



Polysaccharides and Polymers

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Message from the Guest Editors

Polysaccharides are polydisperse and consist of different molecular weight species and are also non-ideal. Nevertheless, many polysaccharides, such as β -glucans, inulin and pectins from various plants, have attracted attention because of their effects on the immune system.

Polysaccharides synthesised by bacteria are functionally different from those of higher plants. These bacterial polysaccharides secreted from the cell to form a surface layer around the organism are believed to have multiple functions. These glucans, alginate-like materials and cellulose materials are utilised in high-value applications in research, pharmaceuticals and healthcare for patients.

The aim of this Special Issue is to highlight the development of synthesis, chemical modification, bio-functionalisation, processing and characterisation of polymeric materials designed for biomedical modelling and potential combination with cells and other biologics. The idea behind this is that the polymeric structures of polysaccharides and proteins will be able to precisely mimic anatomical, biological and physiological function with the possibility of providing a level of therapeutic benefit to health.





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Message from the Editor-in-Chief

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