

## Special Issue

# Recent Advances in Carbohydrates, Glycosides, and Nucleosides for Biological and Computational Research

### Message from the Guest Editors

Carbohydrates and glycosides are naturally occurring biomolecules that play essential roles in various physiological processes. For many decades, carbohydrates have been the subject of extensive research studies because of their involvement in viral and bacterial infection processes, cell growth and proliferation, cell-cell communication, and immune responses. This Special Issue aims to provide a broad survey of the most recent advances in carbohydrates, glycosides, and nucleosides chemistry. Original research articles or reviews that discuss new synthesis, methodologies for the synthesis, biological, computational research, and their applications in different fields are welcome.

### Guest Editors

Prof. Dr. Sarkar M. Abe Kawsar

Department of Chemistry, Faculty of Science, University of Chittagong, Chittagong 4331, Bangladesh

Prof. Dr. Yasuhiro Ozeki

Graduate School of NanoBio Sciences, Yokohama City University, 22-2, Seto, Kanazawa-Ku, Yokohama 236-0027, Japan

### Deadline for manuscript submissions

closed (30 October 2023)



## Molecules

an Open Access Journal  
by MDPI

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



[mdpi.com/si/122758](https://mdpi.com/si/122758)

*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

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





# Molecules

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.6  
CiteScore 8.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

---

### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Reaxys, CaPlus / SciFinder, MarinLit, AGRIS, and other databases.

#### Journal Rank:

JCR - Q2 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).