

Special Issue

Antimicrobial Resistance Genes: Spread and Evolution

Message from the Guest Editors

The burden of resistant strains and the threat posed by their increasing incidence worldwide have both healthcare and economic impacts. Besides being used for human therapy, antimicrobials are extensively used for animal farming and for agricultural purposes.

Nevertheless, the effect of the use of antimicrobials on the biosphere is wider than this and can impact the structure and activity of environmental microbiota. The clearest consequence of antimicrobial release in natural environments is the emergence and selection of resistant bacteria. This Special Issue seeks manuscript submissions that further our understanding of antimicrobial resistance, including: a) the identification of epidemic and persistent strains; b) the identification of reservoirs of resistant strains that could persist in the hospital and natural environment, but also in animal and food sources; c) the elucidation of mechanisms of the acquisition and spread of resistance and virulence factors amongst microbial populations; and d) the investigation of gene flow and the evolutionary pathways of antimicrobial resistance among microbial populations.

Guest Editors

Dr. Angeliki Mavroidi

Department of Microbiology, University Hospital of Patras, 26500 Rion, Greece

Prof. Dr. Georgia Vrioni

Department of Microbiology, Medical School, National and Kapodistrian University of Athens, 11527 Athens, Greece

Deadline for manuscript submissions

31 December 2024



Antibiotics

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 7.3
Indexed in PubMed



mdpi.com/si/118944

Antibiotics

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 4.3
CiteScore 7.3
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 (Pharmacology and Pharmacy) / CiteScore - Q1
(General Pharmacology, Toxicology and Pharmaceutics)