

drug dna interactions structures pdf

The structures exhibit novel features not previously observed in crystals of DNA/drug complexes. The DNA helices stack in continuous columns with their central 4 bp adopting a B-like motif.

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The earliest research on DNA structure used optical spectroscopic methods, which are still used for studying drug-DNA interactions. By 1950, Maurice Wilkins and Ray Gosling began to study DNA structure using X-ray diffraction and obtained the first diffraction images of DNA fibers.

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Drug-DNA Interactions: Structures and Spectra. Find detailed information about X-ray crystallography, NMR spectroscopy, molecular modeling, and optical spectroscopy such as UV-Visible absorption, fluorescence, circular dichroism (CD), flow linear dichroism (FLD), infrared (IR) and Raman spectroscopy.

Drug-DNA Interactions: Structures and Spectra - Nakamoto

Masamichi Tsuboi studies DNA and RNA structures, drug-DNA interaction, protein conformation, protein-nucleic acid recognition, and virus structure using a variety of physicochemical and biomedical techniques including X-ray diffraction, UV-Visible, IR/Raman, and NMR spectroscopy.

Wiley: Drug-DNA Interactions: Structures and Spectra

DRUG/DNA INTERACTIONS AND CONDENSATION INVESTIGATED WITH ATOMIC FORCE MICROSCOPY A Dissertation Presented to The Academic Faculty by Elizabeth Deibler Gadsby In Partial Fulfillment Of the Requirements for the Degree Doctor of Philosophy in the School of Chemistry and Biochemistry Georgia Institute of Technology July 2004

DRUG/DNA INTERACTIONS AND CONDENSATION INVESTIGATED WITH

Drug-DNA interactions and their study by UV-Visible, fluorescence spectroscopies and cyclic voltametry Data (PDF Available) Â· July 2013 with 2,739 Reads Cite this publication

(PDF) Drug-DNA interactions and their study by UV-Visible

Interactions between proteins, drugs, water and B-DNA minor groove have been analyzed in crystal structures of 60 protein-DNA and 14 drug-DNA complexes. It was found that only purine N3, pyrimidine O2, guanine N2 and deoxyribose O4 are involved in the interactions, and that contacts to N3 and O2 are most

Protein and drug interactions in the minor groove of DNA

The present paper review the drug-DNA interactions, their types and applications of experimental techniques used to study interactions between DNA and small ligand molecules that are potentially of pharmaceutical interest. DNA has been known to be the cellular target for many cytotoxic anticancer agents for several decades.

Drug-DNA interactions and their study by UV-Visible

DNA-Drug Interaction. Transcription and replication are vital to cell survival and proliferation as well as for smooth functioning of all body processes. DNA starts transcribing or replicating only when it receives a signal, which is often in the form of a regulatory protein binding to a particular region of the DNA.

DNA Drug Binding - Supercomputing Facility for

Visualization of drug-nucleic acid interactions at atomic resolution. VIII. Structures of two ethidium/dinucleoside monophosphate crystalline complexes containing ethidium: cytidylyl(3'-5') guanosine. *J Biomol Struct Dyn.* 1984 Mar; 1 (5):1179-1194. Jain SC, Tsai CC, Sobell HM. Visualization of drug-nucleic acid interactions at atomic resolution.

DNA structure and perturbation by drug binding.

duplexes, DNA is prone to structural polymorphism and a number of alternative DNA structures have been described to date. DNA conformation may differ from a regular double-helix and may involve the association of more than two strands, leading to the formation of trip lexes and quadru-plexes. Alternative DNA structures offer significant differences in terms of electrostatics, shape and rigidity compared to single- or double-stranded DNA.

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