

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

Biology Gene Expression Pogil Answers

Gerald M. Kolodny



Biology Gene Expression Pogil Answers:

Gene Expression During Cell Differentiation John Bertrand Gurdon, 1973 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

Translational Regulation of Gene Expression Joseph Ilan, 1987 EUKARYOTIC GENE REGULATION Gerald M. Kolodny, 1980 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

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

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From Gene to Protein Thomas Robert Russell,1979 From Gene to Protein Information Transfer in Normal and Abnormal Cells

Genes and gene regulation Norman Maclean,1989

Unraveling DNA Maxim D. Frank-Kamenetskii,1993-07-19 brilliant Yet anybody can understand it it reads like a detective story John Maddox Editor of Nature he skillfully imbues us with his joy and fascination with the living world and the role of DNA in it Bruce M Alberts President of the National Academy of Sciences Unraveling DNA provides both laymen and scientist readers with a concise highly readable understanding of the structure properties and functions of the DNA molecule The reader will find answers to all major questions about the biological biotechnological medical physical chemical and mathematical aspects of DNA In addition the book includes an historical retrospective of past DNA research and forecasts future trends in the field Written by an internationally acclaimed professor of biophysics as well as one of the world s leading authorities in DNA research Unraveling DNA is designed to help professionals not specializing in molecular biology to understand the recent advances in this rapidly expanding field The book is also especially useful to advanced high school students junior college students and university students interested in modern biology medicine physics chemistry and mathematics

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