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Mechanism of Carbapenem Resistance in *Enterobacteriaceae*, *Acinetobacter* and *Pseudomonas aeruginosa*

Guest Editor:

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Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editor

Dear Colleagues,

Infections caused by carbapenem-resistant Gram-negative pathogens, i.e., carbapenem-resistant *Enterobacteriaceae* (CRE), carbapenem-resistant *Acinetobacter baumannii* (CRAB), and MDR *Pseudomonas aeruginosa* are listed by the World Health Organization as pathogens of critical priority. Infections caused by such pathogens are difficult to treat, even if we consider the beta-lactam/beta lactamase inhibitor (BL/BLI) drugs and cefiderocol, which were recently introduced into medical practice.

Manuscripts are invited concerning the following areas of interest:

- In vitro diagnostic tools for the phenotypic detection of carbapenemase enzymes and carbapenem resistance in *Enterobacteriaceae*, *Acinetobacter spp.*, and *Pseudomonas aeruginosa*;
- Molecular epidemiology of CRE, CRAB, and carbapenem-resistant *Pseudomonas aeruginosa*;
- Evaluation of the treatment efficacy of the new beta-lactam/beta lactamase inhibitors or cefiderocol in infections caused by CRE, CRAb and M D R *aeruginosa* in relation to their resistance mechanisms.

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Special Issue

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Editor-in-Chief

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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 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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