

## Special Issue

# Antibiotic Resistance: In the Perspective of Causes, Current Status, Mechanism and Reverting

### Message from the Guest Editor

The surge of antibiotic-resistant bacteria brings huge challenge to modern medicine, which threatens human health and causes huge economic loss. Understanding the mechanism conferring antibiotic resistance is essential to develop strategy to overcome the resistance. Actually, tremendous progress has been made in the past decades in deciphering the key determinants of antibiotic resistance. However, an important aspect that is always being ignored is how can we can we revert the antibiotic resistance or resensitize antibiotic-resistant bacteria to current available antibiotics based on the identified mechanism? With this consideration, we propose this research topic that specifically address the mechanism that can be harnessed to revert antibiotic resistance. Therefore, we encourage submissions from a broad perspective that enhance our understanding of resistant mechanism and its use for reverting antibiotic resistance besides classical studies on genes, efflux pumps, antibiotic modification enzymes.

### Guest Editor

Prof. Dr. Xuanxian Peng

Center for Proteomics and Metabolomics, State Key Laboratory of Bio-Control, School of Life Sciences, Sun Yat-sen University, University City, Guangzhou 510006, China

### Deadline for manuscript submissions

closed (31 December 2021)



## Antibiotics

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/78801](https://mdpi.com/si/78801)

*Antibiotics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[antibiotics@mdpi.com](mailto:antibiotics@mdpi.com)

[mdpi.com/journal/  
antibiotics](https://mdpi.com/journal/antibiotics)





# Antibiotics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/journal/  
antibiotics](https://mdpi.com/journal/antibiotics)



## 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.

---

### Editor-in-Chief

Prof. Dr. Nicholas Dixon  
School of Chemistry and Molecular Bioscience, University of  
Wollongong, Wollongong, NSW 2522, Australia

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Infectious Diseases) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)