

## Special Issue

# Antimicrobial Activity of Natural Products and Plants

### Message from the Guest Editor

Multidrug resistance has become a huge challenge for healthcare worldwide, and remains one of the leading causes of human mortality over the past few years. Bacteria, fungi, parasites, and viruses have consecutively been developing numerous resistant mechanisms against current antibiotics, hampering the success of anti-infectious therapies, and thus leading to severe consequences for patients' health. In addition, the use of synthetic chemicals to control microorganisms is still limited due to their carcinogenic effects, acute toxicity, and environmental hazards. Hence, there is an urgent demand for new antibiotics from the scientific community to address multidrug resistance. Therapeutic agents from herbal medicines have long emerged as a potential natural source for treating infectious diseases. Today, many of these compounds have not only been rediscovered, but are also the subject of new applications, and have been discovered for new antifungal or antiviral properties. keywords: natural antimicrobial compounds; clinical applications; antifungal properties; antiviral properties; antimicrobial mechanisms

### Guest Editor

Dr. Edyta Makuch

Department of Chemical Organic Technology and Polymeric Materials, Faculty of Chemical Technology and Engineering, West Pomeranian University of Technology, Szczecin, Szczecin, Poland

### Deadline for manuscript submissions

closed (30 June 2022)



## Antibiotics

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.7  
Indexed in PubMed



[mdpi.com/si/70071](https://mdpi.com/si/70071)

*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)