Special Issue

Advances in Pharmacogenomics of Human Diseases

Message from the Guest Editors

Pharmacogenomics is transforming the landscape of modern medicine by uncovering how genetic variations influence drug efficacy and safety. These insights are paving the way for more personalized therapeutic strategies, improving drug efficacy, minimizing adverse drug reactions, and optimizing clinical outcomes. Despite its potential, the full implementation of pharmacogenomics in clinical practice remains limited, with challenges such as biomarker validation and integration into healthcare systems yet to be fully addressed. This Special Issue aims to provide a comprehensive overview of the latest research in pharmacogenomics and its application to human diseases. We invite high-quality original research articles and comprehensive reviews addressing, but not limited to, pharmacogenomic biomarker identification and validation, novel approaches for integrating pharmacogenomics into clinical workflows, and bioinformatics tools that enhance the interpretation of genetic data. These efforts will collectively contribute to bridging the gap between pharmacogenomics research and clinical practice, improving the quality of patient care.

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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?

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