

Synthesis, Characterization of novel metal complexes and study of their therapeutic effects

Transition metal complexes have a very important role to play in medicinal chemistry. Various metal complexes are synthesized and their utilization as drug in the treatment of several diseases such as carcinomas, lymphomas, infection control, anti-inflammatory, diabetes, and neurological disorders have been reported. Transition metals exhibiting different oxidation states are capable of interacting with large number of molecules and biological components. Hence it is important to develop and study potentially active sites for the development of metal-based drugs aiming at having promising pharmacological applications with minimal toxicity and high therapeutic values. It is in this aspect the work is designed to carry out the synthesis of metal incorporated biologically active components in order to achieve non-toxic and highly efficient therapeutic agents for the benefit of the human community.