



Therapeutic Potential and Delivery Approaches of Algal Polysaccharides

Guest Editor:

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Message from the Guest Editor

Marine algae, unlike terrestrial plants, produce sulfated polysaccharides which are the main compounds of their extracellular matrix. For a long time, these complex sugars have been used in particular in the food industry. But these polysaccharides and their derived oligosaccharides produced by blue biotechnology also have promising biological properties such as anti-cancer, antimicrobial, anticoagulant, antioxidant, immunomodulator, etc.

Thus, in a viral pandemic context, different teams evaluated (in vitro) fucoidans extracted from *Saccharina japonica* to inhibit Covid-19. Some other studies conducted on mouse model suggest that all compounds can be used in nasal sprays, inhalers or oral doses. This is an easier way to deliver a drug, compared to the more technical intravenous injection. But the mechanisms involved have to be precisely explained and validated.

The aim of this Special Issue is to present the most recent works on the biomedical applications (including biological activities, mechanisms of action, analysis, extraction) of algal polysaccharides and their delivery approaches.





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Message from the Editor-in-Chief

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