

Special Issue

Function and Expression of Neural Glycans

Message from the Guest Editor

We all know that over half of mammalian proteins are glycosylated. Glycans on proteins and lipids, having a wide variety of structures, play pivotal roles in various biological events. In the nervous system, structurally unique glycans (e.g., HNK-1 epitope, polysialic acid, and so on) are expressed, and a number of studies have revealed that neural glycans are critically involved in neural development, synaptic plasticity, and development and aggravation of various neural disorders. However, not all functions of these neural glycans have been clarified, and little is known about how expression of these neural glycans is regulated. In this Special Issue, we deal with various types of neural glycans which have physiological and pathological functions in the nervous system. I believe that the papers in this issue will provide readers with new insights into the mechanisms of how neural glycans function and are regulated.

Guest Editor

Dr. Yasuhiko Kizuka
Integrated Glyco-Molecular Science Center, Gifu University, Gifu, Japan

Deadline for manuscript submissions

closed (31 October 2020)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/40292

*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)* 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, and molecular biophysics. *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. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
"Jose Mataix", Biomedical Research Center, University of Granada,
Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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, CAPus / SciFinder, and other databases.

Journal Rank:

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