

Special Issue

Molecular Genetics Reviews: Current Understanding and Future Directions

Message from the Guest Editors

The Special Issue aims to publish high-quality review papers providing a comprehensive overview of key concepts, emerging discoveries, and future perspectives in the field of molecular genetics. As our understanding of genetic and genomic mechanisms continues to evolve, review articles play a critical role in synthesizing knowledge, identifying knowledge gaps, and guiding future research. This Special Issue welcomes authoritative reviews covering a wide range of topics, including gene structure and function, regulation of gene expression, genome organization, mutation mechanisms, epigenetic modifications, and chromosomal dynamics. Reviews that integrate multi-omics data, highlight innovative technologies such as CRISPR-based editing, single-cell genomics, or long-read sequencing, and discuss computational approaches in genetic analysis are highly encouraged. Particular attention is given to the translational impact of these discoveries, with contributions highlighting how molecular genetics is driving the development of innovative therapies, from personalized medicine to genetic engineering for biotechnological purposes.

Guest Editors

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About the Journal

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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