



Virulence and Resistance Mechanisms in Multidrug-Resistant Gram-Negative Bacteria

Guest Editors:

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Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

Dear Colleagues,

Gram-negative infections cause a substantial burden to patients globally, resulting in significant morbidity and mortality. This is reflected by data from both the U.S. Centers for Disease Control and Prevention and the World Health Organization in their reports on antibiotic-resistant threats and priority pathogens, respectively, wherein many of the pathogens noted are Gram-negative. While much is known about many of these pathogens, novel therapeutics to combat these bacteria in the healthcare setting are lacking, mainly due to a lack of data pertaining to their underlying virulence and resistance mechanisms. This sparsity of data makes the discovery of therapeutic targets difficult, stifling drug development.

This Special Issue therefore encourages submissions of original research that closes this gap by elucidating the virulence and resistance mechanisms of these critically important bacteria, ultimately aiding in the discovery of novel therapeutic targets.

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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.

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