



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

Guest Editor:

Message from the 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)

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.





an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI