

How is mRNA synthesized and what message does it carry?

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.

The diagram illustrates the process of transcription within a eukaryotic nucleus. A double-stranded DNA molecule, labeled 'Chromosome from a nondividing cell', is shown with its 5' and 3' ends. One strand serves as the 'Template (reading) strand'. 'RNA polymerase and transcription factors' are bound to the DNA, moving along it in the 'Direction of synthesis'. As they move, they synthesize a 'Growing strand of pre-mRNA' by adding 'Free RNA nucleotides' (Adenine, Cytosine, Guanine, and Uracil) that are complementary to the template strand. The process occurs 'Inside the Nucleus', which is separated from the 'Outside the Nucleus' (cytoplasm) by the 'Nuclear membrane'.

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?)

Pogil Dna Transcription Translation

R Bogdan



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