



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

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Message from the Guest Editor

Dear Colleagues,

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.





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Message from the Editor-in-Chief

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