

Special Issue

Antimicrobial Peptides: An Emerging Hope in the Era of New Infections and Resistance

Message from the Guest Editors

In this Special Issue, authors are invited to submit original research papers, review articles, short communications, case series, and opinion papers related to but not limited to the following specific areas of research:

- Screening, purification, and characterization of novel AMPs;
- Genome mining and comparative analysis of AMP-producing biosynthetic gene clusters;
- Cloning and heterologous expression of novel AMPs;
- Structural characterization and design of new AMPs with potential therapeutic activities;
- Strategies to understand the mechanisms of AMPs;
- Standardization of AMPs biological activities against various pathogens such as bacteria, fungi, viruses, and parasites, as well as chronic diseases like cancer and cystic fibrosis;
- Immunomodulatory properties of AMPs and potential therapeutic applications;
- Role of AMPs in human diseases;
- Combination therapies of AMPs with conventional antibiotics;
- Comparative genomics and evolutionary studies of AMPs;
- Evolution and resistance development against AMPs;
- Artificial intelligence and development of novel AMPs.

Guest Editors

Dr. Piyush Baidara

Department of Molecular Microbiology and Immunology, School of Medicine, University of Missouri, Columbia, MO 65211, USA

Dr. Marisa Di Pietro

Dipartimento di Sanità Pubblica e Malattie Infettive, Università degli Studi di Roma La Sapienza, Rome, Italy

Deadline for manuscript submissions

closed (28 February 2025)



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/125127

Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)