

Special Issue

Perspective Research on Antimicrobial Activities of Metals and Metal-Based Compounds

Message from the Guest Editor

Microbes have a love–hate relationship with metals. Some metals may be essential to microbe survival, but they are toxic in certain forms and concentrations. In recent years, the antimicrobial resistance of metal ions has received more and more attention. Some metal-based nanoparticles have a non-specific bacterial toxicity mechanism, which makes it difficult for bacteria to develop drug resistance and also broadens the spectrum of antibacterial activity. This current Special Issue of the *International Journal of Molecular Sciences* focuses on advances in the development of metalloantibiotics, uses of metal complexes to combat bacterial infections, analysis of antibiofilm properties of various metal oxide nanoparticles and nanocomposites, and the latest updates in this growing field. We welcome original scientific research articles, comprehensive reviews, and communications related to this topic.

Guest Editor

Prof. Dr. Christopher Rensing

Institute of Environmental Microbiology, College of Resource and Environment, Fujian Agriculture and Forestry University, Fuzhou 350002, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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