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dna wikipedia

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deoxyribonucleic acid di:'ɒksɪ,rɑɪbɵʊnjuː,kli:ɪk ,kleɪ 1 dna is a polymer composed of two polynucleotide chains that coil around each other to form a double helix the polymer carries genetic instructions for the development functioning growth and reproduction of all known organisms and many viruses

dna definition discovery function bases facts

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dna organic chemical of complex molecular structure found in all prokaryotic and eukaryotic cells it codes genetic information for the transmission of inherited traits the structure of dna was described in 1953 leading to further understanding of dna replication and hereditary control of cellular activities

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definition deoxyribonucleic acid abbreviated dna is the molecule that carries genetic information for the development and functioning of an organism dna is made of two linked strands that wind around each other to resemble a twisted ladder a shape known as a double helix

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course mcat dna structure and function google classroom dna is the information molecule it stores instructions for making other large molecules called proteins these instructions are stored inside each of your cells distributed among 46 long structures called chromosomes

dna is a structure that encodes biological information

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what do a human a rose and a bacterium have in common each of these things along with every other organism on earth contains the molecular instructions for life called deoxyribonucleic

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deoxyribonucleic acid or dna is a biological macromolecule that carries hereditary information in many organisms dna is necessary for the production of proteins the regulation metabolism and reproduction of the cell

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dna or deoxyribonucleic acid is the hereditary material in humans and almost all other organisms nearly every cell in a person s body has the same dna most dna is located in the cell nucleus where it is called nuclear dna but a small amount of dna can also be found in the mitochondria where it is called mitochondrial dna or mtdna

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deoxyribonucleic acid more commonly known as dna is a complex molecule that contains all of the information necessary to build and maintain an organism all living things have dna within

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dna or deoxyribonucleic acid is a molecule found inside every cell in almost every living thing it helps cells make proteins which they need to survive and it facilitates reproduction

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dna stands for deoxyribonucleic acid and it s a molecule that supplies the genetic instructions that tell living creatures how to develop live and reproduce dna can be found inside every

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deoxyribonucleic acid dna is a molecule that contains the biological instructions that make each species unique dna along with the instructions it contains is passed from adult organisms to their offspring during reproduction

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about this unit this unit is part of the biology library browse videos articles and exercises by topic structure of dna dna nucleic acids discovery of dna dna as the transforming principle discovery of the structure of dna dna replication and rna transcription and translation telomeres and telomerase unit test

the structure and function of dna molecular biology of the

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a dna molecule consists of two long polynucleotide chains composed of four types of nucleotide subunits each of these chains is known as a dna chain or a dna strand hydrogen bonds between the base portions of the nucleotides hold the two chains together figure 4 3

dna explained structure function and impact on health

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dna is a biological molecule that contains the instructions an organism needs to function develop and reproduce it is present in all forms of life on earth and contains each organism s genetic

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the purpose of dna is to instruct organisms including humans on how to develop survive and reproduce in order for this to happen dna sequences known as genes are converted into proteins which are complex molecules responsible for carrying out most of the work in human bodies

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at the most basic level dna is wrapped around proteins known as histones to form structures called nucleosomes the dna is wrapped tightly around the histone core this nucleosome is linked to the next one by a short strand of dna that is free of histones

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11 1 dna structure and function our genetic information is coded within the macromolecule known as deoxyribonucleic acid dna dna belongs to a class of organic molecules called nucleic acids the building block or monomer of all nucleic acids is a structure called a nucleotide

what is dna summary structure and importance healthline

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dna or deoxyribonucleic acid is fundamental to your growth reproduction and health read about its basic function and structures

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dna is the hereditary material that contains the genetic code that makes up an organism explore more about dna its structure and functions at byju s

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all humans have the same genes arranged in the same order and more than 99.9% of our dna sequence is the same but the few differences between us all 1.4 million of them are enough to make each one of us unique on average a human gene will have 1.3 bases that differ from person to person

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