

Special Issue

Evaluation of the Potential Biological Activity of Metallo-Drugs

Message from the Guest Editors

Until now, cisplatin, a platinum(II) complex which is an indispensable part in the therapy of various types of tumors, has demonstrated most success. However, serious side effects and drug resistance during its application limit the clinical use of cisplatin, leading many scientists to design new platinum complexes that are structurally similar to cisplatin. Today, research is directed toward complexes of ions of other transition metals such as palladium(II), gold(III), ruthenium(II), osmium(II), rhodium(III), copper(II), etc. In order to evaluate potential antitumor activity, selectivity of action and toxicity of metallo-drugs, it is necessary to examine the kinetics and mechanism of their reactions with DNA segments, as well as with DNA molecules themselves. Thus, the study of interaction between transition metal complexes and serum albumin proteins can provide useful information about the therapeutic efficiency of the drug. In this Special Issue, we wish to publish the latest developments in the design of transition metal-based compounds and their potential clinical applications through original research articles and short critical reviews.

Guest Editors

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