



## Cross-resistance and Co-resistance for Heavy Metals and Antimicrobials

Guest Editor:

**Dr. Barry R. Palmer**

School of Health Science, College  
of Health, Massey University,  
Wellington, New Zealand

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editor

Dear Colleagues,

I invite submissions for this Special Issue of *Antibiotics* dedicated to a topic of growing importance: the emergence of microbes resistant to a range of antimicrobial compounds in environments contaminated with heavy metals (more precisely defined as trace elements of environmental concern (TEoECs)).

Increasing intensification of human activity in both urban and rural environments, and related effects on undeveloped, once pristine areas, have created situations where TEoECs contaminate diverse ecosystems. This situation may promote selection for resistance to TEoECs and compounds used as antimicrobials, even in the absence of the latter.

This Special Issue welcomes submission of manuscripts including original research, review articles, and opinion papers. Presentation of data is welcome on the quantification of cross-resistance and co-resistance to TEoECs and antimicrobials in diverse environments including, for example, hospital settings, effluent from healthcare facilities, farms and other agricultural facilities, and wastewater treatment plants as well as the land and water receiving discharges from these plants.

Dr. Barry R. Palmer

*Guest Editor*





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## Editor-in-Chief

### Prof. Dr. Nicholas Dixon

School of Chemistry and  
Molecular Bioscience, University  
of Wollongong, Wollongong, NSW  
2522, Australia

## 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 disciples 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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*Antibiotics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/antibiotics  
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