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Target-Specific Delivery of Gold and Ruthenium Complex to Cancer Cells: Where Are We?

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Deadline for manuscript submissions:
closed (31 May 2023)

Message from the Guest Editors

Cancer is the second leading cause of death worldwide, and it is expected that in 20 years, there will be ~26 million new cancer cases. Despite the progress made in the last few years, cancer treatment, mainly focused on radiation therapy and chemotherapy, presents low therapeutic indices and a wide spectrum of severe side-effects, in part due to the little or no selectivity of drugs for cancer cells over nontumoral cells. Therefore, the need for alternative therapeutic options with improved selectivity is critical.

Following the clinical success achieved with platinum complexes, the search for metallodrugs with improved therapeutic properties has been extremely active within the bioinorganic/organometallic chemistry community. Among the large number of metal complexes with considerable anticancer properties, gold and ruthenium complexes are amongst the most promising alternatives. Nevertheless, this topic still remains a challenge to all scientists, especially those involved in the design of innovative metal-based target specific agents.

We welcome submissions dealing with advancements and challenges of metallodrug discovery for cancer treatment.

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Message from the Editor-in-Chief

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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