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web feb 2 2020 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 summary of differences between dna web dna deoxyribonucleic acid and rna ribonucleic acid are composed of two different classes of nitrogen containing bases the purines and pyrimidines the most commonly occurring purines in dna are adenine and guanine figure 1 2 1 purines the most commonly occurring pyrimidines in dna are cytosine and thymine figure 1 2 2 web dna and rna are polymers in the case of dna often very long polymers and are made up of monomers known as nucleotides when these monomers combine the resulting chain is called a polynucleotide poly many web jan 22 2021 dna vs rna function dna and rna molecules have different functions dna stores genetic information for the cell whereas rna codes for amino acids and acts as a messenger between dna molecules and the ribosomes replication dna molecules are self replicating whereas rna molecules are synthesized by a process called transcription web dna and ribonucleic acid rna are nucleic acids alongside proteins lipids and complex carbohydrates polysaccharides nucleic acids are one of the four major types of macromolecules that are essential for all known forms of life web dna and rna difference dna in cells dna deoxyribonucleic acid is the nucleic acid that functions as the original blueprint for the synthesis of proteins dna contains the sugar deoxyribose phosphates and a unique sequence of the nitrogenous bases adenine a guanine g cytosine c and thymine t web may 18 2023 rna abbreviation of ribonucleic acid complex compound of high molecular weight that functions in cellular protein synthesis and replaces dna deoxyribonucleic acid as a carrier of genetic codes in some viruses web dec 18 2020 dna consists of two strands arranged in a double helix these strands are made up of subunits called nucleotides each nucleotide contains a phosphate a 5 carbon sugar molecule and a nitrogenous base rna only has one strand but like dna is made up of nucleotides rna strands are shorter than dna strands web dna is the master blueprint for life and constitutes the genetic material in all free living organisms rna uses dna to code for the structure of proteins synthesized in cells and it is also the genetic material of certain viruses there are several chemical differences between the two structures web there are two differences that distinguish dna from rna a rna contains the sugar ribose while dna contains the slightly different sugar deoxyribose a type of ribose that lacks one oxygen atom and b rna has the nucleobase uracil while dna contains thymine unlike dna most rna molecules are single stranded and can adopt very

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