

POGIL - Gene Expression: Transcription

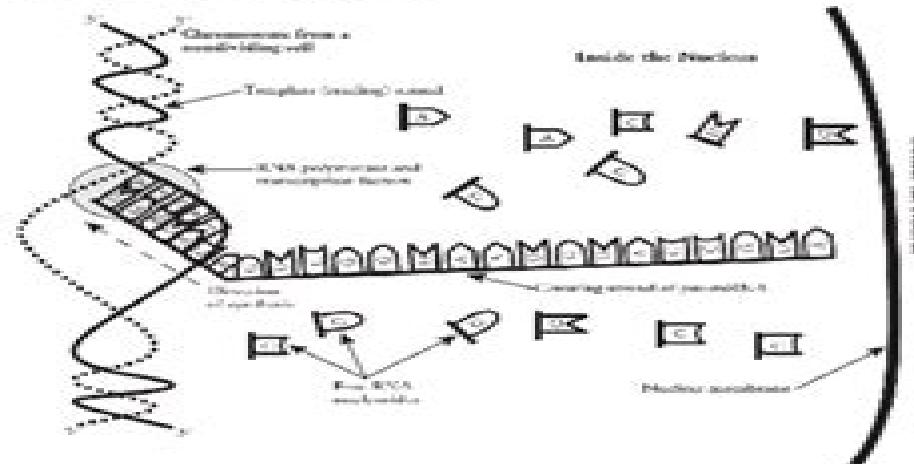
How is mRNA synthesized and what message does it carry?

Why?

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



4. Refer to Model 1.

- What is the base-pair rule for a DNA strand matching an RNA strand?
- 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.

- In which direction is the DNA molecule read? _____
- 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.
- 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

- 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?)**

13 4 Gene Regulation And Expression Answer Key

RC Schank

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Index Medicus ,2001 **Cumulated Index Medicus** ,1989 **HLA 1991** Kimiyoshi Tsuji,Miki Aizawa,Takehiko Sasazuki,1992 **Middleton's Allergy** N. Franklin Adkinson,Elliott Middleton (Jr.),2003 Provides coverage of state of the art basic science as well as guidance on the practical aspects of day to day diagnosis and management **International Journal of Oncology** ,1996 **The Journal of Immunology** ,2009 **Transactions Biochemical Society (Great Britain)**,2009

Proceedings of the National Academy of Sciences of the United States of America National Academy of Sciences (U.S.),2006 **Abstracts, 13th Annual UCLA Symposia, February 5-March 30, 1984** ,1984 **Encyclopedia of Respiratory Medicine** Geoffrey J. Laurent,Stephen D. Shapiro,2006 **Genetics** Robert J. Brooker,1999 Direct from the Windows 95 development team this comprehensive book disk combo is the most exhaustive source of technical information that computer professionals advanced users and many enthusiastic Windows users need to become experts on the latest release of Windows It contains some of the most sought after tips tricks and productivity secrets available 3 disks **Biological & Agricultural Index** ,1997 **Chapter Resource 10 How Proteins/Made Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004 **American Journal of Respiratory and Critical Care Medicine** ,2006 **Neuroscience Letters** ,1991-08

Essentials of Genetics William S. Klug,Michael R. Cummings,1999 Essentials of Genetics derived from Klug and Cummings highly acclaimed Concepts of Genetics 6 e 2000 the authors capture students interest with up to date coverage of cutting edge topics and research Essentials 3 E will help students connect the science of genetics to the issues of today through interesting and thought provoking applications Essentials 3 E presents a balanced coverage of both classical and modern genetics Courses can be found in biology zoology agriculture and health science **Applied Science & Technology Index** ,1996 **Genetics Abstracts** ,1999 **Hurst's the Heart, 13th Edition: Two Volume Set** Valentin Fuster,Richard Walsh,Robert A. Harrington,2011-02-12 The trusted landmark cardiology resource thoroughly updated to reflect the latest clinical perspectives Includes DVD with image bank A Doody s Core Title ESSENTIAL PURCHASE for 2011

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