

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

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Deadline for manuscript submissions

closed (30 April 2022)



Applied Sciences

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CiteScore 5.5



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