



## Natural Alternatives and Their Synthetic Derivatives to Antibiotics

Guest Editor:

**Dr. Simone Carradori**

Department of Pharmacy,  
University “G. d’Annunzio” of  
Chieti-Pescara, Chieti, Italy

Deadline for manuscript  
submissions:

**31 December 2024**

### Message from the Guest Editor

This Special Issue aims to gather some of the most significant and recent contributions in the interdisciplinary area of medicinal chemistry, microbiology, pharmacology, pharmacognosy, and food chemistry, with a particular emphasis on the production/synthesis, isolation from complex extracts and full characterization, biological effects, uses, and toxicity of natural products and their semi-synthetic derivatives. The applications of natural active compounds must be strictly focused on bacterial infections, food contamination and preservation, in silico characterization, screening, inhibition of biofilm production and resistance development, herbal formulations, new mechanisms of action, structure–activity elucidation, chemically modified natural compounds with improved biological activity and their synergism with clinically approved drugs. Manuscripts on the biological activity of natural extracts without proper chemical characterization will not be considered.





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