Special Issue

Resistant Mechanisms and Novel Antibiotics of Carbapenem-Resistant Crisis

Message from the Guest Editor

The carbapenem-resistance crisis, involving carbapenem-resistant (CR) *Enterobacteriaceae*, CR *Pseudomonas aeruginosa*, and CR *Acinetobacter baumannii*, has highlighted these organisms as the antibiotic-resistant "priority pathogens" for the research and development of new antibiotics. Although the combination of β-lactam and β-lactamase inhibitor is now regarded as one of the strategies to address the carbapenem-resistance crisis, antibiotic resistance against this kind of combination has been reported. Thereby, the surveillance of antibiotic resistance is highly needed to provide therapeutic options, antibiotic stewardship programs, infection control, and the development of novel antimicrobial agents for clinical settings. We invite contributors making efforts in the carbapenem-resistance crisis to submit research articles about the following:

- i) Underlying molecular mechanisms of antibiotic resistance;
- ii) Development of novel agents against the carbapenem-resistance crisis;

iii) Evaluation of efficacy for novel antimicrobials against the carbapenem-resistance crisis;

- iv) New approaches to combat the carbapenem-resistance crisis.

Guest Editor

Prof. Dr. Sung-Pin Tseng

Department of Medical Laboratory Science and Biotechnology, Kaohsiung Medical University, Kaohsiung, Taiwan

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

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

Editor-in-Chief

Prof. Dr. Hinh Ly
Department of Veterinary and Biomedical Sciences, College of Veterinary Medicine, University of Minnesota, Saint Paul, MN 55108, USA

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