



Antimicrobial Resistance Mechanisms in Bacteria

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Message from the Guest Editors

Gram-negative bacteria are prevalent pathogens associated with hospital-acquired infections that are a major challenge for patient safety, especially in ICUs. The growing number of antimicrobial-resistant (AMR) pathogens places a significant burden on healthcare systems. Even multi-drug (MDR), extensive-drug (XDR), and pan-drug (PDR) resistant bacteria have developed because of horizontal transfer (HGT) of AMR genes. HGT through plasmids plays a major role. Typing of the plasmids and study of their spread and evolution in different bacterial hosts provide knowledge concerning the transmission of AMR.

The aim of this Special Issue is to provide a collection of articles that highlight the current issues in the research of “Plasmids Carrying Antimicrobial Resistance Genes in Gram-Negative Bacteria”. As the Guest Editor, I invite you to submit research articles, review articles, and short communications dedicated to the AMR genes and plasmids in Gram-negative bacteria, plasmid typing, HGT from the human microbiome or animal pathogens, etc.





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Message from the Editor-in-Chief

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