

Special Issue

New Insights into Lectins

Message from the Guest Editor

Glycans are involved in a wide variety of life phenomena such as infection, cancer, immunity, development, and differentiation. Certain glycan antigens are known as disease markers such as cancer markers, and abnormalities in glycans are associated with various diseases. Thus, the elucidation of the control mechanism of the cell-specific expression of glycans will be an important issue in future glycoscience research. Additionally, characteristic glycans exist on the surface of foreign pathogens, including viruses and bacteria. Therefore, lectins that specifically recognize glycans not only identify these diseases or pathogens but also have potential utility as new pharmaceutical materials that target glycans. Lectins are present in various species, from lower organisms such as bacteria to higher animals including humans. The roles of lectins in each species are diverse; for example, in humans, lectin receptors are known as pattern recognition receptors that play a role in eliciting innate immune responses. Elucidating the individual interactions between lectins and glycans may lead to unraveling the mechanisms of various diseases and the development of treatments.

Guest Editor

Dr. Yuichiro Sato

Department of Medical Pharmacy, Faculty of Pharmacy, Yasuda Women's University, 6-13-1 Yasuhigashi, Asaminami, Hiroshima 731-0153, Japan

Deadline for manuscript submissions

30 December 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/232571

*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)