

Special Issue

Bacterial Carbohydrates: Structures, Applications, and Structure/Activity Relationships

Message from the Guest Editor

The bacterial polysaccharides include cell-wall polymers, such as lipopolysaccharides (LPSs), extracellular polymers, both exopolysaccharides (EPSs) and capsular (CPSs), and intracellular polymers. The different matrices where they are embedded, like cells, growth media, biofilms and extracellular vesicles, necessitate different challenges during the purification steps. Finally, the high grade of variability about the polysaccharides primary structure makes this work tricky and fascinating. Bacterial carbohydrates polymers are involved in many cellular functions and host-interaction relationships. However, their structural determination is still a challenge for chemists.

The aim of this Special Issue is to collect, as many as possible, papers addressing the structural determination of bacterial carbohydrates polymers, together with the methodologies for their purification and structural characterization. Both reviews and original research papers are appreciated. In addition, reviews and discussion papers underlying problems and drawing future perspectives about the methodologies used for establishing carbohydrates structures/activity relationships are especially invited.

Guest Editor

Prof. Dr. Maria Michela Corsaro
Department of Chemical Science, University of Naples Federico II,
Naples, Italy

Deadline for manuscript submissions

closed (31 January 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/45009

*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)