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Nota di contenuto	Bioactive Compounds from Marine Foods; Contents; List of Contributors; 1 An Update on the Biomedical Prospects of Marine-derived Small Molecules with Fascinating Atom and Stereochemical Diversity; 1.1 Introduction; 1.1.1 Overview of known compounds, highlighting molecules of significance; 1.1.1.1 Clinical candidates and MDSM chemical probes; 1.1.2 Selected important marine sources of MDSMs; 1.1.2.1 Macroorganisms: an analysis of their critical role; 1.1.2.2 Microorganisms: questions about their being the actual source; 1.1.3 Highlights of MDSMs of therapeutic potential; 1.1.3.1 Terpene 1.1.3.2 Polyketide 1.1.3.3 Alkaloid; 1.1.3.4 Depsipeptide; 1.1.3.5 Polyketide-peptide; 1.1.4 New insights and lessons that address supply challenges; 1.2 A view based on atom diversity; 1.2.1 Terpene; 1.2.2 Polyketide; 1.2.3 Alkaloid; 1.2.4 Depsipeptide; 1.2.5 Polyketide-peptide; 1.3 A view based on stereochemical diversity; 1.3.1 Terpene; 1.3.2 Polyketide; 1.3.3 Alkaloid; 1.3.4 Depsipeptide; 1.3.5 Polyketide-peptide; 1.4 Case studies of chemical probes and chemical probes in

the therapeutic discovery pipeline; 1.5 Conclusion; Acknowledgments; References

2 Antihypertensive Peptides from Marine Sources 2.1 Introduction; 2.2 Marine antihypertensive peptides and blood pressure control; 2.3 Generation of marine antihypertensive peptides; 2.4 Structure-activity relationships; 2.5 Bioavailability; 2.6 In vivo animal studies; 2.7 In vivo human studies; 2.8 Marine peptides as antihypertensive ingredients; 2.9 Conclusion; Acknowledgments; References; 3 Bioactive Peptides from Marine Processing Byproducts; 3.1 Introduction; 3.2 Fish muscle proteins: precursors of fish bioactive peptides; 3.3 Fish meal production; 3.4 Fish silage production

3.5 Traditional fermented fish protein products 3.6 Strategies for the generation of bioactive peptides from marine byproducts; 3.6.1 Marine-derived peptides and human health; 3.6.1.1 Marine-derived peptides in the physiological control and maintenance of blood pressure: renin and ACE-I; 3.6.1.2 Antimicrobial peptides from marine sources and byproducts; 3.6.1.3 Antioxidant peptides from marine byproducts; 3.6.2 Membrane processing and the future for marine-derived bioactive peptide products; 3.7 Conclusion; Acknowledgments; References; 4 Development of Marine Peptides as Anticancer Agents 4.1 Introduction 4.2 Peptides that induce apoptosis; 4.2.1 Peptides that activate the intrinsic mitochondrial pathway; 4.2.2 Peptides that target the JNK or p38 MAPK pathways; 4.2.3 Marine peptides that target the PI3K/AKT pathway; 4.2.4 Peptides without a known mechanism for their apoptosis-inducing activity; 4.3 Peptides that affect the tubulin-microtubule equilibrium; 4.4 Peptides that inhibit angiogenesis; 4.5 Peptides without a known mechanism for their antitumor activity; 4.6 Conclusion; Acknowledgments; References; 5 Using Marine Cryptides against Metabolic Syndrome

5.1 Marine cryptides

Sommario/riassunto

Part of the IFT Press series, this book reviews the myriad published information on bioactive components derived from marine foods, enabling researchers and product developers to select appropriate functional ingredients for new products. Chapters cover foods and food ingredients from both animal and plant marine sources, focusing on those which demonstrate biological properties and whose constituent compounds have been isolated and identified as potentially active. This book further addresses the biological activities of PUFAs (Polyunsaturated fatty acids), oils, phospholipids,
