

Special Issue on **Genomic Approaches to Bioinorganic Medicinal Chemistry**

CALL FOR PAPERS

Bioinorganic medicinal chemistry has become a central field of study in both chemistry and biomedical sciences, mainly related to the therapeutic and diagnostic applications of metal complexes and other inorganic molecules with biological activity. It is thus important to consider the role that the properties of these compounds may play in their medicinal applications: in the antimicrobial, antiviral, and chemotherapeutic scenarios, among others. Such properties include biological reactivity, targeting strategies, influence in phenomena like the formation and maintenance of reactive oxygen species, and enzyme and DNA binding, as well as their catalytic activity in complex biochemical reactions. Most of these phenomena involve system-wide biological responses that can be probed by resorting to genome based technologies and approaches.

Of special importance these days is the use that cell viability assays, genomics, and proteomics may have in the determination of the molecular and systemic (pathway-level) targets of bioinorganic drugs and the action mechanisms involved. These and other related topics may be the focus of this special issue.

Potential topics include but are not limited to the following:

- ▶ Basic experimental and theoretical studies of bioinorganic drugs
- ▶ Therapeutical applications
- ▶ Biochemical mechanisms of action
- ▶ Integrative approaches: omic and pathway analyses
- ▶ Synthesis and characterization of bioinorganic complexes of biomedical importance

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/bca/bmc/>.

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

Lead Guest Editor

Enrique Hernández-Lemus, National Institute of Genomic Medicine, Mexico City, Mexico
ehernandez@inmegen.gob.mx

Guest Editors

Carmen Mejía, Universidad Autónoma de Querétaro, Santiago de Querétaro, Mexico
maria.c.mejia@uv.es

Rodrigo Galindo-Murillo, University of Utah, Salt Lake City, USA
rodrigo.galindo@utah.edu

Juan Carlos García-Ramos, CONACyT-Nanoscience and Nanotechnology Center, Universidad Nacional Autónoma de México, Mexico City, Mexico
jcgr@cnyn.unam.mx

Submission Deadline

Friday, 2 March 2018

Publication Date

July 2018