

## Special Issue

# Impact of Plant-Derived Products as Novel Antimicrobial Agents

### Message from the Guest Editor

The expansion of the global population has led to an increased demand for agricultural products, with the consequent increased employment of antimicrobial agents; however, their excessive and uncontrolled use led to a progressive loss of efficacy due to the onset of resistance phenomena. The treatment of microbial infections has become particularly challenging, and research on novel antimicrobial agents is extremely encouraged. Plants are sources of many chemical scaffolds characterized by promising antimicrobial activity and diverse modes of action. Moreover, plant-derived compounds sometimes also act in synergy with several classes of antibiotics, enhancing their antimicrobial spectrum. This Special Issue will focus on the antimicrobial effects of plant-derived products on plant bacterial and fungal pathogens, as well as on their modes of action. Moreover, their synergistic action with conventional antibiotics will also be evaluated. Furthermore, this Special Issue will address the extraction and purification of antimicrobial compounds, their chemical characterization, and safety evaluation and the development of innovative delivery systems will also be considered.

---

### Guest Editor

Dr. Eleonora Spinozzi

Chemistry Interdisciplinary Project (ChIP), School of Pharmacy,  
University of Camerino, Via Madonna delle Carceri, 62032 Camerino,  
Italy

---

### Deadline for manuscript submissions

closed (28 February 2026)



## Antibiotics

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/227162](https://mdpi.com/si/227162)

*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)