

Special Issue

Structural and Functional Insights into Metalloantibiotics

Message from the Guest Editor

Metalloantibiotics are a distinctive class of antimicrobial agents characterized by the presence of metal ions as integral components, which may include natural and synthetic metal complexes in a broad context. The structural architecture of metalloantibiotics, encompassing the coordination sphere, ligand types, and molecular geometry, plays a pivotal role in determining their specificity, potency, and broad biological activities. Functional studies have revealed that metalloantibiotics act through diverse pathways, including disruption of microbial cell membranes, inhibition of key enzymatic processes, interference with the synthesis of nucleic acids, proteins, and cell wall, and modulation of redox homeostasis within pathogens. Any Submissions of manuscripts regarding structural and functional studies of natural metalloantibiotics and studies of synthetic metalloantibiotics with significant biological, pharmacological, and toxicological aspects are welcome.

Guest Editor

Prof. Dr. Li-June Ming

Department of Chemistry, University of South Florida, Tampa, FL 33620, USA

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Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

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Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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