

POGIL - Gene Expression: Transcription

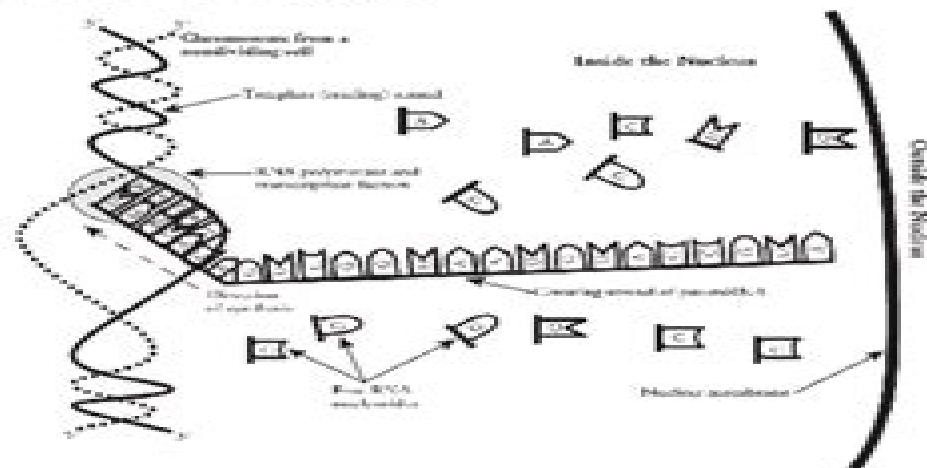
How is mRNA synthesized and what message does it carry?

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 Expression Transition Pogil

DJ Losen



Gene Expression Transition Pogil:

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Gene Expression Transition Pogil**

In a global inundated with monitors and the cacophony of immediate conversation, the profound power and mental resonance of verbal beauty often disappear in to obscurity, eclipsed by the regular assault of sound and distractions. Yet, nestled within the lyrical pages of **Gene Expression Transition Pogil**, a interesting work of literary brilliance that impulses with fresh feelings, lies an wonderful journey waiting to be embarked upon. Published by a virtuoso wordsmith, that enchanting opus courses visitors on a psychological odyssey, delicately exposing the latent possible and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is central styles, dissect their charming writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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