

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 Expressions Transcription Pogil

KJ Lindholm-Leary



Gene Expressions Transcription Pogil:

Mechanisms of Gene Expression Robert O. J. Weinzierl, 1999 This book presents much of the current thinking concerning molecular mechanisms of transcriptional control in a form easily accessible to undergraduates with an understanding of basic molecular biology concepts It contains detailed information about the various pro and eukaryotic transcriptional machineries that has recently become available through the combined efforts of geneticists biochemists and structural biologists The book will thus not only serve as an undergraduate text but also offer something new and interesting to more advanced readers and professional scientists who want to keep up to date with rapid advances in this field BOOK JACKET Title Summary field

provided by Blackwell North America Inc All Rights Reserved **Eukaryotic Transcription Factors** David S.

Latchman, 2010-07-28 Transcription or the process by which DNA produces RNA is a central aspect of gene expression Transcription factors regulate transcription during development and in disease states As such it is critical for researchers to gain a good understanding of the relationship between the structure of various families of transcription factors and their function as well as roles in human disease Since publication of the Fourth Edition there have been major advances notably in the areas of chromatin remodeling and genome scale analyses This complete update includes all new coverage of the latest developments from enabling genomic technologies to studies on the importance of post translational modifications beyond phosphorylation events Potential of transcription factors as therapeutic targets in human disease Importance of histone modifications Use of genome based sequence analysis and high throughput methods Applications of the chromatin immunoprecipitation ChIP assay Transcriptional elongation Regulation by post translational modifications Regulatory networks and bioinformatics *Mechanisms Of Gene Expression: Structure, Function And Evolution Of The Basal*

Transcriptional Machine Robert O J Weinzierl, 1999-08-10 A detailed knowledge of the mechanisms underlying the transcriptional control of gene expression is of fundamental importance to many areas of contemporary biomedical research ranging from understanding basic issues such as control of embryonic development to practical applications in industry and medicine Although elementary concepts of gene expression are described in all general molecular biology textbooks the depth of coverage is often rather limited and recent discoveries are sometimes not adequately taken into consideration This book presents much of the current thinking concerning molecular mechanisms of transcriptional control in a form easily accessible to undergraduates with an understanding of basic molecular biology concepts It contains detailed information about the various pro and eukaryotic transcriptional machineries that has recently become available through the combined efforts of geneticists biochemists and structural biologists The book will thus not only serve as an undergraduate text but also offer something new and interesting to more advanced readers and professional scientists who want to keep up to date with rapid advances in this field Gene Structure and Transcription Trevor John Clark Beebe, Julian Burke, 1988

Emphasizing exciting recent developments in the study of gene structure and transcription processes this compares and

contrasts eukaryotic and prokaryotic gene structure transcription apparatus and regulation of transcription at molecular level

Gene Expression M. Karin, 2013-03-08 This book is the first volume in a new series Progress in Gene Expression The control of gene expression is a central most topic in molecular biology as it deals with the utilization and regulation of gene information As we see huge efforts mounting all over the developed world to understand the structure and organization of several complex eukaryotic genomes in the form of Gene Projects and Genome Centers we have to remember that without understanding the basic mechanisms that govern the use of genetic information much of this effort will not be very productive Fortunately however research during the past seven years on the mechanisms that control gene expression in eukaryotes has been extremely successful in generating a wealth of information on the basic strategies of transcriptional control Although regulation of gene expression is exerted at many different levels much of the emphasis in this series will be on transcriptional control A future volume however will deal with other levels of regulation The progress in understanding the control of eukaryotic transcription can only be appreciated by realizing that seven years ago we did not know the primary structure of a single sequence specific transcriptional activator and those whose primary structures were available e.g. homeo domain proteins were not yet recognized to function in this capacity

Transfer and Expression of Eukaryotic Genes H.S. Ginsberg, 2012-12-02 Transfer and Expression of Eukaryotic Genes documents the progress in our understanding of the transfer and expression of eukaryotic genes This book covers topics organized around three themes gene expression and its regulation in vivo gene transfer and development and viral gene and oncogene systems This text is divided into three sections encompassing 25 chapters and begins with an overview of the molecular basis of gene expression with emphasis on transcription complexes that account for transcription control in eukaryotic genes It then turns to experiments that assess the in vitro stimulatory effect of the SV40 72 bp repeat on specific transcription from heterologous promoter elements using a HeLa whole cell extract The reader is methodically introduced to the regulation signals and factors of histone gene transcription transcriptional control of beta globin and liver specific genes in mouse cells and gene transfer in Drosophila and the sea urchin Strongylocentrotus purpuratus This book also considers the splicing of messenger RNA precursors and the regulation of thymidine kinase enzyme expression and then concludes with a chapter that describes the activation of the myc oncogene by chromosomal translocation This book will be of interest to students and researchers in fields ranging from molecular genetics to microbiology biochemistry pathology and immunology

Gene Expression and Control Fumiaki Uchiumi, 2019-04-17 Transcription is the most fundamental nuclear event by which the information of nucleotide sequences on DNA is transcribed into RNA by multiple proteins including RNA polymerases Transcription determines the functions of proteins and the behaviour of cells appropriately responding to environmental changes This book is intended for scientists especially those who are interested in the future prospect of gene expression and control in medicine and industry This book consists of 9 chapters divided into four parts Each chapter is written by experts both in the basic and applied scientific field

A collection of articles presented by active and laboratory based investigators provides evidence from the research giving us a rigid platform to discuss Gene Expression and Control

Gene Expression and Regulation in Mammalian Cells

Fumiaki Uchiumi, 2018-02-21 Central dogma was presented by Dr Francis Crick 60 years ago The information of nucleotide sequences on DNAs is transcribed into RNAs by RNA polymerases We learned the mechanisms of how transcription determines function of proteins and behaviour of cells and even how it brings appearances of organisms This book is intended for scientists and medical researchers especially who are interested in the relationships between transcription and human diseases This volume consists of an introductory chapter and 14 chapters divided into 4 parts Each chapter is written by experts in the basic scientific field A collection of articles presented by active and laboratory based investigators provides recent advances and progresses in the field of transcriptional regulation in mammalian cells

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

Gene Transcription

R. J. White, 2009-04-01 Transcription is the focus of much cutting edge research as befits its essential place in biology The established link between defects in gene transcription and many human disorders has fuelled considerable activity in the biomedical arena particularly cancer research This concentration of attention has uncovered a myriad of factors involved in transcription and the literature is now rife with jargon and complexity Gene Transcription Mechanisms and Control aims to demystify the subject for a non expert audience providing a guided tour around the complex machinery of the transcriptional apparatus and discussing how the various factors achieve their functions By focusing on general principles and illustrating these with a select group of examples many of which are linked to human diseases the author conveys the intricacies of transcriptional control in an accessible manner With the first chapter presenting an overview of gene expression this is a stand alone text ideal for advanced level undergraduates and

postgraduates in biology biochemistry and medical sciences It will also appeal to research scientists who require a broad current perspective on this rapidly moving and complex field Provides a broad and accessible introduction to gene transcription Up to date coverage of the major topics in a rapidly evolving field Illustrates the links between aberrant transcription and human disease Explains the jargon associated with transcription factors Transcriptional Regulation and Genome Structure Abraham Selby Weintraub,2018 The regulation of gene expression is fundamental to the control of cell identity development and disease The control of gene transcription is a major point in the regulation of gene expression Transcription is regulated by the binding of transcription factors to DNA regulatory elements known as enhancers and promoters This leads to the formation of a DNA loop connecting the enhancer and the promoter resulting in the subsequent transcription of the gene Thus the structuring of the genome into DNA loops is important in the control of gene expression This thesis will focus on the role of genome structure in transcriptional regulation Two key questions in this area that I have attempted to address during my PhD are how are enhancer promoter interactions constrained so that enhancers do not operate nonspecifically and are there proteins that facilitate enhancer promoter looping I will describe the identification of DNA loop structures formed by CTCF and cohesin that constrain enhancer promoter interactions These structures termed insulated neighborhoods are perturbed in cancer and this perturbation results in the inappropriate activation of oncogenes Additionally I will describe the identification and characterization of the transcription factor YY1 as a factor that can structure enhancer promoter loops Through a combination of genetics genomics and biochemistry my studies have helped to identify insulated neighborhood structures shown the importance of these structures in the control of gene expression revealed that these structures are mutated in cancer and identified YY1 as a structural regulator of enhancer promoter loops I believe these studies have produced a deeper understanding of the regulatory mechanisms that connect the control of genome structure to the control of gene transcription **Mechanisms of Transcription** Bruce Stillman,Cold Spring Harbor Laboratory,1998 Proceedings of a summer 1998 meeting presenting results of recent studies in gene transcription Covers events ranging from activation through promoter recognition repression chromosome structure chromatin remodeling initiation and elongation and regulatory complexes and pathways Subjects include targeting sir proteins to sites of action the yeast RNA polymerase III transcription machinery nuclear matrix attachment regions to confer long range function on immunoglobulin ATP dependent remodeling of chromatin and the transcriptional basis of steroid physiology Annotation copyrighted by Book News Inc Portland OR *Transcription and Splicing* B. D. Hames,David M. Glover,1988 This book gives a coordinated review of our present knowledge of eukaryotic RNA synthesis *A Handbook of Transcription Factors* Timothy R. Hughes,2011-05-10 Transcription factors are the molecules that the cell uses to interpret the genome they possess sequence specific DNA binding activity and either directly or indirectly influence the transcription of genes In aggregate transcription factors control gene expression and genome organization and play a pivotal role in many aspects of

physiology and evolution This book provides a reference for major aspects of transcription factor function encompassing a general catalogue of known transcription factor classes origins and evolution of specific transcription factor types methods for studying transcription factor binding sites in vitro in vivo and in silico and mechanisms of interaction with chromatin and RNA polymerase

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

Transcription William M. Brown, Philip M. Brown, 2001-09-20 Knowledge of transcription has moved forward at a furious pace over recent years and an understanding of the processes involved in gene regulation and expression has become an essential element in biochemistry genome biology molecular biology and molecular genetics In this timely book the authors present an accessible yet comprehensive coverage suitable for students at a senior undergraduate level and for postgraduates needing an overview of the current state of play It covers a number of pertinent examples of transcription systems for eukaryotes and prokaryotes indicates methods for studying transcription and surveys the whole topic of transcription from many perspectives

Mechanisms of Transcription Fritz Eckstein, David M.J. Lilley, 2012-12-06 Mechanisms of Transcription presents a unique perspective on the fundamental processes of transcription A collection of distinguished authors draws together the underlying mechanisms involved in the process of transcription This includes RNA polymerase function and its interaction with promoter sequences and the structures of the various components on the transcriptional machinery Both prokaryotic and eukaryotic systems NMR and crystallographic structures of a number of important eukaryotic transcription factors are discussed as well as the role of chromatin structure

Transcription Ronald C. Conaway, Joan Weliky Conaway, 1994 Presents a coherent account of many productive lines of investigation organized as a series of mini reviews that focus on major research areas including studies on the structure and mechanisms of action of bacterial viral and eukaryotic RNA polymerases and the transcription factors that control their activities Each review provides a brief but up to date account of the progress of research in a particular area a discussion of the major issues and questions driving that research and a brief description of the evolving approaches and technologies used to address those questions Annotation copyright by Book News Inc Portland OR

Analysing Gene Expression 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

Gene Transcription B. D. Hames, Steve J. Higgins, 1993

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