Special Issue

New Trends in Developing Complexes as Biological Active Species II

Message from the Guest Editor

The diseases evolution makes classical organic drugs ineffective in most cases. Several strategies were developed in order to find new effective species for treatment, that take into account the complexes, especially those bearing transition metal ions and multidentate ligands. Some species of this type were developed in recent years as valuable antitumor, antimicrobial, anti-inflammatory, anti-infective, or antiparasitic agents, effective both in vitro and in vivo. Important aspects that need to be clarified in the development of such compounds as drugs are the interaction with serum and cytoplasmic bio-species, as well as with the target sites, which most often are DNA and enzymes. As a result, this Special Issue will cover complex aspects concerning the design, synthesis, characterisation and in vitro or in vivo assay of various complexes developed as potential biological active species. **Keywords:** complex; transition metal ion; chelate ligand; antimicrobial; biofilm; antiproliferative activity; multi-resistant strains; biomolecule interaction; in vitro assay; in vivo assay; metallo-nuclease activity; docking simulation

Guest Editor

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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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