Pathophysiologic Mechanisms of Eye Diseases and Novel Therapeutic Approaches

Message from the Guest Editor

The eye is a remarkable organ of incredible functional complexity. Each of its structures, including the cornea and ocular surface, trabecular meshwork and sclera, ciliary body, iris and lens, neuroretina, and optic nerve, have their own specialized biology. This Special Issue of IJMS invites articles that provide new insights into the underlying mechanisms of diseases of the eye, as well as work on new diagnostic tools/biomarkers, and novel therapeutic strategies. Diseases include dry eye, pinguecula and pterygium, ocular hypertension, cataract, glaucoma, and retinal degeneration. Both preclinical and clinical studies emphasize the interest in molecular biology approaches and encourage animal models of disease.

Keywords:

eye; ocular surface; cornea; trabecular meshwork; sclera; iris; ciliary body; lens; retina; optic nerve; pathophysiology; therapeutic
Editor-in-Chief

Prof. Dr. Maurizio Battino
Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

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.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and many other databases.

Journal Rank: JCR - Q1 (Biochemistry & Molecular Biology) / CiteScore - Q1 (Inorganic Chemistry)

Contact Us

International Journal of Molecular Sciences
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
@IJMS_MDPI