



## Bioactive Compounds in the Pathogenesis, Prevention, and Therapy of Eye Diseases

Guest Editors:

**Prof. Dr. Janusz Blasiak**

Faculty of Biology and  
Environmental Sciences,  
Department of Molecular  
Genetics, University of Lodz, 90-  
136 Lodz, Poland

**Prof. Dr. Kai Kaarniranta**

Department of Ophthalmology,  
Kuopio University Hospital, 70211  
Kuopio, Finland

Deadline for manuscript  
submissions:

**closed (30 November 2020)**

### Message from the Guest Editors

Dear Colleagues,

Bioactive compounds derived from natural products include a diverse class of compounds with different chemical structures comprising polyphenols, carotenoids, tocopherols, phytosterols, organosulfur compounds, and other classes. Although several bioactive compounds are reported to have a beneficial effect on vision, the results of clinical trials and systematic reviews on their efficacy in various eye diseases are not conclusive.

This Special Issue welcomes both original papers and reviews addressing the potential of bioactive compounds in eye disease pathogenesis, prevention, and therapy. The following diseases may be addressed: refractive disorders, dry eye syndrome, cornea degenerations and dystrophies, conjunctiva disorders, cataracts, uveitis, glaucoma, age-related macular degeneration, diabetic retinopathy, albinism, retinopathy of prematurity, retinitis pigmentosa, ocular tumors, lysosomal storage diseases, and rare ophthalmic genetic diseases, as well as chemical and physical damage of the eye studied in cell cultures, animal models, or human material.

Prof. Dr. Janusz Blasiak

Prof. Dr. Kai Kai Kaarniranta

*Guest Editors*





an Open Access Journal by MDPI

## 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 other databases.

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

## Contact Us

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

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI