

1. Record Nr.	UNINA9910598173603321
Titolo	Marine polysaccharides . Volume 2 // Paola Laurienzo, editor
Pubbl/distr/stampa	Basel : , : MDPI AG - Multidisciplinary Digital Publishing Institute, , [2018] ©2018
Descrizione fisica	1 online resource (290 pages)
Disciplina	547.782
Soggetti	Polysaccharides
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Special Issue Editor vii -- Preface to "Marine Polysaccharides" ix -- Bin Zheng, Zheng-Shun Wen, Yun-Juan Huang, Mei-Sheng Xia, Xing-Wei Xiang and You-Le Qu -- Molecular Weight-Dependent Immunostimulative Activity of Low Molecular Weight -- Chitosan via Regulating NF-B and AP-1 Signaling Pathways in RAW264.7 Macrophages doi: 10.3390/md14090169 1 -- Ning Wu, Zheng-Shun Wen, Xing-Wei Xiang, Yan-Na Huang, Yang Gao and You-Le Qu -- Immunostimulative Activity of Low Molecular Weight Chitosans in RAW264.7 Macrophages doi: 10.3390/md13106210 14 -- Rui Zhou, Xu-Yang Shi, De-Cheng Bi, Wei-Shan Fang, Gao-Bin Wei and Xu Xu Alginate-Derived Oligosaccharide Inhibits Neuroinflammation and Promotes Microglial Phagocytosis of -Amyloid doi: 10.3390/md13095828 27 -- Jatinder S. Sangha, Saveetha Kandasamy, Wajahatullah Khan, Navratan Singh Bahia, Rudra P. Singh, Alan T. Critchley and Balakrishnan Prithiviraj -Carrageenan Suppresses Tomato Chlorotic Dwarf Viroid (TCDVd) Replication and Symptom Expression in Tomatoes doi: 10.3390/md13052875 43 -- Xu Xu, De-Cheng Bi, Chao Li, Wei-Shan Fang, Rui Zhou, Shui-Ming Li, Lian-Li Chi, Min Wan and Li-Ming Shen -- Morphological and Proteomic Analyses Reveal that Unsaturated Guluronate Oligosaccharide -- Modulates Multiple Functional Pathways in Murine Macrophage RAW264.7 Cells doi: 10.3390/md13041798 57 -- Cui Hao, Lixia Gao, Yiran Zhang, Wei Wang, Guangli Yu, Huashi Guan, Lijuan Zhang and Chunxia Li --

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Sommario/riassunto

The field of marine polysaccharides is constantly evolving, due to progress in the discovery and production of new marine polysaccharides. Seaweed remains the most abundant source of polysaccharides, but recent advances in biotechnology have allowed the production of large quantities of polysaccharides from a variety of

micro-algae, by controlling growth conditions and tailoring the production of bioactive compounds in a bioreactor. Of particular interest are polysaccharides produced by micro-organisms from extreme marine environments, due to their recognized different biochemistry. Extracellular polysaccharides (EPSs) with unique properties produced by a number of micro-algae are known. The first volume is a collection of papers concerning the identification and characterization of novel marine polysaccharides. It is divided into three chapters; the first two are dedicated to polysaccharides from different marine sources (algae, micro-algae, animals), while the third one gathers information on the isolation, characterization and bioactivity of new EPSs.
