

## Special Issue

# Bacterial-Associated Infections: Epidemiology, Antimicrobial Resistance and Its Impact on Health

### Message from the Guest Editors

Bacterial infections have significantly increased in recent decades, not only in humans but also in pets and livestock animals. Additionally, the lack of success in treating infections is related to the indiscriminate use of antibiotics, which have clinical implications in both human and veterinary medicine. The scarcity of new classes of antimicrobials highlights the need for new strategies to manage these infections. For that reason, exploring alternative strategies to treat these infections is an urgent necessity. The main objective of this Special Issue is to improve our understanding of the impact of antimicrobial resistance on bacterial infections. Submissions regarding resistance mechanisms, epidemiology, the application of molecular diagnostic and genome sequencing, virulence determinants, and the biological implications of resistance in virulence of bacterial-associated pathogens are encouraged. In addition, manuscripts concerning the clinical and economic burden of multidrug resistance in bacterial infections and novel therapeutics approaches to overcome this challenge are especially welcome.

### Guest Editors

Dr. Joana Castro

Dr. Daniela Araújo

Dr. Sónia Silva

### Deadline for manuscript submissions

closed (20 April 2024)



## Antibiotics

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/135074](https://mdpi.com/si/135074)

*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)