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The present paper will review the recent progress in research on the structural chemistry and the bioactivities of these marine algal biomaterials. In particular, it will provide an update on the structural chemistry of the major sulfated polysaccharides synthesized by seaweeds including the galactans (e.g., agarans and carrageenans), ulvans, and fucans.

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Several marine biomaterials are currently being proposed for the sustained delivery of bioactive compounds, often triggered by external stimuli, which may be combined with polymeric matrices for cell culture, on the development of the so-called functional biopolymers.

## **Functional Marine Biomaterials | ScienceDirect**

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potential for an array of uses. Marine Biomaterials: Characterization, Isolation and Applications brings together the wide range of research in this important area, including the latest developments and applications, from preliminary research to clinical trials. The book is divided into four

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Marine biotechnology is a relatively new field that involves the discovery and application of products and processes derived from marine organisms. Its promising future reflects the tremendous biodiversity of the world's oceans and seas that cover more than three-quarters of the earth's surface. Most major groups of living organisms primarily or exclusively are marine, and the demands of their environment have led these organisms to evolve unique structures, metabolic pathways, reproductive ...

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## **Biomaterials from Marine Sources: BIO046B | BCC Research**

Marine biomaterials have been modified to interact with cell receptors by conjugation of the corresponding ligands to them. In particular, this strategy has extensively been applied to alginate as the negatively charged marine biomaterial in an aqueous solution state inherently lacks the cell adhesiveness.

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