



Antimicrobial Resistance in Humans: The Final Frontier

Guest Editor:

**Dr. Matthaïos Papadimitriou
Olivieris**

Department of Infectious
Diseases, University Hospital of
Lausanne, Lausanne, Switzerland

Deadline for manuscript
submissions:

closed (31 October 2022)

Message from the Guest Editor

Dear Colleagues,

The development of resistance after the discovery of a given antimicrobial is inevitable. The process of resistance development and its dissemination in the healthcare environment and the community are accelerated by misuse of such antimicrobials. During the last two decades, some Gram-negative bacteria have acquired genes that confer resistance to carbapenems, further restricting our limited armamentarium. Another problematic is the fungi resistant to antifungals, some of which, such as the *Candida auris*, have the capacity to provoke nosocomial epidemics.

Therefore, this Special Issue seeks submissions concerning the mechanisms and evolution of resistance, the epidemiology and surveillance of resistance in the clinical setting, clinical applications of existing and newer antimicrobials, and strategies to control the emergence and dissemination of resistance and improve the control of antimicrobials' use.

Keywords: antimicrobial resistance; MRSA; VRE; carbapenemases; infection control; antifungal-resistance





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 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.

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, CAPUS / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Pharmacology & Pharmacy*) / CiteScore - Q1
(*General Pharmacology, Toxicology and Pharmaceutics*)

Contact Us

Antibiotics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/antibiotics
antibiotics@mdpi.com
[X@antibioticsmdpi](https://twitter.com/antibioticsmdpi)