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

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Message from the Guest Editors

Dear Colleagues,

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 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).











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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

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