

## Special Issue

# The Antimicrobial Activity of Metal-Based Nanoparticles

### Message from the Guest Editor

Metal-based nanoparticles have been widely used for their versatility for multiple purposes, including environmental, clinical, urban and industrial applications. They can be prepared from many metal sources, as well as via various routes, including chemical, physical–chemical and biogenic synthesis. To identify efficient alternative materials, including nanomaterials and composites, this Special Issue will give specific attention to biocides, antiseptics, pesticides and/or inhibitors preventing microbial growth by using any well-known or completely new mechanisms to promote the deactivation of microbial replication. Submissions describing metal-based nanoparticles, with effective antiseptic, disinfectant, biocide, or pesticide actions that can be used to reduce the transmission and propagation of microorganisms in different contexts and environments, are especially encouraged.

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### Guest Editor

Dr. Suzan Pantaroto de Vasconcellos  
Multidisciplinary Laboratory on Health and Environment, Federal University of São Paulo, Diadema, Brazil

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### Deadline for manuscript submissions

10 June 2026



## Antibiotics

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## About the Journal

### Message from the Editor-in-Chief

There are very few fields that attract as much attention as scientific endeavor related to antibiotic discovery, use and preservation. The public, patients, scientists, clinicians, policy-makers, NGOs, governments, and supra-governmental organizations are all focusing intensively on it: all are concerned that we use our existing agents more effectively, and develop and evaluate new interventions in time to face emerging challenges for the benefit of present and future generations. We need every discipline to contribute and collaborate: molecular, microbiological, clinical, epidemiological, geographic, economic, social scientific and policy disciplines are all key. *Antibiotics* is a nimble, inclusive and rigorous indexed journal as an enabling platform for all who can contribute to solving the greatest broad concerns of the modern world.

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### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
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