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Microbial Resistance to Carbapenems: Epidemiology, Detection and Treatment Options

Guest Editors:

Dr. Vasiliki Koumaki

Department of Microbiology, School of Medicine, National and Kapodistrian University of Athens, 75 Mikras Asias Street, 11527 Athens, Greece

Dr. Efthymia Protonotariou

Department of Microbiology, AHEPA University Hospital, School of Medicine, Aristotle University of Thessaloniki, 54636 Thessaloniki, Greece

Deadline for manuscript submissions:

30 June 2024

Message from the Guest Editors

Dear Colleagues,

During the last few years, we have been witnessing the adverse effects of the 'post-antibiotic era', characterized by ineffective drugs and the development of superbugs. Antimicrobial resistance represents a major threat to global health, and it has significant impacts regarding morbidity, mortality and healthcare costs. In particular, carbapenem resistance has emerged in Gram-negative pathogens such as Acinetobacter Pseudomonas aeruginosa, and Enterobacterales, which are often implicated in serious, difficult-to-treat healthcare-associated infections. Carbapenem-resistant, Gramnegative bacteria are listed by the WHO as pathogens with critical priority for the development of new drugs. Currently, a few new drugs and combinations, as well as old, revived drugs, have been used for the treatment of infections due to carbapenem-resistant pathogens. Therefore, this Special Issue seeks manuscripts regarding:

- 1. The epidemiology of carbapenem-resistant Gramnegative bacteria;
- 2. Different laboratory methodologies for prompt detection:
- 3. Treatment options for infections attributed to carbapenem-resistant pathogens.













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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 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.

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