

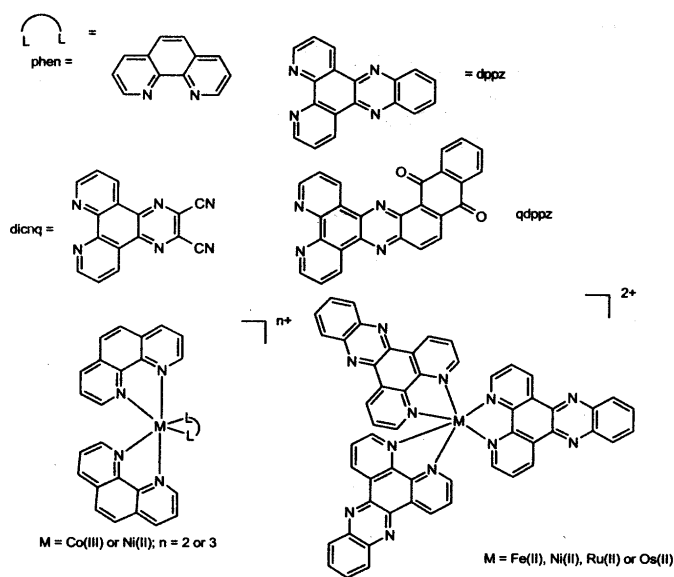
Synthesis and DNA-interactions of new Co(III), Fe(II), Ni(II), Ru(II) and Os(II) complexes of modified phenanthroline ligands

C V SASTRI, D EASWARAMOORTHY #, ATHILAKSHMI #,
L GIRIBABU and B G MAIYA

School of Chemistry, University of Hyderabad, Hyderabad 500 046, India

#Present address: Crescent Engineering College, Vandalur, Chennai 600 048,
India

Metal complexes of the type $[M(LL)_3]^{n+}$, where LL is either 1,10-phenanthroline (phen) or a modified phen, are particularly attractive species for developing new diagnostic and therapeutic agents that can recognise and cleave DNA. The ligands or the metal in these complexes can be varied in an easily controlled manner to facilitate an individual application thus providing easy access to the understanding of details involved in DNA-binding and cleavage. Previously, we have reported the design, synthesis and DNA interactions of a few mixed-ligand complexes of the type $[M(phen)_2(LL)]^{n+}$. In this paper, we present results of analogous studies carried out with new complexes, the structures of which are shown below.



References

1. Arounagui S and Maiya B G 1999 *Inorg. Chem.* **38** 842