



Antibiotic Resistant Pathogens in Hospital

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Message from the Guest Editors

Dear Colleagues,

The emergence of antimicrobial resistance (AMR) is a major public health problem for contemporary medicine. Antibiotic-resistant pathogens can cause difficult-to-treat infections in hospitalized patients and in immunocompromised hosts. The over-prescription of antibiotics has been witnessed, almost on a worldwide scale, during the SARS-CoV2 pandemic, and the increasing rates of antibiotic-resistant pathogens is threatening.

This Special Issue addresses any aspect of antibiotic-resistant pathogens in hospitals, including the following areas: Epidemiology; Infection control measures to prevent or contain the expansion of antibiotic-resistant pathogens; Diagnostic tools to guide early and appropriate treatment against antibiotic-resistant pathogens; Therapeutic strategies to treat infections caused by antibiotic-resistant pathogens; Antimicrobial stewardship studies to combat antibiotic-resistant pathogens and avoid antimicrobial over-use.

Keywords: antimicrobial resistance; healthcare-associated infections; resistance mechanisms; beta-lactams; colistin; carbapenem; *Klebsiella pneumoniae*; *Pseudomonas aeruginosa*; *Acinetobacter baumannii*; nosocomial pneumonia





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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.

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