

Biochemistry Of Nucleic Acids

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Understanding biochemistry: structure and function of nucleic acids. Nucleic acids, deoxyribonucleic acid (DNA) and ribonucleic acid (RNA), carry genetic information which is read in cells to make the RNA and proteins by which living things function. The well-known structure of the DNA double helix allows this information to be copied and passed on to the next genera

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Nucleic acids Nucleic acids are formed by the combination of nucleotide molecules through sugar-phosphate bonds known as phosphodiester linkages. Because a nucleic acid is a polymer of many nucleotide molecules, DNA and RNA molecules are called polynucleotides. The structure of a polynucleotide is shown diagrammatically above.

~~The Structure and Function of Nucleic Acids~~

IMP, whose de novo biosynthesis we have just seen, is not a normal constituent of nucleic acids; it will be converted into adenylic and guanylic nucleotides, which are the major purine nucleotides found in ribonucleic and deoxyribonucleic acids. These transformations are diagrammatically depicted in figure 6-21.

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Abstract. Nucleic acids, deoxyribonucleic acid (DNA) and ribonucleic acid (RNA), carry genetic information which is read in cells to make the RNA and proteins by which living things function. The well-known structure of the DNA double helix allows this information to be copied and passed on to the next generation. In this article we summarise the structure and function of nucleic acids. The ...

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Nucleic Acid Biochemistry. The Nucleic Acid Biochemistry section contains posts/pages that discuss the basic biochemistry of nucleic acids, the biosynthesis and catabolism of the nucleotides, and the diseases that result as a result of defects in the enzymes of the pathways of nucleotide biosynthesis and catabolism.

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Denaturing nucleic acids . Figure 2.141 - The hyperchromic effect Wikipedia. Like proteins, nucleic acids can be denatured. Forces holding duplexes together include hydrogen bonds between the bases of each strand that, like the hydrogen bonds in proteins, can be broken with heat or urea.

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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.

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A nucleic acid contains three parts: a phosphate group, a sugar group (deoxyribose or ribose), and a base. The bases are adenine, guanine, cytosine, and thymine (uracil for RNA). When a base is attached to a sugar group it is called a nucleoside. The four nucleosides for DNA are deoxyadenosine, deoxyguanosine, deoxycytidine, and thymidine.

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The Biochemistry of the Nucleic Acids Reviews ` With its emphasis on the biochemistry that has led to so much of our knowledge of nucleic acids, this text is a valuable complement to other works that concentrate on the contribution made by more genetic approaches.

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Biochemistry of Nucleic Acids- 1978 The Biochemistry of the Nucleic Acids-R.L.P. Adams 2013-04-18 When the first edition of this book was published in 1950, it predated the publication of the double-helical structure of DNA by three years. It is not, therefore, surprising that nothing of the original book remains in the current edition.

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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.

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