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Nucleic Acids In Chemistry And

Nucleic acid, naturally occurring chemical compound that is capable of being broken down to yield phosphoric acid, sugars, and a mixture of organic bases (purines and pyrimidines). Nucleic acids are the main information-carrying molecules of the cell, and, by directing the process of protein synthesis, they determine the inherited characteristics of every living thing.

nucleic acid | Definition, Function, Structure, & Types ...

To reflect the unusual sugar component, chromosomal nucleic acids are called deoxyribonucleic acids, abbreviated DNA. Analogous nucleic acids in which the sugar component is ribose are termed ribonucleic acids, abbreviated RNA. The acidic character of the nucleic acids was attributed to the phosphoric acid moiety. The two monocyclic bases shown here are classified as pyrimidines, and the two bicyclic bases are purines. Each has at least one N-H site at which an organic substituent may be ...

Nucleic Acids - Chemistry

Nucleic Acids The nucleic acids are informational molecules because their primary structure contains a code or set of directions by which they can duplicate themselves and guide the synthesis of proteins. The synthesis of proteins - most of which are enzymes - ultimately governs the metabolic activities of the cell.

Nucleic Acids - Chemistry LibreTexts

Nucleic acids are a family of macromolecules that includes deoxyribonucleic acid (DNA) and multiple forms of ribonucleic acid (RNA). DNA, in humans and most organisms, is the genetic material and represents a collection of instructions (genes) for making the organism. This collection of instructions is called the genome of the organism.

Nucleic Acids - Chemistry Encyclopedia - structure ...

Nucleic acids such as DNA (deoxyribonucleic acid) or RNA (ribonucleic acid) are composed of a sugar or derivative of a sugar (ribose or 2-deoxyribose), a nucleobase (cytosine, guanine, adenine, thymine, or uracil), and phosphoric acid and found in cell nuclei. A single-strand nucleic acid molecule is able to recognize and bind to its complementary strand in a sample, a property that can be used in developing a biosensor as gene probe.

Nucleic Acid - an overview | ScienceDirect Topics

The field of nucleic acid chemistry has exploded: natural and artificial functionalities, as well as probes, markers or other biologically active molecules, can be synthetically introduced into DNA (as well as RNA) by preparing the corresponding artificial DNA and RNA building blocks.

Nucleic acid chemistry - Beilstein-Institut

Nucleic Acids Book A free online book on the chemistry and biology of nucleic acids, written by Prof. Tom Brown and Dr Tom Brown (Jnr). The book is ideal for chemistry and biology students and also provides practical information for researchers working in the lab.

Nucleic Acids Book - Chemistry and Biology of Nucleic Acids

A nucleic acid is a chain of nucleotides which stores genetic information in biological systems. It creates DNA and RNA, which store the information needed by cells to create proteins. This information is stored in multiple sets of three nucleotides, known as codons. How Nucleic Acids Work

Nucleic Acid - Definition, Function and Examples | Biology ...

Protein and Nucleic Acid Chemistry Division. The objectives of the Division are to gain insights into human biology and disease at the molecular level with a view to developing strategies for diagnosis and treatment. Work in the Division focuses on biological processes central to immunity and cancer, and uses molecular, cellular and transgenic ...

Protein and Nucleic Acid Chemistry - MRC Laboratory of ...

Current Protocols in Nucleic Acid Chemistry is the comprehensive resource for detailed protocols related to the synthesis, modification, and analysis of modified and unmodified nucleosides, nucleotides, oligonucleotides, and nucleic acids. Online ISSN: 1934-9289

Current Protocols in Nucleic Acid Chemistry - Wiley Online ...

Nucleic acids are long-chain polymeric molecules. The monomer or the repeating unit is known as the nucleotides and hence sometimes nucleic acids are referred to as polynucleotides. Nucleic acids can be defined as organic molecules present in living cells. It plays a key factor in transferring genetic information from one generation to the next.

Nucleic Acids - Functions, Information & RNA & DNA Structure

Deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) are made up of nucleic acids found in the nuclei of living cells. They are the vehicles of genetic inheritance. Nucleic acids are condensation polymers of nucleotides.

Chemistry for Biologists: Nucleic acids

Nucleic acids are the biopolymers, or large biomolecules, essential to all known forms of life.The term nucleic acid is the overall name for DNA and RNA. They are composed of nucleotides, which are the monomers made of three components: a 5-carbon sugar, a phosphate group and a nitrogenous

base.If the sugar is a compound ribose, the polymer is RNA (ribonucleic acid); if the sugar is derived ...

Nucleic acid - Wikipedia

Enormous progress in understanding the strategies of nucleic acids catalysts has been made by providing thorough structural fundaments (e.g. first structure of a DNzyme, structures of ribozyme transition state mimics) in combination with functional assays and atomic mutagenesis. This article is part of the themed collection: Nucleic Acids

Fundamental studies of functional nucleic acids: aptamers ...

We report the development of a new strategy for the chemical analysis of live cells based on protein spherical nucleic acids (ProSNAs). The ProSNA architecture enables analyte detection via the highly programmable nucleic acid shell or a functional protein core.

Protein Spherical Nucleic Acids for Live-Cell Chemical ...

Nucleic acid samples are amplified in situ (sequencing by synthesis) followed by the sequencing-reaction chemistry used in the commercially available platform (e.g. 454, Illumina, Ion Torrent and Gene Reader). 1 NGS and emerging sequencing techniques like nanopore and single-molecule sequencing benefit enormously from the modification tolerance of polymerases 17 and developments in covalent labeling. 18

Covalent labeling of nucleic acids - Chemical Society ...

Nucleic Acids as therapeutics. (including antisense, RNAi, aptamers, immune recognition, cell delivery) RNA and DNA structures, their complexes and drug targets. (duplexes, quadruplexes, RNA and DNA enzymes, riboswitches, protein complexes + assemblies) Nucleic acids chemistry applied to cells and cell mechanisms.

Seventh Cambridge Sympoium - 2017

Organic chemistry has been central to this evolution, from enabling the affordable, custom synthesis of any DNA/RNA sequence, to the development of rapid and super-efficient methods to sequence DNA. This virtual issue seeks to highlight the frequently underestimated role of exciting chemistry underlying nucleic acid biology.