

Special Issue

Molecular Mechanisms Underlying the Pathogenesis of Genetic Diseases

Message from the Guest Editor

It is my great pleasure to invite you to contribute to this Special Issue, entitled “Molecular Mechanisms Underlying the Pathogenesis of Genetic Diseases”, which I have the honor of Guest Editing. We invite original research articles, reviews, and perspective papers on topics including, but not limited to, the following:

- Molecular mechanisms driving genetic diseases and their functional consequences;
- Genotype–phenotype correlation and disease variability;
- Multi-omics approaches (genomics, transcriptomics, proteomics, metabolomics) for studying genetic disorders;
- The role of modifier genes in disease progression and therapeutic response;
- Personalized medicine and innovative therapeutic strategies, including gene therapy and targeted pharmacological interventions;
- Mechanisms of action of investigational molecules and drugs in clinical development;
- Biomarkers and outcome measures in clinical trials for genetic diseases;
- Translational research connecting molecular findings to clinical applications.

Guest Editor

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Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, and molecular biophysics. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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