

Special Issue on
Applications of Bioorganometallics in Diagnosis and Therapy

CALL FOR PAPERS

Although the majority of drugs are purely organic, the use of metal complexes for therapy and diagnosis has gained interest, with an increase in their clinical and commercial application. The term bioorganometallic chemistry was applied to the development of organometallic complexes with biological and medical interest in 1985. It includes organometallic complexes containing classical ligands such as CO, alkyls, and heteroaromatic ligands or biomolecules such as peptides, amino acids, steroids, and antibodies that play important roles in various biological processes and modulate their activity. This class of compounds has a great structural diversity, a far more diverse stereochemistry than organic compounds, and a variety of binding modes and redox properties that provide control of kinetic properties such as hydrolysis rate of ligands. Brought together these features pave the way towards new opportunities in the design of novel classes of effective compounds for medical applications.

This special issue aims to attract the submission of original research and review articles reporting on recent advances and developments in the field of bioorganometallic chemistry and biomedical applications. Articles that highlight the use of Ru, Fe, Co, and Ti complexes as prospective anticancer agents and emerging radiometal complexes as target-specific theranostic agents are of particular interest.

Potential topics include but are not limited to the following:

- ▶ Design and synthesis of organometallic complexes as anticancer, antimicrobial, antiparasitic, antiviral, and antidiabetic agents
- ▶ Organometallic complexes for targeted therapy
- ▶ Organometallic complexes for imaging or theranostic applications
- ▶ Interaction of complexes with DNA, proteins, and enzymes
- ▶ Mechanism of drug action
- ▶ Pharmacological characteristics of bioorganometallic complexes

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/jchem/medicinal.chemistry/redba/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Tânia S. Morais, University of Lisbon,
Lisbon, Portugal
tsmorais@fc.ul.pt

Guest Editors

Dinorah Gambino, Universidad de la
República, Montevideo, Uruguay
dgambino@fq.edu.uy

João Galamba Correia, University of
Lisbon, Lisbon, Portugal
jgalamba@ctn.tecnico.ulisboa.pt

Submission Deadline

Friday, 22 February 2019

Publication Date

July 2019