Special Issue

Synthesis, Characterization and Anticancer Activities of Metal Complexes

Message from the Guest Editor

In recent years, this field has witnessed remarkable progress. Many rationally designed metal complexes have demonstrated excellent anticancer profiles across a variety of cancer cell lines. In-depth biological studies have shed light on diverse cell death mechanisms and emphasized the essential role of the metal center in these processes. One particularly promising area of advancement is the development of multimetallic complexes, which incorporate two or more metal atoms in well-defined structures, often bridged by coordinating ligands. These complexes offer the potential for synergistic effects and enhanced selectivity, with designs tailored to specifically target cancer cells while sparing healthy ones.

A future direction with significant promise is the translation of in vitro findings into in vivo studies using animal models—an important step toward preclinical development. We warmly invite submissions of original research articles and reviews that fall within the scope of this exciting and evolving field. We look forward to your contributions and to highlighting the latest developments in this area.

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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