

Special Issue

Antibiotics in Pathogen Control: From Infection to Antimicrobial Resistance

Message from the Guest Editor

Pathogens, intended in the oldest and broadest sense, are any organism or agent that can produce disease. These agents can invade tissues, multiply, and produce toxic substances that cause disease. This Special Issue explores studies on all aspects of pathogen infections.

The paper can include: medicinal-chemistry studies regarding infections caused by pathogens; sepsis; infections caused by emerging and/or pathogens; pathogen genetics and genomics; host adaptation; pathogen Inactivation; innate and adaptive immune responses; molecular mechanisms of host-pathogen interaction; zoonotic diseases; vaccine and therapeutic development; immune defense mechanisms; veterinary infections; cell signaling; drug–drug interactions; antimicrobial resistance; resistance to antiparasitic treatments for both public and veterinary health; experimental and computational studies; activity of natural products, natural product chemistry; natural products chemistry and interdisciplinary approaches; and resistant pathogens

This Special Issue aims to address contributions to this complex field. We invite submissions of reviews, regular research papers, and communications related to this topic.

Guest Editor

Dr. Alessia Catalano

Department of Pharmacy-Drug Sciences, University of Bari “Aldo Moro”, 70126 Bari, Italy

Deadline for manuscript submissions

31 December 2026



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.7
Indexed in PubMed



mdpi.com/si/264454

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)