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Genetic Advances and Challenges in Complex Diseases

Guest Editor:

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Deadline for manuscript submissions:
15 November 2024

Message from the Guest Editor

This research topic focuses on advances and challenges in genetic and genomic studies of complex human diseases. We welcome all types of manuscripts. Topics of interest for this Special Issue include, but are not limited to, the following:

Next-generation sequencing, including targeted sequencing and whole-genome/exome sequencing analysis for complex human diseases and traits;

Multi-omics analysis (e.g., transcriptome, epigenome, proteome) of complex human diseases and traits;

Genetic and genomic association analysis and mendelian randomization analysis utilizing publicly funded big data resources, such as UK Biobank data;

Discovery of new common and rare variants of human diseases;

Functional studies to elucidate the molecular mechanisms of newly discovered or previously reported candidate genetic variants identified through genetic association studies;

New methods for data sharing, harmonization, and analytical approaches for integrating different data types;

Research using cutting-edge techniques, including single-cell sequencing methods.

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Editor-in-Chief

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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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