

Special Issue

Recent Advances in Pharmaceutical Applications of Functionalized Polysaccharides and Their Derivatives

Message from the Guest Editors

Several polysaccharides, including chitosan and alginate, have been used for a diverse range of biomedical applications due to their advantageous characteristics, such as biocompatibility, biodegradability and low immunogenicity. Such uses include tissue-engineering scaffolds, pharmaceutical preparations, drug delivery, imaging and prosthetics. Furthermore, chemical modification of materials has led to new synthetic materials capable of enhancing the physical and chemical performance of their predecessors, for example, drug loading and uptake, as well as drug targeting and improved mechanical properties. For this Special Issue, we are inviting submissions exploring novel trends and evaluations of the use of modified and non-modified polysaccharides in biomedical applications. Contributions may focus on single polymers or co-polymers and integration of active pharmaceutical ingredients into hydrogels or polysaccharide nanocarriers. Potential topics of interest include, but are not limited to, the anti-microbial activity, wound management capabilities and anti-cancer activity of these hydrogels/nanocarriers. Original research manuscripts and literature reviews are both welcome.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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Editor-in-Chief

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