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METAL-BASED DRUGS

Volume 8

Issue 3

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May - June 2001

Metal-Based Drugs, 8 (2001), 119 - 124 ACTIVITY OF Pt(II) AND Ru(III) TRIAZOLOPYRIMIDINE COMPLEXES AGAINST PARASITES OF THE GENUS LEISHMANIA, TRYPANOSOMAS AND PHYTOMONAS

Juan M. Salas*,¹ Miguel Quirós,¹ Mohammad Abul Haj,¹ Rosa Magán,² Clotilde Marín,² Manuel Sánchez-Moreno² and René Faure³

^{1,2} Universidad de Granada. 18071 Granada, Spain
³ Université Claude Bernard Lyon 1, 69622 Villeurbanne, France

The synthesis and characterization of two Pt(II) complexes with the isomeric ligands 4,5-dihydro-5-oxo-[1,2,4]triazolo-[1,5-a]pyrimidine (5HtpO) and 4,7-dihydro-7-oxo-[1,2,4]-triazolo-[1,5-a]pyrimidine (7HtpO) are described, as well as a Ru(III) complex, with 7HtpO. The crystal structure of cis-[PtCl.(7HtpO)].2H_O has been solved by X-ray diffraction analysis. In vitro activity of the new isolated complexes against the epimastigote form of T. cruzi, procyclic form of T. b. brucei and promastigote form of L. donnovani and P. characias has also been studied. The three complexes markedly affect the growth of the parasites and none of them shows cytotoxicity against macrophage of the J774.2 line at the heaviest dosages used.

Metal-Based Drugs, 8 (2001), 125 - 136 INTERACTION OF RUTHENIUM(II)-DIPYRIDOPHENAZINE COMPLEXES WITH CT-DNA: EFFECTS OF THE POLYTHIOETHER ANCILLARY LIGANDS

Teresa M. Santos^{*1}, João Madureira¹, Brian J. Goodfellow¹, Michael G. B. Drew², Júlio Pedrosa de Jesus¹, and Vitor Félix¹

¹Department of Chemistry, University of Aveiro. Campus Universitário de Santiago, 3810-193 Aveiro, Portugal, teresa@dg.ua.pt ²Department of Chemistry, The University. Whiteknights, Reading, RG6 6AD, UK

The complexes [Ru([9]aneS₂)(dppz)Cl]Cl 1 and [Ru([12]aneS₂)(dppz)]Cl₂ 2 ([9]aneS₃=1,4,7-trithiaciclononane and [12]aneS₃=1,4,7,10-tetrathiaciclododecane) were synthesised and fully charac-terised. These complexes belong to a small family of dipyridophenazine complexes with non-polypyridyl ancillary ligands. Interaction studies of these complexes with CT-DNA (UV/Vis titrations, steady-state emission and thermal denaturation) revealed their high affinity for DNA. Intercalation constants determined by UV/Vis titrations are of the same order of magnitude (10⁶) as other dppz metallointercalators, namely [Ru(II)(bpy)₂dppz]²⁺. Differences between 1 and 2 were identified by steady-state emission and thermal denaturation studies. Emission results are in accordance with structural data, which indicate how geometric distortions and different donor and/or acceptor ligand abilities affect luminescence. The possibility of non-covalent interactions between ancillary ligands and nucleobases by van der Waals contacts and H-bridges is discussed. Furthermore, complex 1 undergoes aquation under intra-cellular conditions and an equilibrium with the aquated form 1' is attained. This behaviour may increase the diversity of available interaction modes.



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Metal-Based Drugs, 7 (2000), 159 - 164 CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF **ERBIUM(III) COMPLEXES**

S. B. Jagtap¹, N. N.Patil^{*2}, B. P.Kapadnis^{*2} and B. A. Kulkarni¹

University of Pune, Pune - 411 007. India ¹Department of Chemistry ²Department of Microbiology <bpkap@unipune.ernet.in>

Erbium(III) metal complexes of 2-hydroxy-1,4-naphthoquinone-1oxime and their C-3 substituted derivatives were synthesized. The complexes were characterized by melting point, elemental analysis, IR and ¹HNMR spectroscopy and magnetic susceptibility. The antimicrobial activity of these complexes was determined by well diffusion method against the target microorganisms, Staphylococcus aureus, Xanthomonas campestris, Pseudomonas aeruginosa, Candida albicans and Aspergillus niger. The antimicrobial activity of ligands and their complexes was compared. It was seen that the ligands are more antifungal than antibacterial and the antimicrobial activity of the ligands reduced on complexation with erbium(III).



Metal-Based Drugs, 7 (2000), 165 - 169 SSYNTHESIS, CHARACTERIZATION AND IN VITRO ANTIFUNGAL EF-FECT OF SOME BUTYLTIN(IV) N-SUBSTITUTED 2-AMINOETHANETHIOLATES

A. Smicka¹, V. Buchta² and K. Handlir*¹

¹ Department of General and Inorganic Chemistry, Faculty of Chemical Technology, University of Pardubice, nam. Cs. Legii 565, 532 10 Pardubice, Czech Republic <ales.smicka@upce.cz>, <karel.handlir@upce.cz>
² Department of Biological and Medical Sciences, Faculty of Pharmacy, Charles University, Heyrovskeho 1203, 500 05 Hradec Kralove, Czech Republic <buchta@faf.cuni.cz>

Six new *N*-substituted di- and tributyltin cysteaminates (2-aminoethanthiolates) have been prepared and characterised by ¹H, ¹³C and ¹¹⁹Sn NMR spectroscopy. All these compounds exhibit a considerable *in vitro* fungicidal activity against se-lected types of fungi (*Candida albicans, Candida krusei, Candida tropicalis, Candida glabrata, Trichosporon beigelii, Aspergillus fumigatus, Absidia corymbifera, Trichophyton mentagrophytes*). This activity is comparable to the commonly used drugs. The relationship between structure and fungicidal activity is discussed.



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Metal-Based Drugs, 7 (2000), 171 - 177 **COPPER(II) ACYLHYDRAZINATES.**

THEIR SYNTHESIS AND CHARACTERIZATION

Zahid H. Chohan*¹, M. A. Farooq¹ and Claudiu T. Supuran²

¹Department of Chemistry, Islamia University, Bahawalpur, Pakistan ²Laboratorio di Chimica Inorganica e Bioinorganica, Universita degli Studi, Via Gino Capponi 7, I-50121, Firenze, Italy

Acylhydrazine derived furanyl and thienyl Schiff bases and their Cu(II) complexes have been prepared and characterized on the basis of their physical, spectral and analytical data. The preferred enolic form of the Schiff base function as a tetradentate ligand during coordination to the metal ion yielding a square planar complex. The Schiff bases and their complexes with dif-ferent anions were tested for their antibac-terial activity against bacterial species such as Escherichia coli, Staphylococcus aureus, Pseudomonas aeruginosa and Klebsiella pneumonae..



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