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some RNA molecules are enzymes that carry out reactions that are at the core of information transfer from nucleic acid to protein. Clearly, the structures of DNA and RNA are richer and more intricate than was at first appreciated. Indeed, there is no one generic structure for DNA and RNA. As we shall see in this chapter, there are in fact vari-

CHAPTER 6 The Structures of DNA and RNA - Biology

nucleic acid, ribonucleic acid (RNA), which in turn directs the synthesis of the gene products, the specific proteins. This lecture introduces some basic concepts of DNA, proteins, genes and genomes. 2 The Nucleic Acids: DNA and RNA Each nucleic acid contains four types of base. DNA is made up of four similar

Basic Concepts of DNA, Proteins, Genes and Genomes

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Genetics, DNA, and Heredity

DNA stands for deoxyribonucleic acid, while RNA is ribonucleic acid. Although DNA and RNA both carry genetic information, there are quite a few differences between them. This is a comparison of the differences between DNA versus RNA, including a quick summary and a detailed table of the differences.

The Differences Between DNA and RNA - ThoughtCo

The main difference between DNA and RNA is the sugar present in the molecules. While the sugar present in a RNA molecule is ribose, the sugar present in a molecule of DNA is deoxyribose. Deoxyribose is the same as ribose, except that the former has one more OH. DNA does not usually exist as a single molecule, but instead as a tightly-associated pair of

DNA vs RNA - resources.saylor.org

DNA Structure 3' 5' 3' 5' Anti-parallel orientation A. The Concept DNA has a regular structure. It's orientation, width, width between nucleotides, length and number of nucleotides per helical turn is constant. All of these features were described by Watson and Crick. Adenine is always opposite thymine, and cytosine is always opposite guanine.

DNA Structure - NDSU

DNA, or deoxyribonucleic acid, is like a blueprint of biological guidelines that a living organism must follow to exist and remain functional. RNA, or ribonucleic acid, helps carry out this blueprint's guidelines. Of the two,

RNA is more versatile than DNA, capable of performing numerous, diverse ...

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