

## Special Issue

# Antibiotic Resistance and the Responsible Use of Antibiotics in Human and Veterinary Medicine

### Message from the Guest Editors

Antimicrobial resistance (AMR) is widely recognized as a critical public health challenge in both human and veterinary medicine. AMR spread is a complex issue, as there are numerous ways through which it can be transferred between humans and animals, including via close contact, the food chain, or, indirectly, the environment. Antibiotic misuse in human healthcare, veterinary practice, and livestock farming is the primary driver of this problem. In response, the World Health Assembly has adopted five key strategic action plans to combat AMR: (1) enhancing AMR awareness and understanding; (2) strengthening knowledge through surveillance and research, with a focus on infection control measures; (3) implementing effective sanitation, hygiene, and infection prevention strategies; (4) optimizing antimicrobial use in both human and animal health; and (5) ensuring sustainable investment in countering antimicrobial resistance. Therefore, this Special Issue invites submissions from various research fields that focus on AMR and antimicrobial use in both human and veterinary medicine, with a particular focus on the World Health Assembly's five objectives.

### Guest Editors

Prof. Dr. Horvat Olga

Department of Pharmacology Toxicology and Clinical Pharmacology,  
Faculty of Medicine, University of Novi Sad, Novi Sad, Serbia

Prof. Dr. Frane Božić

Department for Pharmacology and Toxicology, Veterinary Faculty,  
University of Zagreb, Zagreb, Croatia

### Deadline for manuscript submissions

closed (30 April 2025)



## Antibiotics

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/216593](https://mdpi.com/si/216593)

*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)