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Nota di contenuto	<p>About the Special Issue Editor -- Preface to "Marine Polysaccharides" -- Paola Laurienzo Marine Polysaccharides in Pharmaceutical Applications: An Overview doi: 10.3390/md8092435 -- Maria Filomena de Jesus Raposo, Alcina Maria Bernardo de Moraes and Rui Manuel Santos Costa de Moraes Marine Polysaccharides from Algae with Potential Biomedical Applications doi: 10.3390/md13052967 -- Matias J. Cardoso, Rui R. Costa and Joaõ F. Mano Marine Origin Polysaccharides in Drug Delivery Systems doi: 10.3390/md14020034 -- Lucas Chollet, Pierre Saboural, Cdric Chauvierre, Jean-Nol Villemin, Didier Letourneur and Frdric Chaubet Fucoïdians in Nanomedicine doi: 10.3390/md14080145 -- Janet Helen Fitton Therapies from Fucoïdan; Multifunctional Marine Polymers doi: 10.3390/md9101731 -- Randy Chi Fai Cheung, Tzi Bun Ng, Jack Ho Wong and Wai Yee Chan Chitosan: An Update on Potential Biomedical and Pharmaceutical Applications doi: 10.3390/md13085156 -- Garry Kerch The Potential of Chitosan and Its Derivatives in Prevention and Treatment of AgeRelated Diseases doi: 10.3390/md13042158 -- Emilia Szymaska and Katarzyna Winnicka Stability of Chitosan-A Challenge for Pharmaceutical and Biomedical Applications doi: 10.3390/md13041819 -- Alexa Klettner Fucoïdan as a Potential Therapeutic for Major Blinding Diseases-A Hypothesis doi: 10.3390/md14020031 -- Maria Blanco, Javier Fraguas, Carmen G. Sotelo, Ricardo I. Perez-Martn and Jos Antonio Vazquez Production of Chondroitin Sulphate from Head, Skeleton and Fins of Scyliorhinus canicula By-Products by Combination of Enzymatic, Chemical Precipitation and Ultrafiltration Methodologies doi: 10.3390</p>

/md13063287 -- Jose Antonio Vazquez, Isabel Rodriguez-Amado, Maria Ignacia Montemayor, Javier Fraguas, Maria del Pilar Gonzalez and Miguel Anxo Murado Chondroitin Sulfate, Hyaluronic Acid and Chitin/Chitosan Production Using Marine Waste Sources: Characteristics, Applications and Eco-Friendly Processes: A Review doi: 10.3390/md11030747 -- Riccardo A. A. Muzzarelli Biomedical Exploitation of Chitin and Chitosan via Mechano-Chemical Disassembly, Electrospinning, Dissolution in Imidazolium Ionic Liquids, and Supercritical Drying doi: 10.3390/md9091510 -- Nanna Rhein-Knudsen, Marcel Tutor Ale and Anne S. Meyer Seaweed Hydrocolloid Production: An Update on Enzyme Assisted Extraction and Modification Technologies doi: 10.3390/md13063340 -- Pai-An Hwang, Ming-De Yan, Hong-Ting Victor Lin, Kuan-Lun Li and Yen-Chang Lin Toxicological Evaluation of Low Molecular Weight Fucoidan in Vitro and in Vivo doi: 10.3390/md14070121 -- Shangyong Li, Linna Wang, Jianhua Hao, Mengxin Xing, Jingjing Sun and Mi Sun Purification and Characterization of a New Alginate Lyase from Marine Bacterium *Vibrio* sp. SY08 doi: 10.3390/md15010001 -- Zongrui Tong, Yu Chen, Yang Liu, Li Tong, Jiamian Chu, Kecen Xiao, Zhiyu Zhou, Wenbo Dong and Xingwu Chu Preparation, Characterization and Properties of Alginate/Poly(?-glutamic acid) Composite Microparticles doi: 10.3390/md15040091 -- Mina Mahdavi, Nafiseh Mahmoudi, Farzad Rezaei Anaran and Abdolreza Simchi Electrospinning of Nanodiamond-Modified Polysaccharide Nanofibers with PhysicoMechanical Properties Close to Natural Skins doi: 10.3390/md14070128 -- Liliana A. Caetano, Antonio J. Almeida and Lidia M.D. Goncalves Effect of Experimental Parameters on Alginate/Chitosan Microparticles for BCG Encapsulation doi: 10.3390/md14050090 -- Loredana Stabili, Roberto Schirosi, Maria Giovanna Parisi, Stefano Piraino and Matteo Cammarata -- The Mucus of *Actinia equina* (Anthozoa, Cnidaria): An Unexplored Resource for Potential Applicative Purposes doi: 10.3390/md13085276 -- Maria Cristina Straccia, Giovanna Gomez dAyala, Ida Romano, Adriana Oliva and Paola Laurienzo -- Alginate Hydrogels Coated with Chitosan for Wound Dressing doi: 10.3390/md13052890 -- Jakub Zdarta, Lukasz Klapiszewski, Marcin Wysokowski, Malgorzata Norman, Agnieszka Kolodziejczak-Radzimska, Dariusz Moszynski, Hermann Ehrlich, Hieronim Maciejewski, Allison L. Stelling and Teofil Jesionowski Chitin-Lignin Material as a Novel Matrix for Enzyme Immobilization doi: 10.3390/md13042424 -- Tomohiro Osaki, Koudai Kitahara, Yoshiharu Okamoto, Tomohiro Imagawa, Takeshi Tsuka, Yasunari Miki, Hitoshi Kawamoto, Hiroyuki Saimoto and Saburo Minami Effect of Fucoidan Extracted from Mozuku on Experimental Cartilaginous Tissue Injury doi: 10.3390/md10112560 -- Massimiliano Borgogna, Barbara Bellich and Attilio Cesaro Marine Polysaccharides in Microencapsulation and Application to Aquaculture: From Sea to Sea doi: 10.3390/md9122572 -- Marina Paolucci, Gabriella Fasulo and Maria Grazia Volpe Employment of Marine Polysaccharides to Manufacture Functional Biocomposites for Aquaculture Feeding Applications doi: 10.3390/md13052680 -- Renan Oliveira Silva, Geice Maria Pereira dos Santos, Lucas Antonio Duarte Nicolau, Larisse Tavares Lucetti, Ana Paula Macedo Santana, Luciano de Souza Chaves, Francisco Clark Nogueira Barros, Ana Lucia Ponte Freitas, Marcellus Henrique Loiola Ponte Souza and Jand-Venes Rolim Medeiros Sulfated-Polysaccharide Fraction from Red Algae *Gracilaria caudata* Protects Mice Gut Against Ethanol-Induced Damage doi: 10.3390/md9112188 -- Laurie OSullivan, Brian Murphy, Peter McLoughlin, Patrick Duggan, Peadar G. Lawlor, Helen Hughes and Gillian E. Gardiner Prebiotics from Marine Macroalgae for Human and Animal Health Applications doi: 10.3390/md8072038 -- Jadran

Faganeli, Bojana Mohar, Romina Kofol, Vesna Pavlica, Tja?sa Marin?sek, Ajda Rozman, Nives Kova ? ?c and Angela Surca Vuk Nature and Lability of Northern Adriatic Macroaggregates doi: 10.3390/md8092480 --
Miaomiao Li, Qingsen Shang, Guangsheng Li, Xin Wang and Guangli Yu Degradation of Marine Algae-Derived Carbohydrates by Bacteroidetes Isolated from Human Gut Microbiota doi: 10.3390/md15040092 --
Natasha C. Moroney, Michael N. OGrady, Sinad Lordan, Catherine Stanton and Joseph P. Kerry Seaweed Polysaccharides (Laminarin and Fucoidan) as Functional Ingredients in Pork Meat: An Evaluation of Anti-Oxidative Potential, Thermal Stability and Bioaccessibility doi: 10.3390 /md13042447.

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.
