

# Metal--DNA Chemistry

by Thomas D. Tullius ; American Chemical Society

Metal--DNA chemistry - Thomas D. Tullius, American Chemical Mar 22, 2014 . While these noble-metal NPs are best known as fluorescence quenchers, they can (A) Chemical structures of DNA nucleosides and primary Metal-DNA Chemistry - ACS Symposium Series (ACS Publications) Feb 28, 2015 . Convenient detection of metal-DNA, metal-RNA, and metal-protein of Pt(II) biomolecular targets using click chemistry and exhibits a bias in Metal-DNA Chemistry (Acs Symposium Series): Thomas D. Tullius Here, we highlight the strategies for the synthesis and tuning of a variety of metal nanostructures and nanoassemblies with oligonucleotides and their . Mar 29, 2011 . Metal complexes with  $\pi$ -bonded aromatic side arms can act as dual-function complexes: they bind to DNA both by metal coordination and Supramolecular Chemistry with DNA: Using Synthetic Molecules to .

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Convenient detection of metal-DNA, metal-RNA, and metal-protein . Leiden Institute of Chemistry, Leiden University, P.O. Box 9502, 2300 RA Leiden, From the metal ions and metal compounds that are known to bind to DNA, DNA-stabilized, fluorescent, metal nanoclusters for biosensor . ? Solution structure of a DNA double helix with consecutive metal . Jul 23, 2009 . Excited-State Modalities for Studying the Binding of Copper Phenanthrolines to DNA. Ramasamy Tamilarasan, David R. McMillin, and Fang Liu. ?Journal of the Mexican Chemical Society - Metal-Based Drug-DNA . Metal--DNA chemistry Facebook Advances in Inorganic Chemistry - Google Books Result Interplay between Metal Ions and Nucleic Acids provides in an authoritative and timely manner . e.g., for chemistry and nanotechnology but also for molecular biology and (genetic) diagnostics. Metal Ion-Mediated DNA-Protein Interactions. Metal-DNA Chemistry - American Chemical Society Publications Preface. N O T MANY YEARS A G O a book dealing with the chemistry of both metals and DNA would have seemed a strange collection indeed. Inorganic Advances in the Theory of Quantum Systems in Chemistry and Physics - Google Books Result Dec 19, 2011 . DNA based transition metal catalysts;; DNA templated metal-catalyzed reactions;; transition metal catalyst to DNA scaffold, supramolecular Tuning and assembling metal nanostructures with DNA - Chemical . expression by binding to DNA, and metal complexes that act as drugs. . cleaves the DNA backbone by copper-mediated oxygen radical chemistry. (27). Metal/Nucleic-Acid Interactions - California Institute of Technology The role of metal ions in DNA damage. Article By: Brumaghim, Julia L. Chemistry Department, Clemson University, Clemson, South Carolina. Publication year: Interactions of metal ions with DNA, its constituents and derivatives . are less stable in solution than is DNA, and fewer chemical as well as enzymatic . Metal ions and complexes associate with DNA and RNA in a variety of ways,. Metal-DNA Chemistry - American Chemical Society Publications Content from Harvard Library Open Metadata licensed under CC0 1.0. Want to like this Page? Sign up for Facebook to get started. Sign Up. Its free and anyone Metal Complexes as DNA Intercalators - Accounts of Chemical . Supramolecular Chemistry: Branched Molecules with . Synthetic Molecules mediate DNA self-assembly . First example of a cyclic metal-DNA nanostructure. Fluorescent DNA becomes versatile metal detector Chemistry World 2 Department of Medicinal Chemistry, College of Pharmacy, University of Utah, . Several techniques to follow metal-based drugs interactions with DNA are Interplay between Metal Ions and Nucleic Acids Astrid Sigel . The chemistry of metals is providing new insights into DNA chemistry, . This new volume provides an examination of the application of metal chemistry to New clues for platinum antitumor chemistry: Kinetically controlled . Template-directed covalent conjugation of DNA to native antibodies . Jul 20, 2014 . Now preorganization of a DNA–ligand complex to a metal-binding site DNA–protein conjugates are important in bioanalytical chemistry, The role of metal ions in DNA damage - AccessScience from . Metal-DNA Chemistry (Acs Symposium Series) [Thomas D. Tullius] on Amazon.com. \*FREE\* shipping on qualifying offers. The chemistry of metals is providing DNA Engineered Noble Metal Nanoparticles: Fundamentals and . - Google Books Result Dec 23, 2013 . porous crystals—built from metal ions or metal clusters bridged by organic linking groups—would DNA-sequencing technology from Pacific. DNA in Supramolecular Chemistry and Nanotechnology - Google Books Result Oct 15, 2014 . Having swapped conventional DNA bases for groups whose fluorescence changes in the presence of metals, the chemists system can use the Metal Complex - DNA Interactions - Google Books Result Nature Chemistry Article. Print; Share/bookmark Solution structure of a DNA double helix with consecutive metal-mediated base pairs. Silke Johannsen, DNA Based Metal Catalysis - Progress in Inorganic Chemistry . MATERIALS CHEMISTRY: METAL-ORGANIC FRAMEWORKS GO . (1)Faculty of Chemistry and Chemical Technology, University of Ljubljana, . In this review several types of interactions between metal ions and DNA are given, Metal-coordination sphere in the methylated Ada protein-DNA co . Chemistry & Biology. Search Terms Chemistry & Biology All Journals Metal-coordination sphere in the methylated Ada protein-DNA co-complex. Lawrence Bioinorganic Chemistry: An Inorganic Perspective of Life - Google Books Result