Special Issue

Synthesis, Characterization and Biological Evaluation of Metal Complexes

Message from the Guest Editors

Since the first recognition of cisplatin as an effective anticancer agent, the interest in metal-based drug design has widely increased. Nowadays, bioactive metal complexes represent a promising and rapidly evolving area of pharmacotherapy. Metal complexes have demonstrated manifold biological activities, including antitumor, antimicrobial, anti-inflammatory, antiinfective, and antiparasitic effects. Metal complexes are also considered to be potential therapeutic agents for Alzheimer's disease. Metallodrugs exhibit many unique properties as compared to purely organic substances. stemming from the presence of the metal atom and the variable arrangement of ligands around this central atom. The unique properties of metal complexes enable them to exert a variety of mechanisms in their interactions with living organisms. This Special Issue is focused on new trends in design, synthesis, biological activities, and the target of action of metal complexes.

Guest Editors

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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