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## Nucleic Acids And Protein Synthesis

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### **Nucleic Acids And Protein Synthesis**

Deoxyribonucleic acid is a coiled double helix carrying hereditary information of the cell  
Contains the instructions for making proteins from 20 different amino acids  
Appears as chromatin when cell not dividing  
Structure discovered by Watson & Crick in

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1953  
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**Nucleic Acids &  
Protein Synthesis -  
BIOLOGY JUNCTION**

Chapter 11 Nucleic  
Acids and Protein  
Synthesis The  
Discovery of the DNA  
Structure • DNA was  
discovered in 1869 by  
the Swiss physician  
Friedrich Miescher in  
the pus of discarded  
surgical bandages; he  
named it “nuclein”  
because it was located

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in the nucleus of the cell.

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### **Chapter 11 Nucleic Acids and Protein Synthesis**

In summary, nucleic acids are both DNA & RNA and are key players in protein production. Protein synthesis occurs in 2 parts. Act I happens at the nucleus and King DNA gets his message copied by the messenger RNA. And

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Act II picks up at the ribosome where the message gets translated into amino acids resulting in a polypeptide!

### **01.10 Protein Synthesis & Nucleic Acids | NURSING.com**

Nucleic acid and protein synthesis are connected through a series of steps that occur within biological cells. The genetic



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information of a living organism, which is encoded in its deoxyribonucleic acid (DNA), is expressed through the synthesis of proteins.

### **What Is the Connection between Nucleic Acid and Protein ...**

nucleic acid: RNA and Protein Synthesis In order to be expressed as protein, the genetic information must be

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carried to the protein-synthesizing machinery of the cell, which is in the cell's cytoplasm (see cell). One form of RNA mediates this process.

### **nucleic acid: RNA and Protein Synthesis | Infoplease**

3.1) Nucleic Acids and Protein Synthesis 11. • The process is catalysed by the enzyme DNA

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polymerase. • The double helix unwinds. • The weak hydrogen bonds holding the base pairs together break, allowing two strands to part. Each single chain of bases is exposed.

3.1) Nucleic Acids and Protein Synthesis 12.

### **Nucleic acids and protein synthesis - SlideShare**

Ribosomal RNA and Messenger RNA □  
Ribosomes are the

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sites of protein synthesis - they consist of ribosomal DNA (65%) and proteins (35%) - they have two subunits, a large one and a small one □

Messenger RNA carries the genetic code to the ribosomes - they are strands of RNA that are complementary to the DNA of the gene for the protein to be synthesized

## **Nucleic acids and**

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Protein Synthesis  
**protein synthesis -**  
**SlideShare**

Title: Nucleic Acids And  
Protein Synthesis 1

Nucleic Acids And  
Protein Synthesis 2 I.

What are Nucleic  
Acids? 3 A. Nucleic  
acids are organic  
compounds that  
control all the activities  
of a cell. 4 B. The cells  
of all organisms,  
except viruses, contain  
both types of nucleic  
acids. 5 C. 2 types of  
nucleic acids 6

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Tool Answer...

**PPT - Nucleic Acids  
And Protein  
Synthesis  
PowerPoint ...**

[Nucleic acids and  
protein synthesis]

[Nucleic acids and  
protein synthesis]

[Nucleic acids and  
protein synthesis] Z

Arztl Fortbild (Jena).

1962 Dec 1;56:1300-7.

[Article in German]

Author H BJELKA. PMID:

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Nucleic Acids And

Protein Synthesis

13968164 No abstract  
available. MeSH terms  
DNA ...

**[Nucleic acids and  
protein synthesis] -  
PubMed**

A gene expresses itself through protein synthesis. Gene is a meaningful stretch of DNA (deoxyribo nucleic acid). Nuclear DNA could be seen as a huge cookbook where recipes of thousands of proteins are stored, but

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only few dishes are cooked at a time in cellular kitchen.

### **How do nucleic acids control protein synthesis? | Socratic**

Nucleic Acids and Protein Synthesis.

Terms in this set (58)

What process did Griffith discover?

Transformation

(process carried out by bacterial cells that allows one strain of bacteria to donate



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genes to another strain, thereby changing that strain)

### **Unit 5: Nucleic Acids and Protein**

### **Synthesis Review ...**

Nucleic Acids, Mitosis, Replication and Protein

Synthesis LESSON 1:

THE NUCLEIC ACIDS

(DNA & RNA) State the function (s) of nucleic acids.

Outline DNA & RNA nucleotide structure in terms of

sugar, base and

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phosphate.

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**Nucleic Acids,  
Mitosis, Replication  
and Protein  
Synthesis**

20 different types of amino acids are represented in a DNA molecule by a triplet code,(3 nucleotides)  
Portion of DNA for making a particular protein = GENE;  
Dictates the sequence of amino acids of a particular protein

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molecule and indicates how to start or stop the protein synthesis.

### **5. Nucleic Acids and Protein Synthesis - EHS Anatomy ...**

The fundamental relationship between nucleic acids and protein synthesis—after the brilliant unraveling of the bihelicoidal structure of DNA by Watson and Crick (1953), and then the

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discovery of “messenger RNA”—had, for technical reasons, to be established on the small genomes of prokaryotes, such as bacteria (essentially *Escherichia coli*) and viruses.

**Nucleic Acid Synthesis - an overview | ScienceDirect Topics**  
Protein Synthesis and Site of Action of

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Antimicrobials that Inhibit Protein Synthesis. ... Inhibitors of Nucleic Acid Synthesis and Function . The selectivity of these agents is a result of differences in prokaryotic and eukaryotic enzymes affected by the antimicrobial agent.

**ANTIBIOTICS -  
PROTEIN  
SYNTHESIS, NUCLEIC  
ACID SYNTHESIS ...**

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Start studying Chapter 17: Nucleic Acids and Protein Synthesis. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

### **Chapter 17: Nucleic Acids and Protein Synthesis**

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Try this amazing Biology Quiz On Nucleic Acids And Protein Synthesis! quiz which has been

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attempted 2657 times by avid quiz takers.

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### **Biology Quiz On Nucleic Acids And Protein Synthesis ...**

stretching is also revealed by the dichroism shown in ultra-violet light. result from the combination of nucleic acids and proteins and, in certain cells, constitute the

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major part of the solid material. Nucleic acids combine with the proteins by ionic bonds which are dissociated with relative ease.

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