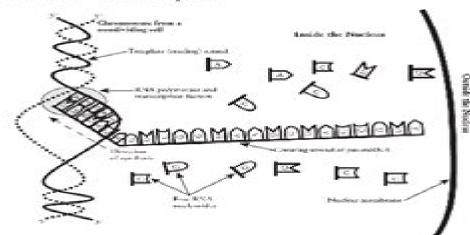
POGIL - Gene Expression: Transcription How is mRNA synthesized and what message does it carry?

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? (HSnt: 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 Answers

Digital Gene Technologies, Inc

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Regulation of gene expression U Satyanarayana, 2014-11-07 Regulation of gene expression Regulation of gene **Tissue Specific Gene Expression** Rainer Renkawitz,1989 Gene Expression ,1995 expression Gene **Expression** S. R. Kulshrestha, 2007 Gene Expression, Translation and the Behavior of Proteins Lester Long-range Control of Gene Expression Aghajan, Cavallaro, 2008 Not Available Goldstein.1980 Gene Expression and Regulation Jun Ma,2006 Inducible gene expression ,1995 DNA, RNA, and the Inheritance of Traits Don Rauf, 2018-07-15 Why do people have certain traits and talents We are all who we are because cells in our bodies grow and respond according to instructions from DNA molecules RNA carries the DNA details from the cell nucleus to other parts of the cell Engaging language and detailed colorful images and diagrams simplify complicated scientific principles into pieces of information students can comprehend more easily They will gain a deeper understanding of how DNA and RNA work together to make all the individual humans animals and plants on our planet **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 Total Gene Expression Digital Gene Technologies, Inc, 2000 Inducible Gene Expression: Hormonal signals Patrick Alexander Baeuerle, 1995 Gene **Decoding the Relationship Between** Gene expression. Vol. 2 B. Lewin, 1974 expression. Vol. 1 B. Lewin, 1974 **Promoter Sequence and Gene Expression** Jason Gertz, 2008 Theme: gene expression ,2000 An A to Z of DNA Science Jeffre L. Witherly, Galen P. Perry, Darryl L. Leja, 2001 Defines over 200 terms dealing with the language of genes genomes DNA biotechnology and heredity Publisher marketing Gene expression systems ,2004 Gene expression. Vol. **Control of Gene Expression** ,1974 3 B. Lewin, 1977

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