

Special Issue

Retinal Degeneration and Protection

Message from the Guest Editor

The numbers of patients with visual impairment and blindness continue to rise year after year. As the top ranking diseases to lead to blindness, glaucoma, age-related macular degeneration (AMD), and retinitis pigmentosa (RP) are identified. There are variety of neurons in the retina and the visual impairment occurs even one type of neuron is degenerated. Numerous researches that investigated the mechanisms of retinal degeneration induced by diseases have contributed to develop the new types of therapies such as gene therapies and cell transplantation therapies. Therefore, the understanding of the diverse signalling molecules and signal transduction pathways of retinal degenerations is fundamental for developing therapies. The scope of the special issue is to summarize and enlarge the knowledge of mechanisms in retinal degeneration and protection. Topics include, but are not limited to:

- New aspects of the mechanisms in retinal degenerative diseases
- Techniques for the analysis and identification of retinal diseases
- Evaluations of new treatments in animal studies

Guest Editor

Prof. Dr. Hiroshi Tomita

Laboratory of Visual Neuroscience, Graduate Course in Biological Sciences, Division of Science and Engineering, Iwate University, 4-3-5 Ueda, Morioka 020-8551, Iwate, Japan

Deadline for manuscript submissions

closed (24 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/88562

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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.

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

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 and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)