

Special Issue

Polysaccharides from Africa: An Attractive Future for Biotechnology and Bioprocess Fields

Message from the Guest Editors

Polysaccharides are highly variable and complex biomolecules whose inventory of structures is still very incomplete, since Nature still preserves unexplored biotopes. This Special Issue places an emphasis regarding ethnobotanic approach associated to the structural variability of poly- and oligosaccharides, with the purpose to design the new polysaccharide-based drugs and hydrocolloids of tomorrow. Overall, the philosophy is to explore the potential of plants, macro-, and microalgae from Africa as a source of polysaccharides with original structures and, secondly, to correlate these structures with biological activities and technofunctional properties, in particular to address Biotechnology and Bioprocess fields. Making your own oligo- and/or polymers (e.g., glycosaminoglycan mimetics) via enzymatic and/or chemical approaches is included in the topics. This thematic Special Issue will also be associated to the incoming POLYSAC 2021 conference, which will be held in Tunisia, within the framework of the PHC MAGHREB Hubert Curien Project (PHC) EXPLORE 2019–2021, funded by Campus France (41423UC).

Guest Editors

Dr. Guillaume Pierre

Institut Pascal UMR CNRS 6602 Axe GePEB, Team 4Bio, Université Clermont Auvergne, 63170 Aubière, France

Dr. Cédric Delattre

1. Institut Universitaire de France (IUF), 1 rue Descartes, 75005 Paris, France

2. Clermont Auvergne INP, CNRS, Institut Pascal, Université Clermont Auvergne, 63000 Clermont-Ferrand, France

Deadline for manuscript submissions

closed (30 April 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/38057

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)