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while dna is the genetic material for the vast majority of organisms there are some viruses that use rna as their genetic material these viruses can be either single or double stranded and include sars influenza hepatitis c and polio as well as the retroviruses like hiv aids

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you probably answered dna today it is commonly known that dna is the genetic material for a long time scientists knew such molecules existed they were aware that genetic information was contained within organic molecules however they didn't know which type of molecules play this role

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study with quizlet and memorize flashcards containing terms like any substance that acts as genetic material must accomplish 3 basis objectives what are they what are the three parts of dna what are the four types of nitrogen bases in dna and more

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a nucleotide is made up of a sugar deoxyribose a phosphate group and one of four nitrogenous bases adenine a thymine t guanine g or cytosine c c and t bases which have just one ring are called pyrimidines while a and g bases which have two rings are called purines

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the genetic hereditary material for all living things is composed of dna deoxyribonucleic acid the structure of dna must enable this substance to store coded information that control the biological function of cells

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in dna always forms hydrogen bonds with guanine g cytosine the sequence of carries the genetic information of an organism nucleotides chargaff s data states that the number of bases equals the number of pyrimidine bases in dna purine

dna definition discovery function bases facts structure *Sep 17 2023*

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 learn more about the differences between dna and rna

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biology definition genetic material is a cellular material that plays a fundamental role in determining the structure and nature of cell substances and is capable of self propagating and variation

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the field answers questions about how gene expression of one organism affects gene expression of another medical applications of ecological genomics will focus on how pathogens interact with specific individuals as opposed to humans in general

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dna questions google classroom the leading strand of a dna molecule has the following sequence 5' cgcatgtagcga 3' which of the following sequences is complementary to the leading strand shown above choose 1 answer 5' agcgatgtacgc 3' a 5' agcgatgtacgc 3' 3' agcgatgtacgc 5' b 3' agcgatgtacgc 5' 5' gcgtacatcgct 3' c 5' gcgtacatcgct 3'

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this set of class 12 biology chapter 6 multiple choice questions answers mcqs focuses on the genetic material is dna 1 what are the viruses that affect bacteria known as

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each nucleotide is composed of a nitrogenous base a five carbon sugar deoxyribose and a phosphate group there are four nitrogenous bases in dna two purines adenine and guanine and two pyrimidines cytosine and thymine a dna molecule is composed of two strands

genetic material properties and differences between dna and rna Mar 11 2023

what are the properties of genetic materials what is the difference between dna and rna let's discuss the answers to these questions genetic material dna is the main hereditary material but some contain rna too e.g. retrovirus rna mostly plays the role of a messenger in higher organisms

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mendelian genetics questions suppose a white furred rabbit breeds with a black furred rabbit and all of their offspring have a phenotype of gray fur what does the gene for fur color in rabbits appear to be an example of

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chapter 12 section 3 dna rna and protein in your textbook read about the central dogma of biology for each statement below write true or false
1 the central dogma of biology or the mechanism of reading and expressing genes in all living things can be expressed as follows
dna
rna
proteins
2

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class 12 biology dna vs rna genetic material properties Nov 07 2022

this set of class 12 biology chapter 6 multiple choice questions answers mcqs focuses on properties of genetic material dna versus rna
1 which of the following criterion needn't be fulfilled by the genetic material

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