

The Genetic Code and Enzyme Formation

Introduction

DNA is composed of two long strands of repeating nucleotide bases (A, T, C, G). You have already learned how DNA is able to replicate itself, but how is this simple molecule responsible for all of the traits that exist in every living organism?

The flow of information in organisms, from DNA to traits, is called the **Central Dogma**. Today, you will use paper models to show this important concept.

Procedure

As you work through the procedure, there will be questions asked at certain points. Record the answers to these questions on your **Genetic Code and Enzyme Formation Answer Sheet** before moving on to the next step.

Part 1: Transcription (DNA → mRNA)

Lay out your photocopy of "The Cell". Notice that it shows a DNA molecule within the nucleus of the cell. The line dividing the page is the nuclear membrane. The cytoplasm is on the right side of the page; imagine that the cytoplasm extends off the page and on to your table.

Place the 3 **Transfer RNA** molecules (**tRNA**) and the 4 **amino acid** molecules in random arrangements on your table (the cytoplasm of the cell).

The remaining molecule, **mRNA**, is called a **messenger RNA**. Place the mRNA molecule in the nucleus of the cell next to the DNA molecule. Compare the DNA and mRNA molecules.

1. How many strands of DNA are there compared to mRNA?
2. What nucleotide base is found on mRNA, but not DNA? What nucleotide base of DNA is this replacing?
3. Is this nucleotide base of mRNA also found on the tRNA?

In an RNA molecule, the thymine (T) nucleotide in DNA is replaced by the uracil (U) nucleotide base. This means that the U nucleotide will bond with the A nucleotide in mRNA and tRNA (as opposed to the A-T bond found in DNA).

The DNA molecule in the nucleus of your paper cell has a "code" written down on one of its strands. The letters used in this code are the sequences of A, T, C, and G nucleotides. In this paper model, this code is the gene for brown eyes (in real DNA, the gene for brown eyes would be thousands of base pairs long).

When this code reaches the cytoplasm, it will give instructions on how to make **enzyme B**, the enzyme needed to make brown eyes. This code needs to somehow get from the DNA to the cytoplasm outside of the nucleus. A helper molecule, mRNA (messenger RNA), accomplishes this task by carrying the message of the code from the DNA to the cytoplasm.

Slide your mRNA molecule next to your DNA molecule. Every nucleotide base should fit next to each other.

4. What is the role of mRNA in the cell?

Genetic Code And Enzyme Formation Answer

**Stanley Wallace Jacob,Clarice
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Pharmacy Focus on biochemical processes and clinical applications with MCQs that integrate biochemical pathways and clinical interpretations

The Genetic Code and the Origin of Life Lluís Ribas de Pouplana, 2007-04-03 Early Thoughts on RNA and the Origin of Life The full impact of the essential role of the nucleic acids in biological systems was forcefully demonstrated by the research community in the 1950s Although Avery and his collaborators had identified DNA as the genetic material responsible for the transformation of bacteria in 1944 it was not until the early 1950s that the Hershey Chase experiments provided a more direct demonstration of this role Finally the structural DNA double helix proposed by Watson and Crick in 1953 clearly created a structural frame work for the role of DNA as both information carrier and as a molecule that could undergo the necessary replication needed for daughter cells Research continued by Kornberg and his colleagues in the mid 1950s emphasized the biochemistry and enzymology of DNA replication At the same time there was a growing interest in the role of RNA The 1956 discovery by David Davies and myself showed that polyadenylic acid and polyuridylic acid could form a double helical RNA molecule but that it differed somewhat from DNA A large number of experiments were subsequently carried out with synthetic polyribonucleotides which illustrated that RNA could form even more complicated helical structures in which the specificity of hydrogen bonding was the key element in determining the molecular conformation Finally in 1960 I could show that it was possible to make a hybrid helix

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pathways such as glycolysis the citric acid cycle HMP shunt gluconeogenesis and glycogen metabolism along with clinical conditions like G6PD deficiency glycogen storage diseases and diabetes mellitus The discussion on biological oxidation emphasizes the electron transport chain oxidative phosphorylation substrate level phosphorylation and the effects of inhibitors and uncouplers Lipid metabolism is explained through the oxidation of fatty acids ketone body metabolism de novo fatty acid synthesis and the biological significance of cholesterol including its conversion into bile acids steroid hormones and vitamin D with attention to disorders such as hypercholesterolemia atherosclerosis fatty liver and obesity Amino acid metabolism covers transamination deamination decarboxylation the urea cycle and its disorders catabolism of phenylalanine and tyrosine and their related diseases such as phenylketonuria albinism alcaptonuria and tyrosinemia It also highlights the synthesis and significance of key biological molecules such as dopamine serotonin 5 HT melatonin noradrenaline and adrenaline alongside heme catabolism hyperbilirubinemia and jaundice The section on nucleic acid metabolism and genetic information transfer describes the biosynthesis and catabolism of purine and pyrimidine nucleotides clinical conditions like gout the structural organization of DNA and RNA DNA replication transcription the genetic code translation and inhibitors of protein synthesis The chapter on enzymes introduces their properties nomenclature and IUB classification followed by enzyme kinetics explained through Michaelis and Lineweaver Burke plots It also addresses enzyme inhibition with examples regulatory mechanisms including induction repression and allosteric regulation and their therapeutic and diagnostic applications Isoenzymes are discussed in medical contexts while the section on coenzymes explains their structures and biochemical functions Altogether this textbook integrates biochemical principles with clinical correlations making it an essential guide for pharmacy medical and life science students bridging molecular understanding with disease mechanisms and therapeutic applications

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