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the mrna specifies in triplet code the amino acid sequence of proteins the code is then read by transfer rna trna molecules in a cell structure called the ribosome the order in which amino acids are joined together determine the shape properties and function of a protein the four bases of rna form a language with just four nucleotide bases adenine a cytosine c guanine g and uracil u the genetic code is read in three base words called codons rna carries genetic information that is translated by ribosomes into various proteins necessary for cellular processes mrna rrna and trna are the three main types of rna involved in protein synthesis while dna stores genetic information rna is involved in protein synthesis and gene regulation as well as storing genetic information in some viruses dna and rna also have different structures dna s phosphate sugar backbone contains deoxyribose while rna s contains ribose rna complex compound of high molecular weight that functions in cellular protein synthesis and replaces dna as a carrier of genetic codes in some viruses rna consists of ribose nucleotides and the nitrogenous bases adenine guanine cytosine and uracil the central dogma of molecular biology suggests that the primary role of rna is to convert the information stored in dna into proteins in reality there is much more to the rna story

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