



## Antimicrobial Activity of Natural Products and Plants Extracts

Guest Editors:

**Dr. Mihaela Niculae**

Faculty of Veterinary Medicine,  
University of Agricultural  
Sciences and Veterinary Medicine  
of Cluj-Napoca, Cluj-Napoca,  
Romania

**Dr. Daniela Hanganu**

Faculty of Pharmacy, Luliu  
Hațieganu Medicine and  
Pharmacy University, 400012  
Cluj-Napoca, Romania

Deadline for manuscript  
submissions:

**15 November 2024**

### Message from the Guest Editors

Dear Colleagues,

There is an urgent need to discover new antimicrobial products that are suitable to tackle microbial resistance. Pathogenic and commensal, human, veterinary, foodborne, and environmental bacteria are constantly associated with elevated levels of antimicrobial resistance. Natural products (NPs) are regarded to be valuable alternatives to conventional medicine given their complex therapeutical properties. Over time, the contribution of NPs to the field of pharmacotherapy has been proven to be significant; multidisciplinary studies are required to assess their suitability as sources of biologically active compounds that could be further utilized in therapy.

This Special Issue aims to extend and update the knowledge regarding the antimicrobial potential of natural products. Potential topics include but are not limited to the following: screening of antimicrobial potential, the antimicrobial efficacy of natural products and plant extracts correlated to their chemical composition and/or other biological properties, interconnected pathways, and mechanisms of action, synergism, and standardization.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Nicholas Dixon

School of Chemistry and  
Molecular Bioscience, University  
of Wollongong, Wollongong, NSW  
2522, Australia

## 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 disciples 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.

## 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 (Pharmacology and Pharmacy) / CiteScore - Q1 (General Pharmacology, Toxicology and Pharmaceutics)

## Contact Us

---

*Antibiotics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/antibiotics  
antibiotics@mdpi.com  
X@antibioticsmdpi