

## Special Issue

# From Genetic Mechanisms Discovery to Patient-Centered Care: The Expanse of Genomics Research

### Message from the Guest Editors

Genomic medicine is rapidly advancing, driven by breakthroughs in understanding genetic mechanisms, technological innovations, and the growing clinical applicability of genomic research. As our knowledge of disease-associated variants, functional genomics, and molecular pathways expands, these discoveries are increasingly translated into patient-centered care, enabling precise diagnostics, targeted therapies, and personalized risk assessment. From elucidating pathogenic variants to developing therapeutic interventions, genomics research now spans diverse medical specialties, reshaping how we diagnose, treat, and prevent genetic conditions. At the same time, advances in genomic technologies are accelerating the translation of mechanistic discoveries into real-world applications. This Special Issue invites original research, reviews, and perspectives that explore the full spectrum of genomics research, from fundamental genetic discoveries to their clinical and therapeutic implementation. We welcome submissions on novel disease mechanisms, genotype–phenotype analysis, functional genomics, translational bioinformatics, and strategies for advancing precision medicine.

### Guest Editors

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### Deadline for manuscript submissions

25 November 2025

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## Genes

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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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### Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan  
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