

Special Issue

Surveillance and Detection of Antimicrobial Resistance: Tools and Trends

Message from the Guest Editor

Antimicrobial resistance (AMR) represents one of the most formidable challenges facing global health today, threatening to reverse decades of medical advancement and compromise fundamental healthcare interventions. This Special Issue will present cutting-edge advances and emerging trends in AMR surveillance and detection across diverse environments, encompassing healthcare facilities, community settings, agricultural systems, and environmental reservoirs. We welcome contributions that explore innovative diagnostic technologies, laboratory-based and point-of-care detection platforms, genomic and proteomic surveillance approaches, and transformative digital health solutions including artificial intelligence and big data analytics. Manuscripts exploring the translation of surveillance data into actionable public health strategies, as well as studies examining implementation challenges and global real-world applications of AMR detection systems, are particularly encouraged. Through this comprehensive platform, we aim to accelerate scientific progress in AMR control and promote interdisciplinary collaboration among researchers, clinicians, and public health practitioners worldwide.

Guest Editor

Prof. Dr. Hung-Sheng Shang

Division of Clinical Pathology, Department of Pathology, Tri-Service General Hospital, National Defense Medical Center, Taipei 114, Taiwan

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Antibiotics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
antibiotics@mdpi.com

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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

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