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64650	International Journal of Scientific Research and Review	UNIV	Science	[S.l.] [s.n.] 2012, 2012	2279543X		India
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64663	Journal of Water Research	UNIV	Science	Netherlands Publisher: Elsevier	00431356		Netherlands
64664	Journal of Current Science	UNIV	Science	Indian academy of Science	9726001X		India
64666	Indian Journal of Gynecologic Oncology	UNIV	Science	Springer	23638397		India
64667	karbala international journal of modern science	UNIV	Science	Elsevier	2405609X		Iraq
64669	Asia Pacific Language Variation	UNIV	Arts & Humanities	John Benjamins, New York/ Amsterdam	22151354		United States
64671	Global Journal of Business Research	UNIV	Social Science	Institute for Business and Finance Research, LLC.	19310277	21570191	United States
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Synthesis Characterization and biological applications of some Heterocyclic molecules of Transition metal complexes.

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Abstract: *Heterocyclic molecules of Di alkyl and methoxy benzaldehyde substituted benzimidazole derivatised 8-hydroxyquinoline and transition metal complexes of Cu(II), Co(II),Ni(II) and Zn(II) Have been prepared by conventional melt condensation method and all these synthesized ligands and complexes characterized by spectral and physicochemical methods of NMR, IR, MASS ,Uv - VISIBLE and elemental analysis.*

Keywords: benzaldehyde substituent's, melt condensation, benzimidazole, 8-hydroxyquinoline.

Introduction

Heterocyclic compounds are acquiring more importance in recent years as these can be found in a large number of compounds which display biological activity. Heterocyclic compounds particularly five and six member heterocycles have attracted the attention of pharmaceutical community over the years due to their therapeutic value. The history of heterocyclic compounds was aged in the field of pharmaceutical as well as biological activity.'Mannich

bases having N and O donor atoms have been shown to possess a wide spectrum of biological activities and physicochemical properties. Benzimidazole derivatives occupied a major part in the field of pharmaceutical chemistry and very important field of heterocyclic compounds[1-2].The benzimidazole nucleus moiety is existing in many Benzimidazole compounds are consider a promising field of bioactive heterocyclic compounds, Specifically this nucleus is constitution of vitamin-B12[3]. Mannich reaction is a carbon-carbon bond forming nucleophilic addition reaction and is a key step in synthesis of a wide variety of natural products, pharmaceuticals, and so forth. Mannich reaction is important for the construction of nitrogen containing compounds. There is a number of amino alkyl chain bearing Mannich bases like fluoxetine, atropine, etacrynic acid, trihexyphenidyl, and so forth with high curative value. The literature studies enlighten the fact that Mannich bases are very reactive and recognized to possess potent diverse activities like anti-inflammatory, anticancer, antiflarial, antibacterial, antifungal, anticonvulsant, anthelmintic, antitubercular, analgesic, anti-HIV, ant malarial, antipsychotic, antiviral activities and so forth[4]. Schiff base hold a major part in the field of pharmaceutical research due to their high biological activity. Thus, numerous attempts to develop and design of new Schiff base still arouse interest of pharmaceutical and medicinal researchers [5].] Schiff bases of benzimidazole have been reported with remarkable antibacterial [6], antimicrobial [7] and ant proliferative [8] activities. In addition to their biological importance, benzimidazole form stable complexes with various transition metals. The history of heterocyclic compounds was aged in the field of pharmaceutical as well as biological activity [9]. In coordination chemistry of transition metals, metal

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