Synthesis and evaluation of some antimicrobial metal complexes

Lec.Azhar Mahdi Jasim, Marwa Hesham 2019

Research has shown significant progress in utilization of metal complexes as drugs to treat several human diseases. Transition metal complexes have attracted attentions of inorganic, metallo-organic as well as bio-inorganic chemists because of their extensive applications in wide ranging areas from material to biological sciences. Generally, drug combinations have proven to be an essential feature of antimicrobial treatment. Synthesis and evaluation of some antimicrobial metal complexes were found to be much better than free antimicrobial agents and metal salts. Various biological aspects of the metal based drugs/ligands entirely depend on the ease of cleaving the bond between the metal ion and the ligand. The pharmacological activity of metal complexes is highly dependent on the nature of the metal ions and the donor sequence of the ligands because different ligands exhibit different biological properties.