

Special Issue

Activity and Structural Characteristics of Polysaccharides

Message from the Guest Editors

Polysaccharides are linear or branched macromolecular compounds composed of multiple monosaccharide units linked by glycosidic bonds, which can be widely found in plants, fungi, and algae. In recent years, the role of polysaccharides both in normal cellular function and in disease has attracted increasing attention, opening up a new frontier for research in the fields of food and medicine. We are putting together a Special Issue of the journal *Molecules*, entitled “Activity and structural characteristics of polysaccharides”, aiming to provide an overview of the most recent advances in the field of polysaccharide preparation techniques, characterization methods for structural and physical properties, and in-depth functional research.

Potential topics include, but are not limited to:

Advanced methods for extraction and isolation;
Advanced analytical methodologies for structure analysis;
Potential structure–bioactivity relationships;
Receptor identification and mechanism of action;
Advanced techniques for quality control.

Guest Editors

Prof. Dr. Ding-Tao Wu

Institute for Advanced Study, Chengdu University, Chengdu, China

Dr. Yong Deng

School of Pharmacy, Zunyi Medical University, Zunyi, China

Deadline for manuscript submissions

closed (31 March 2025)



Molecules

an Open Access Journal
by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed



mdpi.com/si/147561

Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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 molecular chemistry, now in its 30th 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 all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of 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 15.1 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).