

Special Issue

Molecular Insights into Ophthalmic Diseases

Message from the Guest Editor

Ophthalmic diseases such as cataract, glaucoma, age-related macular degeneration, and diabetic retinopathy represent a growing global health challenge driven by complex molecular mechanisms. In addition to environmental and lifestyle factors, disease onset involves interactions between genetic predisposition, metabolic dysregulation, oxidative stress, immune responses, and aging-related molecular changes. Understanding these mechanisms is essential for identifying novel biomarkers, therapeutic targets, and strategies for early intervention. This Special Issue welcomes original research articles and reviews focusing on molecular mechanisms of ocular diseases, including molecular pathophysiology of the eye; genetic and epigenetic regulation; oxidative stress, mitochondrial dysfunction, inflammation, apoptosis, and autophagy; biomarker discovery and molecular diagnostics; innovative therapies such as targeted drugs, gene therapy, and regenerative medicine; and advanced approaches including bioinformatics, artificial intelligence, and molecular imaging.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) 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, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *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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