

Special Issue

Genetic and Genomic Insights into Complex Human Diseases: Advances, Challenges and Integrative Approaches

Message from the Guest Editors

Advances in genetic and genomic technologies have enabled the generation of multi-dimensional, high-throughput data from both disease cohorts and general populations. These developments offer unprecedented opportunities—alongside new analytical challenges—for integrating diverse data types to uncover molecular mechanisms underlying complex human diseases. This Special Issue aims to highlight recent progress and address ongoing challenges in genetic and genomic studies of complex traits and diseases. We welcome all types of manuscripts, including original research articles, methodology papers, reviews, and translational studies. We particularly encourage submissions that combine genomic analysis with experimental validation through molecular or animal studies to strengthen causal inference and biological interpretation. We also welcome papers containing interesting results in cellular and molecular biology.

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).