processing demanded by the biotech industry Completely up to date the book covers such ground breaking methods such as DNA microarrays serial analysis of gene expression differential display and identification of open reading frame expressed sequence tags All the methods and necessary equipment are presented visually in more than 300 mainly colour illustrations to assist their step by step reproduction in your laboratory Each chapter is rounded off with its own set of extensive references that provide access

to detailed experimental protocols In short the bible of analysing gene expression **Molecular Mechanisms in the Control of Gene Expression** Donald P. Nierlich, William J. Rutter, C. Fred Fox, 1977 **Gene Expression and Regulation in Mammalian Cells** Fumiaki Uchiumi, 2018-02-28 Sixty years after the central dogma great achievements have been developed in molecular biology We have also learned the important functions of noncoding RNAs and epigenetic regulations More importantly whole genome sequencing and transcriptome analyses enabled us to diagnose specific diseases This book is not only intended for students and researchers working in laboratory but also physicians and pharmacists This volume consists of 14 chapters divided into 4 parts Each chapter is written by experts investigating biological stresses epigenetic regulation and functions of transcription factors in human diseases All articles presented in this volume by excellent investigators provide new insights into the studies in transcriptional control in mammalian cells and will inspire us to develop or establish novel therapeutics against human diseases *Mechanisms of Gene Regulation: How Science Works* Carsten Carlberg, Ferdinand Molnár, 2020-10-29 This textbook aims to describe the fascinating area of eukaryotic gene regulation for graduate students in all areas of the biomedical sciences Gene expression is essential in shaping the various phenotypes of cells and tissues and as such regulation of gene expression is a fundamental aspect of nearly all processes in physiology both in healthy and in diseased states Th is pivotal role for the regulation of gene expression makes this textbook essential reading for students of all the biomedical sciences in order to be better prepared for their specialized disciplines A complete understanding of transcription factors and the processes that alter their activity is a major goal of modern life science research The availability of the whole human genome sequence and that of other eukaryotic genomes and the consequent development of next generation sequencing technologies have significantly changed nearly all areas of the biological sciences For example the genome wide location of histone modifications and transcription factor binding sites such as provided by the ENCODE consortium has greatly improved our understanding of gene regulation Therefore the focus of this book is the description of the post genome understanding of gene regulation **Anatomy of Gene Regulation** Panagiotis A. Tsonis, 2003-01-13 No longer simple line drawings on a page molecular structures can now be viewed in full figured glory often in color and even with interactive possibilities Anatomy of Gene Regulation is the first book to present the parts and processes of gene regulation at the three dimensional level Vivid structures of nucleic acids and their companion proteins are revealed in full color three dimensional form Beginning with a general introduction to three dimensional structures the book looks at the organization of the genome the structure of DNA DNA replication and transcription splicing protein synthesis and ultimate protein death Throughout the text employs a discussion of genetics and structural mechanics The concise and unique synthesis of information will offer insight into gene regulation and into the development of methods to interfere with regulation at diseased states This textbook and its accompanying web site are appropriate for both undergraduate and graduate students in genetics molecular biology structural biology and biochemistry courses 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 EXPRESSION AND ITS REGULATION Werner Maas, 2013-03-06 Werner Maas is Professor Emeritus of Microbiology at New York University School of Medicine Since his student days in 1941 he has been involved in the development of the new science of molecular genetics His main contributions have been in the discovery of regulatory genes that are essential for the proper functioning of all genes in the maintenance of living cells In 1955 he discovered that the formation of the amino acid arginine was feedback regulated by arginine in combination with the product of a regulatory gene This single gene product controls the formation of the eight enzymes of arginine biosynthesis The main part of this book deals with the analysis of the molecular mechanism of this regulation

Regulation of Gene Expression Gary H. Perdew, Jack P. Vanden Heuvel, Jeffrey M. Peters, 2008-08-17 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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