

## 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 Expressions Key

**Gary H. Perdew, Jack P. Vanden  
Heuvel, Jeffrey M. Peters**



## **Pogil Gene Expressions Key:**

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

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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 called 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 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

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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 *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 important 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 activator 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

**Maximizing Gene Expression** Reznikoff William, Larry Gold, 1986 **Tissue Specific Gene Expression** Rainer Renkawitz, 1989 **Gene Expression and Regulation** Jun Ma, 2006 **Applications of Chimeric Genes and Hybrid Proteins** Jeremy W. Thorner, Scott Emr, John Abelson, Jeremy Thorner, 2000 **Gene Expression** S. R. Kulshrestha, 2007 **Gene Expression: Plasmids and phages** Benjamin Lewin, 1974 Cell structure and genetics Organization of the genetic apparatus Organization of the eucaryotic genome Expression of genetic information

**Long-range Control of Gene Expression** Aghajan, Cavallaro, 2008 Not Available **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 Regulation of gene expression U

Satyanarayana,2014-11-07 Regulation of gene expression Regulation of gene expression *Gene Expression and Regulation in Mammalian Cells - Transcription Toward the Establishment of Novel Therapeutics*,19?? *Inducible gene expression*,1995 *Translational Regulation of Gene Expression* Joseph Ilan,1987 Gene Expression Fumiaki Uchiumi,2022

**Exploring Gene Expression and Protein Binding Data for Gene Regulation** Mohsina Mahmuda Ferdous,2016

Mechanism of Gene Regulation by Coding PolyA Tracks Laura Lea Arthur,2017 Regulation of gene expression is essential for cellular development and survival The great variety and complexity of regulatory mechanisms underscores this fact Messenger RNA stability and translational efficiency are often key determinants of gene expression mRNA surveillance pathways discovered for their role in degradation of aberrant mRNA are now known to be instrumental in the regulation of physiologically correct mRNA stability Thus the study of cis elements in a transcript that can induce mRNA surveillance pathways has become an area of particular interest Here I report on the mechanism of gene regulation by coding polyA tracks defined as a sequence of at least 12 consecutive nucleotides in which all but one are adenosines When a polyA track is present in the open reading frame of an mRNA the translating ribosome stalls and frameshifts due to interactions with the polyA sequence These events lead to degradation of the transcripts by the mRNA surveillance pathways no go decay and nonsense mediated decay As a consequence of the polyA sequence less protein is expressed from these transcripts Approximately 2% of genes in most genomes including humans contain a polyA track and are potentially regulated by this mechanism

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