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~~Nucleic Acids—RNA and DNA Structure—Biochemistry~~ *Anna Marie Pyle (Yale U./HHMI) Part 1: RNA Structure*

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DNA Structure and Replication: Crash Course Biology #10 ~~Nucleic acids—DNA and RNA structure~~ DNA vs RNA (Updated) *DNA replication and RNA transcription and translation | Khan Academy*  
(OLD VIDEO) Why RNA is Just as Cool as DNA

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RNA Structure | A-level Biology | OCR, AQA, Edexcel *RNA Nucleic Acid Structure \u0026amp; Function:A-level. Do you know the differences between mRNA, tRNA \u0026amp; rRNA? structure of dna and rna and their functions || DNA Replication || Translation || Transcription || mRNA, tRNA and rRNA Structure and Types of RNA || RNA (Ribonucleic Acid) Functions || NEET PG || Molecular*

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*Biology* **What Is An mRNA Coronavirus Vaccine?** mRNA Translation (Advanced) DNA vs RNA - 5 Differences Between DNA and RNA ~~DNA animations by wehi.tv for Science-Art exhibition~~ DNA Structure ~~DNA Replication: Copying the Molecule of Life~~ DNA Replication | MIT 7.01SC Fundamentals of Biology Gene Regulation and the Order of the Operon ~~From DNA to protein~~ ~~3D~~ *Cell vs. virus: A battle for health - Shannon Stiles (Molecular Biology Session 3)* *RNA Structure Structure and types of RNA/ structure of m-RNA, t-RNA, r-RNA* ~~DNA ?? RNA ??? ???? | Differences Between DNA and RNA | Khan GS Research Center~~ ~~RNA Structure, Functions and Types | Topic Nucleic acid | Biology lecture~~ **Protein Synthesis (Updated)** Viruses (Updated) Transcription Made Easy- From DNA to RNA (2019) ~~Types of RNA~~ ~~Rna Structure And Function Cold~~

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Functions of RNA. The ribonucleic acid – RNA, which are mainly composed of nucleic acids, are involved in a variety of functions within the cell and are found in all living organisms including bacteria, viruses, plants, and animals. These nucleic acid functions as a structural molecule in cell organelles and are also involved in the catalysis of biochemical reactions. The different types of RNA are involved in various cellular process.

## ~~RNA Structure, Functions and Types of RNA~~

RNA molecules perform a variety of roles in the cell but are mainly involved in the process of protein synthesis (translation) and its regulation. RNA Structure. RNA is typically single stranded and is made of ribonucleotides that are linked by phosphodiester bonds. A ribonucleotide in the RNA chain contains ribose (the pentose

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sugar), one of the four nitrogenous bases (A, U, G, and C), and a phosphate group.

## ~~Structure and Function of RNA | Microbiology~~

The ribose sugar of RNA is a cyclical structure consisting of five carbons and one oxygen. The presence of a chemically reactive hydroxyl ( $\text{-OH}$ ) group attached to the second carbon group in the ribose sugar molecule makes RNA prone to hydrolysis. This chemical lability of RNA, compared with DNA, which does not have a reactive  $\text{-OH}$  group in the same position on the sugar moiety (deoxyribose), is thought to be one reason why DNA evolved to be the preferred carrier of genetic information in ...

## ~~RNA | Definition, Structure, Types, & Functions | Britannica~~

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RNA or ribonucleic acid is a polymer of nucleotides which is made up of a ribose sugar, a phosphate, and bases such as adenine, guanine, cytosine, and uracil. It is a polymeric molecule essential in various biological roles in coding, decoding, regulation, and expression of genes. Figure: (a) Ribonucleotides contain the pentose sugar ribose instead of the deoxyribose found in deoxyribonucleotides.

~~RNA Properties, Structure, Types and Functions ...~~

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RNA Structure RNA is typically single stranded and is made of ribonucleotides that are linked by phosphodiester bonds. A ribonucleotide in the RNA chain contains ribose (the pentose sugar), one of the four nitrogenous bases (A, U, G, and C), and a phosphate group.

## ~~6.10: Structure and Function of RNA - Chemistry LibreTexts~~

Rochester research into RNA structure and function provides key information for developing coronavirus treatments. Viruses like the coronavirus that causes COVID-19 are able to unleash their fury because of a devious weapon: ribonucleic acid, also known as RNA. A contingent of researchers at the University of Rochester study the

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RNA of viruses to better understand how RNAs work and how they are involved in diseases.

~~COVID-19: What's RNA research got to do with it?~~

Ribosomal RNA (rRNA) is the RNA component of a ribosome. Ribosomes are non-membranous organelles that participate in the translation of mRNA into a protein product. The ribosome structure is composed of 2 subunits.

~~RNAs, Structure and Function - WikiLectures~~

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Function As stated above the common cold virus, in our case here, rhinovirus uses its structure in order to properly attack the host cell. The virus will enter the body through typical means, when...

~~Common Cold Virus: Structure and Function | Study.com~~

Tools for RNA structure/function research. RNA structure is thought to play a central role in many cellular processes, including transcription initiation, elongation and termination, mRNA splicing, and retroviral infection of eukaryotic cells. Elucidating the mechanistic aspects of these intricate processes will require detailed

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understanding of the underlying RNA structure.

~~RNA Structure/Function Studies | Thermo Fisher Scientific | UK~~  
Cold-induced thermodynamic stabilization of RNA secondary structure inhibits normal RNA helix destabilizing mechanisms preventing proper RNA-protein interaction and subsequent RNA maturation or functioning.

~~RNA helicases and abiotic stress | Nucleic Acids Research ...~~  
RNA structure and function. Cold Spring Harbor, New York : Cold Spring harbor Laboratory Press, [1997] (OCoLC)645922440:  
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~~RNA structure and function (Book, 1997) [WorldCat.org]~~

The intrinsic secondary structure of RNA molecules is one such cis-acting feature. Secondary structure is the collection of intricate folding patterns that an RNA molecule forms through specific base pairing interactions encoded within its primary sequence [1–4].

~~Review: Genomic era analyses of RNA secondary structure ...~~

Escherichia coli CspA family of proteins consist of nine homologs to the major cold-shock protein CspA (CS7.4) (Phadtare et al., 1999) and they either function as a RNA chaperones by minimizing the secondary structure formation in mRNAs to allow efficient translation at low temperatures or as transcription regulators and transcription antiterminators (Bae et al., 2000).

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~~Structure and function of a cold shock domain fold protein ...~~

Recent transcriptome-wide studies on RNA structure have revealed its pervasive and crucial roles in RNA processing and functions, but whether and how RNA structure regulates the fate of the maternal transcriptome have yet to be determined.

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