



an Open Access Journal by MDPI

Antimicrobial Resistance Mechanisms and Antimicrobial Resistance Genes of Pathogens

Guest Editors:

Prof. Dr. Dongsheng Zhou

State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology, Academy of Military Medical Sciences, Beijing, China

Dr. Zhe Yin

State Key Laboratory of Pathogen and Biosecurity, Beijing Institute of Microbiology and Epidemiology, Beijing, China

Dr. Krisztina M. Papp-Wallace

JMI Laboratories-Element Iowa City, 345 Beaver Creek Center, Suite A, North Liberty, IA 52317, USA

Message from the Guest Editors

Antimicrobial resistance has become a worldwide public health threat due to the wide use of antibiotics in medicine, veterinary medicine, agriculture and poultry, and multidrug-resistant microorganisms can be frequently identified in both hospital and community settings. Antimicrobial resistance in microorganisms primarily arises from mutational adaptation, alteration of gene expression and acquisition of exogenous genetic materials. In particular, mobile genetic elements act as highly flexible genetic platforms of antimicrobial resistance genes, and they have intercellular or intracellular mobility and thus greatly promote the accumulation and spread of antimicrobial resistance genes between the same or different microbial species. This Special Issue seeks manuscript submissions that offer insights into the surveillance, epidemiology, biochemistry, genetics and genomics of antimicrobial resistance genes and associated mobile genetic elements.

Deadline for manuscript submissions:

closed (30 June 2023)



mdpi.com/si/117893

Special Issue



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 (Infectious Diseases) / 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