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Genetic Code- how to translate mRNA  
~~DNA, RNA and Protein synthesis.mp4~~  
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~~Protein Synthesis~~

There are 3 types of RNA, and each plays an important role in protein synthesis.

Messenger RNA (mRNA) brings the genetic details from DNA into the

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cytoplasm to the ribosomes, the sites of protein synthesis. This details is brought by the series of bases in mRNA, which is complementary to the series of bases in the DNA design template. Ribosomal RNA (rRNA) and protein make up ribosomes, the sites of protein synthesis. Ribosomes consist of the enzymes needed for protein

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~~Protein Synthesis Process and Role of  
DNA And RNA In It ...~~

To make RNA, DNA pairs its bases with those of the “ free ” nucleotides (Figure 2). Messenger RNA (mRNA) then travels to the ribosomes in the cell cytoplasm,

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where protein synthesis occurs (Figure 3).  
The base triplets of transfer RNA (tRNA)  
pair with those of mRNA and at the same  
time deposit their amino acids on the  
growing protein chain.

~~Life - DNA, RNA, and protein |~~  
Britannica

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RNA and protein synthesis review

Structure of RNA. DNA alone cannot account for the expression of genes. RNA is needed to help carry out the instructions... Central dogma of biology. A gene that encodes a polypeptide is expressed in two steps. ... The first step in decoding... Transcription and ...

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~~RNA and protein synthesis review (article)  
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Deoxyribonucleic acid (DNA) carries the sequence of coded instructions for the synthesis of proteins, which are transcribed into ribonucleic acid (RNA) to be further translated into actual proteins. The

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process of protein production involves two steps: transcription and translation.

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~~What Are the Roles of DNA and RNA in Protein Synthesis?~~

The syntheses of RNA (transcription),

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DNA and proteins (translation) are fundamental processes necessary for all life. Transcription begins by uncoiling a section of DNA that will be used as the template and is initiated by RNA polymerase binding to a promoter sequence.



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~~DNA, RNA and Protein Synthesis | Cell  
Metabolism | Tocris ...~~

Amoeba Sisters Video Recap: DNA vs.  
RNA & Protein Synthesis UPDATED  
Whose Show Is This? DNA shouldn ' t  
get all the credit! For this portion, check  
out the Amoeba Sisters DNA vs. RNA  
video. Then, write “ D ” if for DNA,

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“R ” if for RNA, or “ BOTH ” if it  
pertains to both DNA and RNA. 1. \_\_\_\_\_  
I am a nucleic acid. 2. \_\_\_\_\_ I am usually  
single-stranded. 3. \_\_\_\_\_

~~video\_recap\_of\_dna\_vs\_rna\_and\_protein  
\_synthesis\_updated\_by ...~~

ribonucleic acid, a natural polymer that is

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present in all living cells and that plays a role in protein synthesis, has uracil base in place of the "t" base in DNA. Can be in/out of nucleus, single stranded.

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DNA contains the instructions for

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Synthesizing what? Proteins. RNA differs from DNA because RNA. Is single stranded, contains a ribose molecule, and contains the nitrogen base uracil. Which of the following are found in both DNA and RNA? Phosphate groups, guanine, and cytosine.

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This 3D animation shows how proteins are made in the cell from the information in the DNA code. To download the subtitles (.srt) for this site, please use th...

~~From DNA to protein 3D YouTube~~

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**DNA transcription**, also known as RNA synthesis is the process by which genetic information that is contained in DNA is re-written into messenger RNA (mRNA) by an RNA polymerase enzyme. The synthesized mRNA is transported out of the cell nucleus where it will later on aid in the synthesis of proteins by the mechanism

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~~DNA Transcription (RNA Synthesis)-  
Article, Diagrams and Video~~

Ribonucleic acid (RNA) is a polymeric molecule essential in various biological roles in coding, decoding, regulation and expression of genes. RNA and DNA are

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nucleic acids. Along with lipids, proteins, and carbohydrates, nucleic acids constitute one of the four major macromolecules essential for all known forms of life. Like DNA, RNA is assembled as a chain of nucleotides, but unlike DNA, RNA is ...

~~RNA - Wikipedia~~



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DNA is copied into a strand of RNA during this step of protein synthesis. What is Transcription? 200. The type of mutation that occurs when one base is replaced by another. ... These special types of proteins help to unzip DNA and match up complementary nucleotide bases during DNA replication and protein synthesis.

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## ~~DNA, RNA and Protein Synthesis~~

The synthesis of proteins occurs in two sequential steps: Transcription and Translation. Transcription occurs in the cell nucleus and uses the base sequence of DNA to produce mRNA. The mRNA

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~~What Is the Role of DNA in Protein  
Synthesis? Video ...~~

The synthesis of new polypeptides requires a coded sequence, enzymes, and messenger, ribosomal, and transfer ribonucleic acids (RNAs). Protein synthesis

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takes place within the nucleus and  
ribosomes of a cell and is regulated by  
DNA and RNA.

~~Protein Synthesis – The Definitive Guide |  
Biology Dictionary~~

Inhibits protein synthesis in susceptible  
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organisms by ...~~

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Q. A DNA molecule with the sequence AGCTCA was used as a template for making mRNA. What would be the sequence of that mRNA molecule?

~~DNA, RNA, Protein Synthesis Practice  
Test Quiz - Quizizz~~

DNA doesn't change into RNA and

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thymine isn't converted into uracil. During transcription a copy of the information in the DNA is made in a new material (RNA). (This is similar to making a wax or plaster cast of an object.) RNA is synthesized from ribonucleotides composed of the nitrogenous bases (A,U,C,G), the sugar ribose, and



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