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feb 2 2020 rna is not stable under alkaline conditions plus the large grooves in the molecule make it susceptible to enzyme attack rna is constantly produced used degraded and recycled ultraviolet damage dna is susceptible to uv damage compared with dna rna

is relatively resistant to uv damage jan 26 2023 a nucleotide is the basic building block of nucleic acids rna and dna a nucleotide consists of a sugar molecule either ribose in rna or deoxyribose in dna attached to a phosphate group and a nitrogen containing base the bases used in dna are adenine a cytosine c guanine g and thymine t in rna the base uracil u takes the place of ribonucleic acid rna is a polymeric molecule essential in various biological roles in coding decoding regulation and expression of genes rna and deoxyribonucleic acid are nucleic acids along with lipids proteins and carbohydrates nucleic acids constitute one of the four major macromolecules essential for all known forms of life rna ribonucleic acid and

dna deoxyribonucleic acid are chemical compounds that are made by the body they can also be made in a laboratory rna and dna are sometimes used as medicine dec 14 2020 the us food and drug administration recently approved emergency use authorization for a covid 19 vaccine developed by pfizer and the german pharmaceutical company biontech the vaccine made history not only because it reported a 95 percent efficacy rate at preventing covid 19 in clinical trials but because it is the first vaccine ever approved dec 18 2020 deoxyribonucleic acid dna and ribonucleic acid rna are perhaps the most important molecules in cell biology responsible for the storage and reading of genetic information that underpins all life they are both linear polymers consisting of sugars phosphates and bases but there are some key differences which separate the two 1 the rna portion of at least one cellular rnp has been shown to act as a biological catalyst a function previously ascribed only to

proteins types and functions of rna of the many types of rna the three most well known and most commonly studied are messenger rna mrna transfer rna trna and ribosomal rna rrna which are present in all organisms these jan 25 2023 ribonucleic acid abbreviated rna is a nucleic acid present in all living cells that has structural similarities to dna unlike dna however rna is most often single stranded an rna molecule has a backbone made of alternating phosphate groups and the sugar ribose rather than the deoxyribose found in dna feb 2 2022 rna and dna each have a set of four bases adenine guanine cytosine and thymine for dna with uracil swapping in for thymine in rna deoxyribonucleic acid dna is a molecule you may already be familiar with it contains our genetic code the blueprint of life this essential molecule is the foundation for the central dogma of biology or the sequence of events necessary for life to function dna is a long double stranded molecule made up of bases located in the

cell s nucleus

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