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Genetics and Genomics of Antimicrobial Resistance

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Message from the Guest Editors

Antimicrobial resistance is a widespread medical threat that renders drugs ineffective and increases the risk of bacterial infection. Genetics and genomics approaches applied to study mechanisms of antimicrobial resistance have transformed both human and veterinary medicine in recent decades. Still, there is a lot of work ahead. Understanding the epidemiology, transmission, heritance, and variations of antimicrobial-resistant bacteria will benefit us all.

This Special Issue of *Genes* on “Genetics and Genomics of Antimicrobial Resistance” will focus on novel observations concerning a variety of topics related to antimicrobial resistance. Suitable subjects include molecular epidemiology and population genomics of antimicrobial-resistant bacteria, tools, and analysis methods to decipher complex genomic structures of such bacteria, mechanisms, and evolution of novel mobilomes facilitating resistance gene transmission, and discovery of novel antimicrobial resistance mechanisms.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving 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.

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