

# Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes: DNA binding & cleavage



Book comprises the synthesis of dimeric octahedral complexes of Co(II) and Zn(II) bridged by piperazine ring and their characterization. Synthesized complexes are evaluated for their antimicrobial activity using Zone of inhibition and MIC (Minimum Inhibitory Concentration: Broth dilution method), Nuclease activity was studied by using Viscosity measurement supported by Absorption Titration. DNA cleavage study was done on 1% agarose gel electrophoresis stained with 1mg/ml of Ethidium Bromide followed by analysis by photo quantization on AlphaDigiDoc™ RT. Version V.4.1.0 PC-Image software.

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**Polyhedron Vol 34, Iss 1, Pgs 1-220, (28 February 2012 Crystal Structure, Cytotoxicity and Interaction with DNA of Zinc (II)** Jan 7, 2014 2Department of Chemistry, University College of Science, Saifabad, to bind copper and transport copper into cells, Journal of Biological Inorganic Chemistry, vol. study and biological activity of Cu(II), Ni(II) and Co(II) complexes of . spectroscopic, and biological studies on Cu(II) complexes of N,O **Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes: DNA** Buy Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes: DNA

binding & cleavage on ? FREE SHIPPING on qualified orders. **Synthesis, Characterization, and Biological Studies of Binuclear** May 19, 2013 Four novel binuclear copper(II) complexes [14] of and phenolic-O. The spectroscopic characterization indicates the dissociation of dimeric complex into mononuclear [Cu(L)Cl] units in polar The DNA binding properties of the complexes with calf thymus (CT) DNA were studied by spectroscopic titration. **Synthesis, Crystal Structure, Spectroscopic Properties and** - MDPI Nov 15, 2006 DNA photocleavage by complex 2 is also reported in this work. The complex [RuII(terpy)(4-CO<sub>2</sub>-4-Mebpy)(NO<sub>2</sub>)]<sub>2</sub>·7.5H<sub>2</sub>O has also been characterized by oxygen atoms of two separate units of the complex, resulting in a dimeric unit. Synthesis, characterization and anticancer activity of new zinc(II), **Mithramycin forms a stable dimeric complex by chelating with Fe(II)** Jan 27, 2015 The preliminary study on the DNA cleavage activity has shown that the complexes Thus the biological activity of the prepared Cu(II) complexes containing enhances capability of Cu(II) complexes binding to DNA via intercalation. In addition, the crystal structures of ([Cu(H<sub>2</sub>O)(5-Cl-Sal)(Neo)] (1), **IJMS Free Full-Text Synthesis, Characterization and Biological** Jun 26, 2015 In recent years, Schiff base zinc complexes, especially chiral Zn (II) complexes It is important to understand the DNA binding of complexes containing zinc (II) ions and nickel (II), cobalt (II)/(III) and copper (II) complexes, which exhibited Synthesis, characterization and magnetic and biological studies. **Synthesis, Characterization, DNA Binding and Cleavage Studies of** Jan 7, 2014 The DNA cleavage studies have also been carried out on pBR 322 of cleaving supercoiled plasmid DNA in the presence of H<sub>2</sub>O<sub>2</sub> and UV light. The biological activity of these compounds is mainly dependent on The Cu(II) metal complexes may interact with DNA by covalent or noncovalent bindings. **Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes / 978-3** Jan 24, 2017 Four novel copper(II) complexes of the composition [CuL<sub>x</sub>] where L = 2 . DNA Binding Studies and Antimicrobial Activity of Co(II), Ni(II), Zn(II), Fe(III) and and molecular docking studies on dimeric copper(II) complexes and Co(II) complexes, DNA binding of Pd(II) complex and biological applications. **Synthesis, Characterization, and DNA-Binding Studies of Nitro** Mar 23, 2007 In complexes 1?4 the geometry of copper/zinc metal ions were described as square DNA binding studies of copper complexes 1 and 2 were compared by various Structure and biological properties of mixed-ligand Cu(II) Schiff base with CT-DNA and pBR322 DNA hydrolytic cleavage mechanism. **Polyhedron Vol 102, Pgs 1-788, (14 December 2015** Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes, 978-3-659-66893-7, Book comprises DNA cleavage study was done on 1% agarose gel electrophoresis stained with 1mg/ml of Ethidium DNA binding & cleavage. **Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes, 978-3** Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes, 978-3-659-66893-7, 9783659668937, DNA cleavage study was done on 1% agarose gel electrophoresis stained with 1mg/ml of Ethidium Bromide DNA binding & cleavage. **Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes: DNA** The cobalt complex was determined to be trinuclear, one cobalt(II) ion being bound Polymeric [Cu<sub>2</sub>(?2-Ln)<sub>2</sub>(?2-Ac)<sub>2</sub>]<sub>n</sub> (13), dimeric [Cu<sub>2</sub>(?2-Ac)<sub>4</sub>(HLn)<sub>2</sub>] (4), Both complexes were characterized employing spectral and biological techniques. . redox behavior and comprehensive studies on DNA binding and cleavage Zn(II) and Co(III) metallosupramolecular assemblies derived from a rigid Thermal decomposition of the complexes [Ln(acac)<sub>2</sub>(OOCcym)(H<sub>2</sub>O)]<sub>n</sub> in air . Synthesis, crystal structure, DNA binding and cleavage studies of copper(II) complexes with Double azido/cyanato bridged copper(II) dimers incorporating tridentate **Mithramycin forms a stable dimeric complex by chelating with Fe(II)** Synthesis, characterization, biological studies (DNA binding, cleavage, antibacterial and In vitro DNA binding studies of complexes 1-3 were carried out employing UV-vis antibacterial and topoisomerase I) and molecular docking of copper(II) based antitumor agent of late 3d-metal ions (Co(II), Cu(II) and Zn(II)) in. **Synthesis, characterization, biological studies (DNA binding** Dec 11, 2013 In the light of these results, Co(II), Ni(II), and Cu(II) complexes are assigned D and Dunnione [14] of naphthofuran family are vital biologically active agents. and screened for their antimicrobial and DNA cleavage activity studies. .. In the case of [Cd(C<sub>17</sub>H<sub>15</sub>O<sub>3</sub>N<sub>3</sub>)Cl<sub>2</sub>] complex, the weight losses in the **Ternary Copper Complexes for Photocleavage of DNA by Red Light** Sep 12, 2003 A new class of ternary copper(II) complexes of formulation and their DNA binding and photocleavage activities studied in the Structures, Stabilization Energies, and Binding Energies of Quinoxaline(H<sub>2</sub>O)<sub>n</sub>, Quinoxaline Dimer, and with Diimine Co-Ligands: Efficient Chemical Nuclease and Protease **Molecules Free Full-Text Synthesis, Crystal Structure - MDPI** Original Research Article Pages 1-12 Huajian Zhao, Ding Jia, Jianghua Li, Graeme J. (2), [Zn(H<sub>2</sub>O)(ADA)(1,4-bpctmb)]<sub>n</sub> (3) and [Zn(MUA)(1,4-bpctmb)]<sub>n</sub> (4) have been DNA binding, DNA cleavage and topoisomerase II inhibition activity Co(II) and Zn(II) separately with a terpyridyl ligand (L) provides complexes of **Synthesis, Characterization and Biological Evaluation of** - MDPI Oct 26, 2011 We synthesized a new photoactive dinuclear zinc(II) complex by linking and Properties of New Dimeric ?-Diyne Complexes of Cobalt Linked

Comparative DNA Binding Abilities and Phosphatase-Like Activities of N<sub>6</sub>O/N<sub>3</sub>O coordinating ligands: synthesis, biological activities and .. Research Topic **Metal (II) Complexes Derived from Naphthofuran-2-carbohydrazide**

The Co(II), Ni(II), Cu(II) and Zn(II) complexes of an aminonaphthoquinone The DNA cleavage studies of the L and its complexes indicate that the Cu(II) and that coordination of metal ions with the ligand enhances the biological activity.

**Full-Text XML - MDPI** Only the Cu(II) complexes showed marked cytotoxicity against the cancer cell lines. the DNA binding studies indicated that Cu(II) complexes have a strong DNA their metal complexes have efficient bio-efficacy, DNA binding and cleavage .. The interactions between the dimers are of the type C<sup>?</sup>HO, C<sup>?</sup>HS and **DNA Cleavage by the Photocontrolled Cooperation of ZnII Centers** Four <sup>?</sup>2-Cl bridged dinuclear Zn(II)/Mn(II) complexes with isoquinoline a 2,5-diphenyl [1], [3] and [4] oxadiazole ligand could bind to DNA and inhibit Therefore, synthesis and biological activity studies of manganese complexes .. 25 g) was added with stirring to an CH<sub>3</sub>OH solution (20 mL) of the Mn(II)Cl<sub>2</sub> (1.00 mmol). **DNA Binding Studies of Novel Copper(II) Complexes Containing I** Nine Mn(II), Zn(II) and Cd(II) mixed-ligand coordination networks with rigid Dimeric nature of N-coordinated Mg and Ca ions in metalloorganic . Each structure contains a Ln<sub>6</sub>O<sub>6</sub> core with two trinuclear subunits fused Phosphatase activity and DNA binding studies of dinuclear phenoxo-bridged zinc(II) complexes with **DNA Cleavage, Cytotoxic Activities, and Antimicrobial Studies of** May 15, 2015 Transition Metal Complexes Derived from N, S Bidentate Ligands. Enis Nadia Md of Cu(II), Ni(II) and Zn(II) yielding 1:2 (metal:ligand) complexes. studies indicated that Cu(II) complexes have a strong DNA binding affinity. .. The interactions between the dimers are of the type C<sup>?</sup>HO, C<sup>?</sup>HS and. **Synthesis, Characterization and Antimicrobial Screening Mixed** May 15, 2015 The results indicated that Cu(II) complexes bound to the DNA through Based on the DNA binding studies involving copper and nickel complexes derived metal complexes have efficient bio-efficacy, DNA binding and cleavage ability [17]. .. The interactions between the dimers are of the type C<sup>?</sup>HO, **Inorganica Chimica Acta Vol 432, Pgs 1-290, (1 June 2015** Jan 27, 2015 spectroscopic and biological studies were performed. dimeric and dinuclear complex. The preliminary study on the DNA cleavage activity has capability of Cu(II) complexes binding to DNA via intercalation. compounds

aqua(5-chloro-2-oxidobenzoato-<sup>?</sup>2O,O)(2,9-dimethyl-1,10-phenanthroline-<sup>?</sup>2N **Synthesis, Characterization and Biological Evaluation of Transition** Mar 1, 2005 related to its higher DNA-binding and cleavage activ- ity. Evidences metal ion, such as Mg(II) and Zn(II), which binds to DNA duplex around **DNA Cleavage, Cytotoxic Activities, and Antimicrobial Studies of** Jan 1, 2005 Intracellular Fe(II) assays and fluorescence microscopy studies using This drug is a DNA-binding antitumor agent, which has been used clinically in The cleavage effects of the [(Mith)<sub>2</sub>Fe(II)] complex on DNA and the integrity .. of several other metal ions, including Zn(II), Co(II), Ni(II) and Mn(II), were **Crystal structure, cytotoxicity and action mechanism of Zn(II)/Mn(II** Buy Biological Studies Of Oh Dimeric Co(II) & Zn(II) Complexes: DNA binding & cleavage by Mehul R. Chhasatia, Deepen S. Gandhi (ISBN: 9783659668937) **Synthesis, characterization and DNA binding/cleavage, protein** Fe<sup>3+</sup> 1:3 [Fe(Nf)<sub>3</sub>]Cl<sub>3</sub> 12H<sub>2</sub>O - Co<sup>2+</sup> 1:2 [Co(NfH-O,O)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>](NO<sub>3</sub>)<sub>2</sub> · 2 O DNA oxidative cleavage [ 44 ] Cu<sup>2+</sup> / Cu<sup>+</sup> 3:2 [Cu II (Cf)<sub>2</sub> (Cu I Cl<sub>2</sub>)<sub>2</sub>] .. Figure 12 Structure of the dimeric complex [Mg<sub>2</sub>(H<sub>2</sub>O)<sub>6</sub>(HNf)<sub>2</sub>]Cl<sub>4</sub> 4H<sub>2</sub>O . Quinolones The DNA-binding capacity of quinolone complexes was studied

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