

Special Issue

Genetic and Molecular Mechanisms of Antimicrobial Resistance in Bacteria

Message from the Guest Editor

Pathogens present an ongoing threat to public health, and the emergence of antimicrobial resistance in these organisms exacerbates this issue. Bacteria, such as pathogenic *Escherichia coli*, *Klebsiella pneumoniae*, *Shigella*, *Salmonella*, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Vibrio parahaemolyticus*, *Campylobacter coli*, etc., continuously evolve novel mechanisms of resistance to survive antibiotic pressure. A comprehensive understanding of the molecular mechanisms underlying antimicrobial resistance phenotypes is crucial for identifying potential targets aimed at controlling antimicrobial-resistant pathogens. This Special Issue aims to enhance our comprehension regarding recent advancements in the research on genetic and molecular mechanisms associated with antimicrobial resistance. Specifically welcome are papers focusing on antimicrobial resistance genes; regulatory mechanisms related to these genes; adaptive changes in pathogens in response to antimicrobial pressure; and other relevant topics.

Guest Editor

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Deadline for manuscript submissions

closed (15 December 2024)

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CiteScore 5.5
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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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