Special Issue

Unraveling Genetic Complexity: Integrative Approaches in Variant Interpretation

Message from the Guest Editor

This special issue aims to delve deeper into the intricate landscape of genetic variation and its implications for human health and disease, focusing on detailed characterization at multiple levels, including alleles, genes, macromolecular complexes, and signaling cascades. Furthermore, we seek to explore the comprehensive profiles of tissue- or cell-specific features, shedding light on the context-dependent nature of genetic variation. Leveraging innovative systems biology approaches that integrate multi-modality data across transcriptomes, epigenomes, and genome editing holds immense promise in elucidating the underlying genetic mechanisms driving human diseases and uncovering actionable insights with clinical relevance. We invite submissions that contribute to our understanding of genetic variations. Studies that integrate meaningful information from diverse data sources or address the challenges associated with variant interpretation through experimental advancements, statistical methodologies, or computational techniques are particularly relevant.

Guest Editor

Dr. Xiao Fan

Herbert Wertheim College of Engineering, Gainesville, FL, USA

Deadline for manuscript submissions

closed (15 September 2024)

MDPI

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

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:
indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank:
JCR - Q2 (Genetics and Heredity) / CiteScore - Q2 (Genetics (clinical))

MDPI