



Novel Applications of Natural Polysaccharides for Pharmaceuticals

Guest Editors:

Dr. Suresh Veeraperumal

Radiation Oncology, SUNY
Upstate Medical University,
Syracuse, NY 13210, USA

Dr. Kit Leong Cheong

College of Food Science and
Technology, Guangdong Ocean
University, Zhanjiang 524088,
China

Dr. Pazhanichamy Kalailingam

Massachusetts General Hospital,
Harvard Medical School, Boston,
MA, USA

Deadline for manuscript
submissions:

closed (30 November 2023)

Message from the Guest Editors

Natural polysaccharides are important biomacromolecules that exist in almost all living forms. They have important biological functions, and are receiving increasing attention due to their extensive range of therapeutic and biological activities, including antioxidant, anticoagulant, antidiabetic, anti-tumor, immunomodulatory, antimicrobial, antiviral, and hypoglycemia activities; thus, they are one of the most promising candidates in the biomedical and pharmaceutical fields. Polysaccharides can be isolated from natural sources including algae, plants, microorganisms, and animals. However, there are limitations and challenges to these applications, including batch-to-batch variations, microbial contamination, reduced viscosity during storage, thickening, and uncontrolled rates of hydration. The high variability of polysaccharides in nature adds a new challenge to the extraction and purification of these polysaccharides. Determining and understanding polysaccharides' structural activity relationships could provide new opportunities for their pharmaceutical and biological applications.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande, Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*.

Pharmaceuticals is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

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](#), [Embase](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Pharmacology & Pharmacy*) / CiteScore - Q2 (*Pharmaceutical Science*)

Contact Us

Pharmaceuticals Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/pharmaceuticals
pharmaceuticals@mdpi.com